

# SAFETY DATA SHEET

#### 1. Identification

Product identifier Attack!® 2000 (No Odor)

Other means of identification

Product code 0302813 Sold as Item #S-8338

**Recommended use** Solvent **Recommended restrictions** None known.

**Manufacturer information** Quest Safety Products Inc.

1414 S. West Street, Suite #200

Indianapolis, IN 46225

**United States** 

Information (800) 878-4872 Emergency (317) 781-4400

# 2. Hazard(s) identification

**Physical hazards** Not classified.

**Health hazards** Acute toxicity, oral Category 4

Skin corrosion/irritation Category 2
Serious eye damage/eye irritation Category 2A

Specific target organ toxicity, single exposure Category 3 narcotic effects

**Environmental hazards** Not classified. **OSHA defined hazards** Not classified.

**Label elements** 



Signal word Warning

**Hazard statement** 

H302 Harmful if swallowed.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.

#### **Precautionary statement**

#### **Prevention**

P262 Avoid eyes contact.

P262 Avoid prolonged skin contact.
P261 Avoid breathing mist or vapor.
P264 Wash thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.
P271 Use only outdoors or in a well-ventilated area.

P280 Wear eye protection/face protection.

P280 Wear protective gloves.

Response

Material name: S-8338 Solvent Blend

P301 + P310 If swallowed: call a poison center or a doctor.

P330 Rinse mouth.

P331 Do NOT induce vomiting.

P302 + P350 If on skin: Wash with plenty of water.

P332 + P313 If skin irritation occurs: Get medical advice/attention.
P362 Take off contaminated clothing and wash before reuse.

P304 + P340 If inhaled: Remove person to fresh air and keep comfortable for breathing

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Product: Attack!® 2000 (No Odor) Emergency Phone: 317-781-4400

P312 Call a poison center/doctor if you feel unwell.

P305 + P351 + P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and

easy to do. Continue rinsing.

P337 + P313 If eye irritation persists: Get medical advice/attention.

Storage

Store in a well-ventilated place. Keep container tightly closed P403 + P233

**Disposal** 

Dispose of contents/container in accordance with local/regional/national/international regulations. P501

# 3. Composition/information on ingredients

#### **Mixtures**

Chemical name	Common name and synonyms	CAS number	%
Petroleum Distillates, Hydrotreated Light	1	64742-47-8	70-90
2-(2-Butoxyethoxy) Ethanol		112-34-5	10-30
Non-hazardous components.			0.1-10

## 4. First-aid measures

Inhalation Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON

CENTER or doctor/physician if you feel unwell.

Remove contaminated clothing. Wash with plenty of soap and water. If skin irritation occurs: Get Skin contact

medical advice/attention. Wash contaminated clothing before reuse.

**Eye contact** Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

Rinse mouth. Do not induce vomiting without advice from poison control center. If vomiting occurs, **Ingestion** 

keep head low so that stomach content doesn't get into the lungs. Get medical advice/attention if

you feel unwell.

Indication of immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. Keep victim warm. Keep victim

under observation. Symptoms may be delayed.

**General information** Ensure that medical personnel are aware of the material(s) involved, and take precautions to

protect themselves. Show this safety data sheet to the doctor in attendance.

# 5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing

media

Alcohol resistant foam. Powder. Dry chemicals. Carbon dioxide (CO2).

Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from

the chemical

During fire, gases hazardous to health may be formed.

and precautions for firefighters

**Special protective equipment** Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire fighting

equipment/instructions

Cool containers exposed to heat with water spray and remove container, if no risk is involved.

**Specific methods** 

Use standard firefighting procedures and consider the hazards of other involved materials.

**General fire hazards** Combustible. No unusual fire or explosion hazards noted.

# 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Avoid breathing mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

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Product: Attack!® 2000 (No Odor) Emergency Phone: 317-781-4400 Methods and materials for containment and cleaning up

Use water spray to reduce vapors or divert vapor cloud drift. This product is miscible in water.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

**Environmental precautions** 

Avoid discharge into drains, water courses or onto the ground.

# 7. Handling and storage

Precautions for safe handling

Do not taste or swallow. Avoid breathing mist or vapor. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated contact with skin. Avoid prolonged exposure. When using, do not eat, drink or smoke. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Store locked up. Keep away from heat and sources of ignition. Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

# 8. Exposure controls/personal protection

# **Occupational exposure limits**

#### **US. ACGIH Threshold Limit Values**

Components	Туре	Value	Form
2-(2-Butoxyethoxy) Ethanol (CAS 112-34-5)	TWA	10 ppm	Inhalable fraction and vapor.
US. NIOSH: Pocket Guide to Che Components	emical Hazards Type	Value	
Petroleum Distillates, Hydrotreated Light (CAS 64742-47-8)	TWA	100 mg/m3	

# Biological limit values

No biological exposure limits noted for the ingredient(s).

Appropriate engineering controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.

#### Individual protection measures, such as personal protective equipment

**Eye/face protection** Face shield is recommended. Wear safety glasses with side shields (or goggles).

Skin protection

**Hand protection** Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove

supplier.

**Other** Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.

**Respiratory protection** In case of insufficient ventilation, wear suitable respiratory equipment. Chemical respirator with

organic vapor cartridge.

General hygiene considerations

Keep away from food and drink. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

#### 9. Physical and chemical properties

Appearance Clear.
Physical state Liquid.
Form Liquid.
Color Colorless.
Odor Typical Solvent.
pH Not available.

Product: Attack!® 2000 (No Odor)

Material name: S-8338 Solvent Blend sps us

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Melting point/freezing point Not determined

Initial boiling point and

boiling range

429.8 °F (221 °C) estimated

Flash point 204.8 °F (96.0 °C) Lowest Flashing component

**Evaporation rate** < 1 (BuAc = 1)Upper/lower flammability or explosive limits Flammability limit - lower 0.6 % estimated

(%)

Flammability limit -

24.6 % estimated

upper (%)

Vapor pressure 

Vapor density > 1 (Air = 1)

Solubility(ies)

Solubility (water) Emulsifiable. **Auto-ignition temperature** Not determined

Other information

Pounds per gallon 6.966 lb/gal

Specific gravity 0.836

......JC7'fK Y][\hi Ł 95 % (approx)

# 10. Stability and reactivity

Reactivity The product is stable and non-reactive under normal conditions of use, storage and transport

**Chemical stability** Material is stable under normal conditions. Stable under normal conditions.

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

**Conditions to avoid** Suitable precautions should be utilized if using this product at temperatures above the flash point.

Contact with incompatible materials.

**Incompatible materials** Strong oxidizing agents.

**Hazardous decomposition** 

products

No hazardous decomposition products are known.

# 11. Toxicological information

#### Information on likely routes of exposure

Inhalation May cause drowsiness and dizziness. Headache. Nausea, vomiting. Prolonged inhalation may be

harmful.

Skin contact Causes skin irritation.

**Eye contact** Causes serious eye irritation.

**Ingestion** Harmful if swallowed.

Symptoms related to the physical, chemical and toxicological characteristics May cause drowsiness and dizziness. Headache. Nausea, vomiting. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause

redness and pain.

# Information on toxicological effects

**Acute toxicity** In high concentrations, vapors are anesthetic and may cause headache, fatique, dizziness and

central nervous system effects. Harmful if swallowed. Narcotic effects.

Components **Species** Test Results

2-(2-Butoxyethoxy) Ethanol (CAS 112-34-5)

Product: Attack!® 2000 (No Odor)

**Acute Dermal** 

Material name: S-8338 Solvent Blend

**LD50** Rabbit 2700 mg/kg

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SDS US

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Components Species		Test Results	
Oral			
LD50	Guinea pig	2000 mg/kg	
	Mouse	2400 mg/kg	
	Rabbit	2200 mg/kg	
	Rat	4500 mg/kg	

<sup>\*</sup> Estimates for product may be based on additional component data not shown.

**Skin corrosion/irritation** Causes skin irritation.

Serious eye damage/eye

Causes serious eye irritation.

irritation

Respiratory or skin sensitization

**Respiratory sensitization** Not a respiratory sensitizer.

**Skin sensitization** This product is not expected to cause skin sensitization.

**Germ cell mutagenicity** No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

**Carcinogenicity** This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

## IARC Monographs. Overall Evaluation of Carcinogenicity

Not listed.

**US. National Toxicology Program (NTP) Report on Carcinogens** 

Not listed.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

**Reproductive toxicity**This product is not expected to cause reproductive or developmental effects

Specific target organ toxicity

- single exposure

May cause drowsiness and dizziness.

**Specific target organ toxicity** 

- repeated exposure

Not classified.

**Aspiration hazard** Not an aspiration hazard.

**Chronic effects** Prolonged inhalation may be harmful.

# 12. Ecological information

**Ecotoxicity**The product is not classified as environmentally hazardous. However, this does not exclude the

possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Components Species Test Results

2-(2-Butoxyethoxy) Ethanol (CAS 112-34-5)

**Aquatic** 

Fish LC50 Bluegill (Lepomis macrochirus) 1300 mg/l, 96 hours

Petroleum Distillates, Hydrotreated Light (CAS 64742-47-8)

**Aquatic** 

Fish LC50 Rainbow trout, donaldson trout 2.9 mg/l, 96 hours

(Oncorhynchus mykiss)

**Persistence and degradability** No data is available on the degradability of this product.

**Bioaccumulative potential** 

Partition coefficient n-octanol / water (log Kow)

2-(2-Butoxyethoxy) Ethanol 0.5, Estimated.

1

**Mobility in soil** No data available.

**Other adverse effects**No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

potential, endocrine disruption, global warming potential) are expected from this component.

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<sup>\*</sup> Estimates for product may be based on additional component data not shown.

# 13. Disposal considerations

**Disposal instructions**Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of

contents/container in accordance with local/regional/national/international regulations.

**Local disposal regulations** Dispose in accordance with all applicable regulations.

Waste from residues / unused products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal

instructions).

**Contaminated packaging** Since emptied containers may retain product residue, follow label warnings even after container is

emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal.

# 14. Transport information

DOT NON-BULK # 61 @?. "

Not DOT regulated material.

# 15. Regulatory information

**US federal regulations**This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard

29 CFR 1910.1200.

**CERCLA Hazardous Substance List (40 CFR 302.4)** 

2-(2-Butoxyethoxy) Ethanol (CAS 112-34-5) Listed.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

**Hazard categories** Immediate Hazard - Yes

Delayed Hazard - Yes Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

**SARA 302 Extremely hazardous substance** 

Not listed.

**SARA 311/312** Yes

**Hazardous chemical** 

SARA 313 (TRI reporting)

Chemical name	CAS number	% by wt.	
2-(2-Butoxyethoxy) Ethanol	112-34-5	10-30	

#### Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

2-(2-Butoxyethoxy) Ethanol (CAS 112-34-5)

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act Not regulated.

(SDWA)

**US state regulations** 

**US - New Jersey RTK - Substances: Listed substance** 

2-(2-Butoxyethoxy) Ethanol (CAS 112-34-5)

US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)

Not listed.

Material name: S-8338 Solvent Blend

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))

2-(2-Butoxyethoxy) Ethanol (CAS 112-34-5)

Petroleum Distillates, Hydrotreated Light (CAS 64742-47-8)

**US. Massachusetts RTK - Substance List** 

Petroleum Distillates, Hydrotreated Light (CAS 64742-47-8)

**US. New Jersey Worker and Community Right-to-Know Act** 

2-(2-Butoxyethoxy) Ethanol (CAS 112-34-5)

Petroleum Distillates, Hydrotreated Light (CAS 64742-47-8)

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SDS US

## **US. Pennsylvania RTK - Hazardous Substances**

2-(2-Butoxyethoxy) Ethanol (CAS 112-34-5)

Petroleum Distillates, Hydrotreated Light (CAS 64742-47-8)

#### **US. Pennsylvania Worker and Community Right-to-Know Law**

2-(2-Butoxyethoxy) Ethanol (CAS 112-34-5)

Petroleum Distillates, Hydrotreated Light (CAS 64742-47-8)

#### **US. Rhode Island RTK**

2-(2-Butoxyethoxy) Ethanol (CAS 112-34-5)

#### **US. California Proposition 65**

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

# **International Inventories**

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

<sup>\*</sup>A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

# 16. Other information, including date of preparation or last revision

**Issue date** 11-13-2014 **Revision date** 09-27-2016

Version # 02

Material name: S-8338 Solvent Blend

**Disclaimer** Superior Oil Company, Inc. cannot anticipate all conditions under which this information and its

product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. This information is based on data available to us and is accurate and reliable to the best of our knowledge at the time of printing. However, no warranty is expressed or implied regarding the accuracy or completeness of the information contained herein. Final determination of the suitability of this material for the use contemplated is the sole responsibility of the user. Buyer assumes all risk and liabilities. Buyer

accepts and uses this material on these conditions.

**Revision information**This document has undergone significant changes and should be reviewed in its entirety.

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Product: Attack!® 2000 (No Odor) Emergency Phone: 317-781-4400



# SAFETY DATA SHEET

## 1. Identification

Attack!® Low Odor **Product identifier** 

Other means of identification

0302673 **Sold as Item** #S-8336 **Product code** 

**Recommended use** Solvent **Recommended restrictions** None known.

Manufacturer **Ouest Safety Products Inc.** 

1414 S. West Street, Suite #200

Indianapolis, IN 46225

US

Information (800) 878-4872 Emergency (317) 781-4400

# 2. Hazard(s) identification

**Physical hazards** Flammable liquids Category 4 **Health hazards** Acute toxicity, oral Category 4 Acute toxicity, dermal Category 3

**Environmental hazards** Hazardous to the aquatic environment, acute Category 2

Hazardous to the aquatic environment,

long-term hazard

**OSHA** defined hazards Not classified.

**Label elements** 



Signal word Danger

**Hazard statement** 

Combustible liquid. H227

Cause skin and eyes irritation. H303 Harmful if swallowed. H302 Toxic in contact with skin. H311 Toxic to aquatic life. H401

Toxic to aquatic life with long lasting effects. H411

**Prevention** P262 - Avoid eyes contact.

> P262 - Avoid prolonged skin contact. P260 - Avoid breathing vapors or mist

P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P264 - Wash hands thoroughly after handling.

P270 - Do not eat, drink or smoke when using this product.

P273 - Avoid release to the environment.

P280 - Wear protective gloves/protective clothing.

P280 - Wear protective gloves/eye protection/face protection.

Response P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing. P302 + P350 - IF ON SKIN: Wash with plenty of water.

P361 + P364 - Take off immediately all contaminated clothing and wash it before reuse.

Category 2

P301 + P312 - If swallowed: Call a poison center/doctor if you feel unwell. P370 + P378 - In case of fire: Use appropriate media to extinguish.

P391 - Collect spillage.

**Storage** P403 + P235 - Store in a well-ventilated place. Keep cool.

Disposal P501 - Dispose of contents/container in accordance with local/regional/national/international

regulations.

Material name: S-8336 SDS US

2419 Version #: 01 Issue date: 11-05-2014 Product: Attack!® Low Odor

Emergency Phone: 317-781-4400

# 3. Composition/information on ingredients

#### **Mixtures**

Chemical name	Common name and synonyms	CAS number	%
Petroleum Distillates, Hydrotreated Light		64742-47-8	90-100
2-Butoxyethanol		111-76-2	0.1-10
Non-hazardous and other components	below reportable levels		0.1-10

<sup>\*</sup>Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

# 4. First-aid measures

**Inhalation** If overexposure to vapors or mist, move to fresh air. Call a physician if breathing becomes difficult.

Skin contact Take off immediately all contaminated clothing. Wash off with soap and plenty of water. Call a

POISON CENTER or doctor/physician if you feel unwell. Get medical attention if irritation develops

and persists.

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if Eye contact

present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

Rinse mouth. Do not induce vomiting without advice from poison control center. If vomiting occurs, Ingestion keep head low so that stomach content doesn't get into the lungs. IF SWALLOWED: Call a POISON

CENTER or doctor/physician if you feel unwell.

**Indication of immediate** medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. In case of shortness of breath, give oxygen. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

**General information** Take off immediately all contaminated clothing. In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated

clothing before reuse.

# 5. Fire-fighting measures

Suitable extinguishing media Alcohol resistant foam. Water fog. Dry chemical powder. Dry chemicals. Carbon dioxide (CO2).

**Unsuitable extinguishing** Do not use water jet as an extinguisher, as this will spread the fire. media

Specific hazards arising from The product is combustible, and heating may generate vapors which may form explosive vapor/aii

the chemical mixtures. During fire, gases hazardous to health may be formed.

**Special protective equipment** Self-contained breathing apparatus and full protective clothing must be worn in case of fire. and precautions for

firefighters **Fire-fighting** In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do

equipment/instructions so without risk. Cool containers exposed to heat with water spray and remove container, if no risk

**Specific methods** Use standard firefighting procedures and consider the hazards of other involved materials.

**General fire hazards** Combustible liquid.

# 6. Accidental release measures

2419 Version #: 01 Issue date: 11-05-2014

Personal precautions, protective equipment and emergency procedures

Immediately evacuate personnel to safe areas. Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. This product is miscible in water.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Use water spray to reduce vapors or divert vapor cloud drift. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

Material name: S-8336 SDS US

Product: Attack!® Low Odor Emergency Phone: 317-781-4400

#### **Environmental precautions**

Avoid release to the environment. Contact local authorities in case of spillage to drain/aquatic environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid discharge into drains, water courses or onto the ground.

# 7. Handling and storage

## **Precautions for safe handling**

Keep away from open flames, hot surfaces and sources of ignition. Do not get this material in contact with skin. Do not taste or swallow. Avoid contact with eyes. Avoid prolonged or repeated contact with skin. Avoid prolonged exposure. Avoid contact with clothing. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. When using, do not eat, drink or smoke. Wash hands thoroughly after handling. Wash contaminated clothing before reuse. Avoid release to the environment. Do not empty into drains

Conditions for safe storage, including any incompatibilities

Keep away from heat and sources of ignition. Store in original tightly closed container. Store in a cool, dry place out of direct sunlight. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS). Keep in an area equipped with sprinklers.

# 8. Exposure controls/personal protection

#### **Occupational exposure limits**

Hydrotreated Light (CAS

•		-
U.S.	- OSH	4

Components	Туре	Value	Form	
Petroleum Distillates, Hydrotreated Light (CAS 64742-47-8)	TWA	500 ppm	Vapor	
US. OSHA Table Z-1 Limits for	Air Contaminants (29 CFR 19	10.1000)		
Components	Туре	Value		
2-Butoxyethanol (CAS 111-76-2)	PEL	240 mg/m3		
•		50 ppm		
ACGIH				
Components	Туре	Value	Form	
Petroleum Distillates,	TWA	100 ppm	Vapor	

64742-47-8)		
<b>US. ACGIH Threshold Limit Values</b>		
Components	Туре	

2-Butoxyethanol (CAS TWA 20 ppm 111-76-2)

US. NIOSH: Pocket Guide to Chemical Hazards
Components

2-Butoxyethanol (CAS TWA 111-76-2)

24 mg/m3

Value

**Value** 

5 ppm

#### **Biological limit values**

<b>ACGIH</b>	<b>Biological</b>	<b>Exposure Indic</b>	es
<b>^</b>		\/- I	

Components	Value	Determinant	Specimen	Sampling Time	
2-Butoxyethanol (CAS 111-76-2)	200 mg/g	Butoxyacetic acid (BAA), with hydrolysis	Creatinine in urine	*	

<sup>\* -</sup> For sampling details, please see the source document.

# **Exposure guidelines**

**US - California OELs: Skin designation** 

2-Butoxyethanol (CAS 111-76-2) Can be absorbed through the skin.

**US - Minnesota Haz Subs: Skin designation applies** 

2-Butoxyethanol (CAS 111-76-2) Skin designation applies.

**US - Tennesse OELs: Skin designation** 

2-Butoxyethanol (CAS 111-76-2) Can be absorbed through the skin.

**US NIOSH Pocket Guide to Chemical Hazards: Skin designation** 

2-Butoxyethanol (CAS 111-76-2) Can be absorbed through the skin.

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

2-Butoxyethanol (CAS 111-76-2) Can be absorbed through the skin.

Material name: S-8336 SDS US

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**Appropriate engineering** 

controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Individual protection measures, such as personal protective equipment

**Eye/face protection** Wear eye/face protection. Wear safety glasses with side shields (or goggles).

**Hand protection** Wear protective gloves.

Skin protection

Other Wear appropriate chemical resistant clothing.

**Respiratory protection** If engineering controls do not maintain airborne concentrations below recommended exposure

limits (where applicable) or to an acceptable level (in countries where exposure limits have not

been established), an approved respirator must be worn.

**General hygiene** considerations

When using, do not eat, drink or smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

# 9. Physical and chemical properties

**Appearance** Clear. **Physical state** Liquid.

**Form** Liauid. Color Colorless. Odor Typical Solvent.

**Odor threshold** Not available. Not available. pН Melting point/freezing point N.D. estimated

Initial boiling point and

boiling range

336.2 °F (169 °C) estimated

Flash point 142.0 °F (61.1 °C) (Lowest flashing component) estimated

**Evaporation rate** < 1 (Butyl Acetate = 1)

Flammability (solid, gas) Not available. Upper/lower flammability or explosive limits Flammability limit - lower 0.8 % estimated

(%)

Flammability limit -

upper (%)

10.6 % estimated

**Explosive limit - lower** 

(%)

Not available.

**Explosive limit - upper** 

(%)

Not available.

0.69 hPa 1 hPa = 0.75006 mmHg estimatedVapor pressure

Vapor pressure temp. @ 20 Deg. C Vapor density > 1 (Air = 1)**Relative density** Not available.

Solubility(ies)

Emulsifiable. Solubility (water) **Partition coefficient** Not available.

(n-octanol/water)

**Auto-ignition temperature** N.D. estimated **Decomposition temperature** Not available. Viscosity Not available.

Other information

97.07 % estimated **Percent volatile** 

Pounds per gallon 6.77 lb/gal Specific gravity 0.81

VOC (Weight %) 97.07 % estimated

Material name: S-8336 SDS US

2419 Version #: 01 Issue date: 11-05-2014 Product: Attack!® Low Odor

# 10. Stability and reactivity

**Reactivity**The product is stable and non-reactive under normal conditions of use, storage and transport.

**Chemical stability** Stable under normal conditions.

**Possibility of hazardous** 

reactions

No hazardous reaction known under normal conditions of use.

**Conditions to avoid**Avoid heat, sparks, open flames and other ignition sources. Suitable precautions should be utilized

Strong oxidizers and strong acids.

if using this product at temperatures above the flash point. Contact with incompatible materials.

Incompatible materials

**Hazardous decomposition** 

products

No hazardous decomposition products are known if stored and applied as directed.

# 11. Toxicological information

#### Information on likely routes of exposure

**Ingestion** Harmful if swallowed.

**Inhalation** Prolonged inhalation may be harmful.

**Skin contact** Toxic in contact with skin.

2-Butoxy ethanol may be absorbed through the skin in toxic amounts if contact is repeated and

prolonged. These effects have not been observed in humans.

Eye contact

Symptoms related to the physical, chemical and toxicological characteristics

Direct contact with eyes may cause temporary irritation. Direct contact with eyes may cause temporary irritation.

# Information on toxicological effects

**Acute toxicity**Toxic in contact with skin. Harmful if swallowed. Expected to be a low hazard for usual industrial

or commercial handling by trained personnel.

Components	Species	Test Results
2-Butoxyethanol (CAS 111-7	76-2)	
Acute		
Dermal		
LD50	Rabbit	400 mg/kg
Inhalation		
LC50	Mouse	700 ppm, 7 Hours
	Rat	450 ppm, 4 Hours
Oral		
LD50	Guinea pig	1.2 g/kg
	Mouse	1.2 g/kg
	Rabbit	0.32 g/kg
	Rat	560 mg/kg
Other		
LD50	Mouse	1130 mg/kg
	Rabbit	280 mg/kg
	Rat	340 mg/kg

<sup>\*</sup> Estimates for product may be based on additional component data not shown.

**Skin corrosion/irritation** Prolonged skin contact may cause temporary irritation. **Serious eye damage/eye** Direct contact with eyes may cause temporary irritation.

irritation

Respiratory or skin sensitization

**Respiratory sensitization** Not available.

**Skin sensitization** This product is not expected to cause skin sensitization.

**Germ cell mutagenicity**No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

**Carcinogenicity** This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

Product: Attack!® Low Odor Emergency Phone: 317-781-4400

Material name: S-8336

#### IARC Monographs. Overall Evaluation of Carcinogenicity

2-Butoxyethanol (CAS 111-76-2) 3 Not classifiable as to carcinogenicity to humans.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Reproductive toxicity This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity

- single exposure

Not classified.

Specific target organ toxicity

- repeated exposure

Not classified.

**Aspiration hazard** Not available.

**Chronic effects** Prolonged inhalation may be harmful. May be harmful if absorbed through skin.

2-Butoxy ethanol may be absorbed through the skin in toxic amounts if contact is repeated and

prolonged. These effects have not been observed in humans.

# 12. Ecological information

**Ecotoxicity** Toxic to aquatic life with long lasting effects. Accumulation in aquatic organisms is expected.

(Oncorhynchus mykiss)

**Species Test Results** Components 2-Butoxyethanol (CAS 111-76-2) **Aquatic** Fish LC50 Inland silverside (Menidia beryllina) 1250 mg/l, 96 hours Petroleum Distillates, Hydrotreated Light (CAS 64742-47-8) Aquatic Fish LC50 Rainbow trout, donaldson trout 2.9 mg/l, 96 hours

**Persistence and degradability** No data is available on the degradability of this product.

**Bioaccumulative potential** No data available. Partition coefficient n-octanol / water (log Kow)

0.83 2-Butoxyethanol

Mobility in soil No data available.

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

potential, endocrine disruption, global warming potential) are expected from this component.

#### 13. Disposal considerations

**Disposal instructions** Collect and reclaim or dispose in sealed containers at licensed waste disposal site. This material and

> its container must be disposed of as hazardous waste. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international

Local disposal regulations

Dispose in accordance with all applicable regulations.

Waste from residues / unused products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal

Contaminated packaging

instructions).

Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is

emptied.

# 14. Transport information

**DOT BULK** 

**UN number** NA1993

Proper shipping name

Compounds, Cleaning Liquid (Petroleum Distillates, Ethylene Glycol Monobutyl Ether)

Combustible Liquid **Hazard class** 

**Packing group** TTT **ERG** code 128

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**DOT NON-BULK** 

Not regulated as dangerous goods.

Material name: S-8336 SDS US

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Product: Attack!® Low Odor Emergency Phone: 317-781-4400

<sup>\*</sup> Estimates for product may be based on additional component data not shown.

# 15. Regulatory information

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard,

29 CFR 1910.1200.

All components are on the U.S. EPA TSCA Inventory List.

## **CERCLA Hazardous Substance List (40 CFR 302.4)**

2-Butoxyethanol (CAS 111-76-2)

Listed.

#### US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

# Superfund Amendments and Reauthorization Act of 1986 (SARA)

**Hazard categories** Immediate Hazard - Yes

Delayed Hazard - Yes Fire Hazard - Yes Pressure Hazard - No Reactivity Hazard - No

#### SARA 302 Extremely hazardous substance

Not listed.

**SARA 311/312** Yes

**Hazardous chemical** 

## SARA 313 (TRI reporting)

Chemical name	CAS number	% by wt.	
2-Butoxyethanol	111-76-2	0.1-10	
Ethylene Glycol	107-21-1	0.1-10	

#### Other federal regulations

# Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

# Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

**Safe Drinking Water Act** 

Not regulated.

(SDWA)

#### **US state regulations**

#### **US. Massachusetts RTK - Substance List**

2-Butoxyethanol (CAS 111-76-2)

# **US. New Jersey Worker and Community Right-to-Know Act**

2-Butoxyethanol (CAS 111-76-2) 500 LBS

# **US. Pennsylvania RTK - Hazardous Substances**

2-Butoxyethanol (CAS 111-76-2)

## **US. Rhode Island RTK**

2-Butoxyethanol (CAS 111-76-2)

#### **US. California Proposition 65**

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

# **International Inventories**

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes

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Product: Attack!® Low Odor

Country(s) or region Inventory name On inventory (yes/no)\*

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

# 16. Other information, including date of preparation or last revision

**Issue date** 11-05-2014

Version # 01

**Disclaimer** This information is based on data available to us and is accurate and reliable to the best of our

knowledge at the time of printing. However, no warranty is expressed or implied regarding the accuracy or completeness of the information contained herein. Final determination of the suitability of this material for the use contemplated is the sole responsibility of the user. Buyer assumes all

risk and liabilities. Buyer accepts and uses this material on these conditions.

**Revision Information** Composition / Information on Ingredients: Disclosure Overrides

Physical & Chemical Properties: Multiple Properties

Transport Information: Material Transportation Information

Regulatory Information: United States

 Material name: S-8336
 SDS US

 2419 Version #: 01 Issue date: 11-05-2014
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Product: Attack!® Low Odor Emergency Phone: 317-781-4400



# **Safety Data Sheet**

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 28-4642-6
 Version Number:
 5.03

 Issue Date:
 08/08/19
 Supercedes Date:
 07/26/18

# **SECTION 1: Identification**

#### 1.1. Product identifier

3M(TM) Fire Block Foam FB-Foam

#### **Product Identification Numbers**

98-0400-5614-9, 98-0400-5632-1, 98-0441-1020-7 7100006734, 7010401353

# 1.2. Recommended use and restrictions on use

#### Recommended use

Sealant

1.3. Supplier's details

MANUFACTURER: 3M

**DIVISION:** Industrial Adhesives and Tapes Division **ADDRESS:** 3M Center, St. Paul, MN 55144-1000, USA

**Telephone:** 1-888-3M HELPS (1-888-364-3577)

# 1.4. Emergency telephone number

1-800-364-3577 or (651) 737-6501 (24 hours)

# **SECTION 2: Hazard identification**

#### 2.1. Hazard classification

Flammable Aerosol: Category 1. Gas Under Pressure: Liquefied gas. Acute Toxicity (inhalation): Category 4. Serious Eye Damage/Irritation: Category 2A. Skin Corrosion/Irritation: Category 2. Respiratory Sensitizer: Category 1.

Skin Sensitizer: Category 1.

Reproductive Toxicity: Lactation.

Simple Asphyxiant.

Specific Target Organ Toxicity (single exposure): Category 1. Specific Target Organ Toxicity (single exposure): Category 3. Specific Target Organ Toxicity (repeated exposure): Category 1.

#### 2.2. Label elements

#### Signal word

Danger

#### **Symbols**

Flame | Gas cylinder | Exclamation mark | Health Hazard |

# **Pictograms**



#### **Hazard Statements**

Extremely flammable aerosol.

Contains gas under pressure; may explode if heated.

Causes serious eye irritation.

Causes skin irritation.

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

May cause an allergic skin reaction.

Harmful if inhaled.

May cause drowsiness or dizziness.

May cause harm to breast-fed children.

May displace oxygen and cause rapid suffocation.

# Causes damage to organs:

cardiovascular system

Causes damage to organs through prolonged or repeated exposure:

respiratory system

## **Precautionary Statements**

#### General:

Keep out of reach of children.

#### **Prevention:**

Obtain special instructions before use.

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Do not spray on an open flame or other ignition source.

Pressurized container: Do not pierce or burn, even after use.

Do not breathe dust/fume/gas/mist/vapors/spray.

Avoid contact during pregnancy/while nursing.

Use only outdoors or in a well-ventilated area.

In case of inadequate ventilation wear respiratory protection.

Wear protective gloves and eye/face protection.

Do not eat, drink or smoke when using this product.

Wash thoroughly after handling.

Contaminated work clothing must not be allowed out of the workplace.

# **Response:**

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.

\_\_\_\_\_

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

If eye irritation persists: Get medical advice/attention. IF ON SKIN: Wash with plenty of soap and water.

If skin irritation or rash occurs: Get medical advice/attention.

Take off contaminated clothing and wash it before reuse.

IF exposed or concerned: Get medical advice/attention.

Specific treatment (see Notes to Physician on this label).

#### Storage:

Protect from sunlight. Do not expose to temperatures exceeding 50C/122F.

Keep container tightly closed.

Store locked up in a well-ventilated place.

# Disposal:

Dispose of contents/container in accordance with applicable local/regional/national/international regulations.

## Notes to Physician:

Exposure may increase myocardial irritability. Do not administer sympathomimetic drugs unless absolutely necessary.

#### **Supplemental Information:**

Persons previously sensitized to isocyanates may develop a cross-sensitization reaction to other isocyanates. Intentional concentration and inhalation may be harmful or fatal.

# **SECTION 3: Composition/information on ingredients**

Ingredient	C.A.S. No.	% by Wt
Polyol Blend (NJTS Reg. No. 04499600-7192)	Trade Secret*	40 - 70 Trade Secret *
Alkanes, C14-C17, Chloro	85535-85-9	10 - 30 Trade Secret *
Dimethyl Ether	115-10-6	5 - 10 Trade Secret *
Isobutane	75-28-5	5 - 10 Trade Secret *
4,4' Diphenylmethane diisocyante (MDI)	101-68-8	3 - 7 Trade Secret *
Higher Oligomers of MDI (pMDI)	9016-87-9	3 - 7 Trade Secret *
Propane	74-98-6	1 - 5 Trade Secret *

NJTS or NJTSRN: New Jersey Trade Secret Registry Number.

# **SECTION 4: First aid measures**

# 4.1. Description of first aid measures

#### Inhalation:

Remove person to fresh air. Get medical attention.

#### **Skin Contact:**

Immediately wash with soap and water. Remove contaminated clothing and wash before reuse. If signs/symptoms develop, get medical attention.

#### **Eye Contact:**

Immediately flush with large amounts of water. Remove contact lenses if easy to do. Continue rinsing. Get medical attention.

<sup>\*</sup>The specific chemical identity and/or exact percentage (concentration) of this composition has been withheld as a trade secret.

#### If Swallowed:

Rinse mouth. If you feel unwell, get medical attention.

#### 4.2. Most important symptoms and effects, both acute and delayed

See Section 11.1. Information on toxicological effects.

#### 4.3. Indication of any immediate medical attention and special treatment required

Exposure may increase myocardial irritability. Do not administer sympathomimetic drugs unless absolutely necessary.

# **SECTION 5: Fire-fighting measures**

#### 5.1. Suitable extinguishing media

Use a fire fighting agent suitable for the surrounding fire.

## 5.2. Special hazards arising from the substance or mixture

Closed containers exposed to heat from fire may build pressure and explode.

## **Hazardous Decomposition or By-Products**

<u>Substance</u>	<u>Condition</u>
Formaldehyde	During Combustion
Carbon monoxide	During Combustion
Carbon dioxide	During Combustion
Hydrogen Chloride	During Combustion
Hydrogen Cyanide	During Combustion
Oxides of Nitrogen	During Combustion

# 5.3. Special protective actions for fire-fighters

Water may not effectively extinguish fire; however, it should be used to keep fire-exposed containers and surfaces cool and prevent explosive rupture.

# **SECTION 6: Accidental release measures**

#### 6.1. Personal precautions, protective equipment and emergency procedures

Evacuate area. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use only non-sparking tools. Ventilate the area with fresh air. Warning! A motor could be an ignition source and could cause flammable gases or vapors in the spill area to burn or explode. Refer to other sections of this SDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment.

#### **6.2.** Environmental precautions

For larger spills, cover drains and build dikes to prevent entry into sewer systems or bodies of water.

# 6.3. Methods and material for containment and cleaning up

Contain spill. Cover spill area with a fire-extinguishing foam. An appropriate aqueous film forming foam (AFFF) is recommended. Pour isocyanate decontaminant solution (90% water, 8% concentrated ammonia, 2% detergent) on spill and allow to react for 10 minutes. Or pour water on spill and allow to react for more than 30 minutes. Cover with absorbent material. Working from around the edges of the spill inward, cover with bentonite, vermiculite, or commercially available inorganic absorbent material. Mix in sufficient absorbent until it appears dry. Remember, adding an absorbent material does not remove a physical, health, or environmental hazard. Collect as much of the spilled material as possible using non-sparking tools. Place in a container approved for transportation by appropriate authorities, but do not seal the container for 48 hours to avoid pressure build-up. Clean up residue with an appropriate solvent selected by a qualified and authorized person. Ventilate the area with fresh air. Read and follow safety precautions on the solvent label and SDS. Dispose of collected material as soon as possible in accordance with applicable local/regional/national/international regulations.

# **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

Do not use in a confined area with minimal air exchange. Keep out of reach of children. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use. Do not breathe dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or on clothing. Avoid contact during pregnancy/while nursing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Avoid contact with oxidizing agents (eg. chlorine, chromic acid etc.)

## 7.2. Conditions for safe storage including any incompatibilities

Store in a well-ventilated place. Keep container tightly closed. Protect from sunlight. Do not expose to temperatures exceeding 50C/122F. Store away from heat. Store away from acids. Store away from strong bases. Store away from oxidizing agents. Store away from amines.

# **SECTION 8: Exposure controls/personal protection**

## 8.1. Control parameters

## Occupational exposure limits

If a component is disclosed in section 3 but does not appear in the table below, an occupational exposure limit is not available for the component.

Ingredient	C.A.S. No.	Agency	Limit type	Additional Comments
4,4' Diphenylmethane diisocyante	101-68-8	ACGIH	TWA:0.005 ppm	
(MDI)				
4,4' Diphenylmethane diisocyante	101-68-8	OSHA	CEIL:0.2 mg/m3(0.02 ppm)	
(MDI)				
Dimethyl Ether	115-10-6	AIHA	TWA:1880 mg/m3(1000 ppm)	
Propane	74-98-6	ACGIH	Limit value not established:	simple asphyxiant
Propane	74-98-6	OSHA	TWA:1800 mg/m3(1000 ppm)	
Isobutane	75-28-5	ACGIH	STEL:1000 ppm	
Natural gas	75-28-5	ACGIH	Limit value not established:	simple asphyxiant

ACGIH: American Conference of Governmental Industrial Hygienists

AIHA: American Industrial Hygiene Association

CMRG: Chemical Manufacturer's Recommended Guidelines

OSHA: United States Department of Labor - Occupational Safety and Health Administration

TWA: Time-Weighted-Average STEL: Short Term Exposure Limit

CEIL: Ceiling

## 8.2. Exposure controls

#### 8.2.1. Engineering controls

Do not remain in area where available oxygen may be reduced. Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below relevant Exposure Limits and/or control dust/fume/gas/mist/vapors/spray. If ventilation is not adequate, use respiratory protection equipment.

# 8.2.2. Personal protective equipment (PPE)

# Eye/face protection

Select and use eye/face protection to prevent contact based on the results of an exposure assessment. The following eye/face protection(s) are recommended:

Full Face Shield

**Indirect Vented Goggles** 

#### Skin/hand protection

Select and use gloves and/or protective clothing approved to relevant local standards to prevent skin contact based on the results of an exposure assessment. Selection should be based on use factors such as exposure levels, concentration of the substance or mixture, frequency and duration, physical challenges such as temperature extremes, and other use conditions. Consult with your glove and/or protective clothing manufacturer for selection of appropriate compatible gloves/protective clothing. Note: Nitrile gloves may be worn over polymer laminate gloves to improve dexterity. Gloves made from the following material(s) are recommended: Fluoroelastomer Polymer laminate

If this product is used in a manner that presents a higher potential for exposure (eg. spraying, high splash potential etc.), then use of protective coveralls may be necessary. Select and use body protection to prevent contact based on the results of an exposure assessment. The following protective clothing material(s) are recommended: Apron - polymer laminate

#### **Respiratory protection**

An exposure assessment may be needed to decide if a respirator is required. If a respirator is needed, use respirators as part of a full respiratory protection program. Based on the results of the exposure assessment, select from the following respirator type(s) to reduce inhalation exposure:

Half facepiece or full facepiece air-purifying respirator suitable for organic vapors and particulates Half facepiece or full facepiece supplied-air respirator

For questions about suitability for a specific application, consult with your respirator manufacturer.

# **SECTION 9: Physical and chemical properties**

# 9.1. Information on basic physical and chemical properties

Appearance

Vapor Density

Physical state Liquid

**Color** Off-White, Yellow

OdorSlight HydrocarbonOdor thresholdNo Data AvailablepHNo Data Available

Melting point No Data Available

No Data Available

**Boiling Point** -33.3 - -11.7 °C [*Details*:Liquefied petroleum gas (hydrocarbon,

HC) components boil between -33.3 to -11.7C. Other components

boil at temperatures greater than 93.3C] **Flash Point**-156 °F [*Test Method:* Estimated]

Evaporation rateNo Data AvailableFlammability (solid, gas)Not ApplicableFlammable Limits(LEL)No Data AvailableFlammable Limits(UEL)No Data Available

**Vapor Pressure** >=345 kPa [*Details*:Contents under pressure have vapor pressure

greater than 345kPa. After release from container, the pressure is

very low.] *Not Applicable* 

**Density**1.1 g/ml **Specific Gravity**1.1 [Ref Std: WATER=1]

Solubility in Water Nil [Details: Reacts slowly with water during cure]

Solubility- non-waterNo Data AvailablePartition coefficient: n-octanol/ waterNo Data AvailableAutoignition temperatureNo Data AvailableDecomposition temperatureNo Data Available

Viscosity No Data Available

VOC Less H2O & Exempt Solvents 165 g/l

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# **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

This material may be reactive with certain agents under certain conditions - see the remaining headings in this section.

#### 10.2. Chemical stability

Stable. Do not store above 50C

## 10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

#### 10.4. Conditions to avoid

Heat

# 10.5. Incompatible materials

Alcohols
Strong bases
Amines
Strong oxidizing agents

# 10.6. Hazardous decomposition products

**Substance** 

**Condition** 

None known.

Refer to section 5.2 for hazardous decomposition products during combustion.

# **SECTION 11: Toxicological information**

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. In addition, toxicological data on ingredients may not be reflected in the material classification and/or the signs and symptoms of exposure, because an ingredient may be present below the threshold for labeling, an ingredient may not be available for exposure, or the data may not be relevant to the material as a whole.

#### 11.1. Information on Toxicological effects

Signs and Symptoms of Exposure

Based on test data and/or information on the components, this material may produce the following health effects:

# Inhalation:

Harmful if inhaled. Simple Asphyxiation: Signs/symptoms may include increased heart rate, rapid respirations, drowsiness, headache, incoordination, altered judgement, nausea, vomiting, lethargy, seizures, coma, and may be fatal.

Respiratory Tract Irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.

Allergic Respiratory Reaction: Signs/symptoms may include difficulty breathing, wheezing, cough, and tightness of chest.

May cause additional health effects (see below).

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#### **Skin Contact:**

Skin Irritation: Signs/symptoms may include localized redness, swelling, itching, dryness, cracking, blistering, and pain. Allergic Skin Reaction (non-photo induced): Signs/symptoms may include redness, swelling, blistering, and itching.

#### **Eye Contact:**

Severe Eye Irritation: Signs/symptoms may include significant redness, swelling, pain, tearing, cloudy appearance of the cornea, and impaired vision.

# **Ingestion:**

Gastrointestinal Irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea.

May cause additional health effects (see below).

#### **Additional Health Effects:**

## Single exposure may cause target organ effects:

Central Nervous System (CNS) Depression: Signs/symptoms may include headache, dizziness, drowsiness, incoordination, nausea, slowed reaction time, slurred speech, giddiness, and unconsciousness.

Single exposure, above recommended guidelines, may cause:

Cardiac Sensitization: Signs/symptoms may include irregular heartbeat (arrhythmia), faintness, chest pain, and may be fatal.

# Prolonged or repeated exposure may cause target organ effects:

Respiratory Effects: Signs/symptoms may include cough, shortness of breath, chest tightness, wheezing, increased heart rate, bluish colored skin (cyanosis), sputum production, changes in lung function tests, and/or respiratory failure.

# Reproductive/Developmental Toxicity:

Contains a chemical or chemicals which may interfere with lactation or be harmful to breastfed children.

# **Additional Information:**

Persons previously sensitized to isocyanates may develop a cross-sensitization reaction to other isocyanates.

#### **Toxicological Data**

If a component is disclosed in section 3 but does not appear in a table below, either no data are available for that endpoint or the data are not sufficient for classification.

#### **Acute Toxicity**

Name	Route	Species	Value
Overall product	Inhalation- Dust/Mist(4 hr)		No data available; calculated ATE1 - 5 mg/l
Overall product	Ingestion		No data available; calculated ATE >5,000 mg/kg
Alkanes, C14-C17, Chloro	Dermal		estimated to be > 5,000 mg/kg
Alkanes, C14-C17, Chloro	Inhalation- Dust/Mist		estimated to be > 12.5 mg/l
Alkanes, C14-C17, Chloro	Inhalation- Vapor		estimated to be > 50 mg/l
Alkanes, C14-C17, Chloro	Ingestion		estimated to be > 5,000 mg/kg
Isobutane	Inhalation- Gas (4 hours)	Rat	LC50 276,000 ppm
Dimethyl Ether	Inhalation- Gas (4 hours)	Rat	LC50 164,000 ppm
Propane	Inhalation- Gas (4 hours)	Rat	LC50 > 200,000 ppm

ΛQ	/08	/1	a
บช	/U8	/ I	y

4,4' Diphenylmethane diisocyante (MDI)	Dermal	Rabbit	LD50 > 5,000 mg/kg
Higher Oligomers of MDI (pMDI)	Dermal	Rabbit	LD50 > 5,000 mg/kg
4,4' Diphenylmethane diisocyante (MDI)	Inhalation-	Rat	LC50 0.368 mg/l
	Dust/Mist		
	(4 hours)		
4,4' Diphenylmethane diisocyante (MDI)	Ingestion	Rat	LD50 31,600 mg/kg
Higher Oligomers of MDI (pMDI)	Inhalation-	Rat	LC50 0.368 mg/l
	Dust/Mist		
	(4 hours)		
Higher Oligomers of MDI (pMDI)	Ingestion	Rat	LD50 31,600 mg/kg

ATE = acute toxicity estimate

# Skin Corrosion/Irritation

Name	Species	Value
Isobutane	Professio	No significant irritation
	nal	
	judgeme	
	nt	
Propane	Rabbit	Minimal irritation
4,4' Diphenylmethane diisocyante (MDI)	official	Irritant
	classifica	
	tion	
Higher Oligomers of MDI (pMDI)	official	Irritant
	classifica	
	tion	

**Serious Eye Damage/Irritation** 

Name	Species	Value
Isobutane	Professio	No significant irritation
	nal	
	judgeme	
	nt	
Propane	Rabbit	Mild irritant
4,4' Diphenylmethane diisocyante (MDI)	official	Severe irritant
	classifica	
	tion	
Higher Oligomers of MDI (pMDI)	official	Severe irritant
- ,	classifica	
	tion	

# Skin Sensitization

Name	Species	Value
4,4' Diphenylmethane diisocyante (MDI)	official	Sensitizing
	classifica	
	tion	
Higher Oligomers of MDI (pMDI)	official	Sensitizing
	classifica	
	tion	

**Respiratory Sensitization** 

respiratory Schsitization		
Name	Species	Value
4,4' Diphenylmethane diisocyante (MDI)	Human	Sensitizing
Higher Oligomers of MDI (pMDI)	Human	Sensitizing

**Germ Cell Mutagenicity** 

Name	Route	Value
Isobutane	In Vitro	Not mutagenic
Dimethyl Ether	In Vitro	Not mutagenic
Dimethyl Ether	In vivo	Not mutagenic

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Propane	In Vitro	Not mutagenic
4,4' Diphenylmethane diisocyante (MDI)	In Vitro	Some positive data exist, but the data are not
		sufficient for classification
Higher Oligomers of MDI (pMDI)	In Vitro	Some positive data exist, but the data are not
		sufficient for classification

Carcinogenicity

Name	Route	Species	Value
Dimethyl Ether	Inhalation	Rat	Not carcinogenic
4,4' Diphenylmethane diisocyante (MDI)	Inhalation	Rat	Some positive data exist, but the data are not sufficient for classification
Higher Oligomers of MDI (pMDI)	Inhalation	Rat	Some positive data exist, but the data are not sufficient for classification

# **Reproductive Toxicity**

Reproductive and/or Developmental Effects

Name	Route	Value	Species	Test Result	Exposure Duration
Dimethyl Ether	Inhalation	Not classified for development	Rat	NOAEL 40,000 ppm	during organogenesi s
4,4' Diphenylmethane diisocyante (MDI)	Inhalation	Not classified for development	Rat	NOAEL 0.004 mg/l	during organogenesi s
Higher Oligomers of MDI (pMDI)	Inhalation	Not classified for development	Rat	NOAEL 0.004 mg/l	during organogenesi s

# Target Organ(s)

**Specific Target Organ Toxicity - single exposure** 

Name	Route	Target Organ(s)	Value	Species	Test Result	Exposure Duration
Isobutane	Inhalation	cardiac sensitization	Causes damage to organs	Multiple animal species	NOAEL Not available	
Isobutane	Inhalation	central nervous system depression	May cause drowsiness or dizziness	Human and animal	NOAEL Not available	
Isobutane	Inhalation	respiratory irritation	Not classified	Mouse	NOAEL Not available	
Dimethyl Ether	Inhalation	central nervous system depression	May cause drowsiness or dizziness	Rat	LOAEL 10,000 ppm	30 minutes
Dimethyl Ether	Inhalation	cardiac sensitization	Some positive data exist, but the data are not sufficient for classification	Dog	NOAEL 100,000 ppm	5 minutes
Propane	Inhalation	cardiac sensitization	Causes damage to organs	Human	NOAEL Not available	
Propane	Inhalation	central nervous system depression	May cause drowsiness or dizziness	Human	NOAEL Not available	
Propane	Inhalation	respiratory irritation	Not classified	Human	NOAEL Not available	
4,4' Diphenylmethane diisocyante (MDI)	Inhalation	respiratory irritation	May cause respiratory irritation	official classifica tion	NOAEL Not available	
Higher Oligomers of MDI (pMDI)	Inhalation	respiratory irritation	May cause respiratory irritation	official classifica tion	NOAEL Not available	

Specific Target Organ Toxicity - repeated exposure

Specific runger organ	10111111	epenten enposure				
Name	Route	Target Organ(s)	Value	Species	Test Result	Exposure Duration
Isobutane	Inhalation	kidney and/or	Not classified	Rat	NOAEL	13 weeks

		bladder			4,500 ppm	
Dimethyl Ether	Inhalation	hematopoietic	Not classified	Rat	NOAEL	2 years
		system			25,000 ppm	
Dimethyl Ether	Inhalation	liver	Not classified	Rat	NOAEL	30 weeks
					20,000 ppm	
4,4' Diphenylmethane	Inhalation	respiratory system	Causes damage to organs through	Rat	LOAEL	13 weeks
diisocyante (MDI)			prolonged or repeated exposure		0.004 mg/l	
Higher Oligomers of MDI	Inhalation	respiratory system	Causes damage to organs through	Rat	LOAEL	13 weeks
(pMDI)			prolonged or repeated exposure		0.004 mg/l	

#### **Aspiration Hazard**

For the component/components, either no data are currently available or the data are not sufficient for classification.

Please contact the address or phone number listed on the first page of the SDS for additional toxicological information on this material and/or its components.

# **SECTION 12: Ecological information**

#### **Ecotoxicological information**

Please contact the address or phone number listed on the first page of the SDS for additional ecotoxicological information on this material and/or its components.

#### **Chemical fate information**

Please contact the address or phone number listed on the first page of the SDS for additional chemical fate information on this material and/or its components.

# **SECTION 13: Disposal considerations**

#### 13.1. Disposal methods

Dispose of contents/ container in accordance with the local/regional/national/international regulations.

Dispose of waste product in a permitted industrial waste facility. As a disposal alternative, incinerate in a permitted waste incineration facility. Facility must be capable of handling aerosol cans. Combustion products will include halogen acid (HCl/HF/HBr). Facility must be capable of handling halogenated materials. Empty drums/barrels/containers used for transporting and handling hazardous chemicals (chemical substances/mixtures/preparations classified as Hazardous as per applicable regulations) shall be considered, stored, treated & disposed of as hazardous wastes unless otherwise defined by applicable waste regulations. Consult with the respective regulating authorities to determine the available treatment and disposal facilities.

EPA Hazardous Waste Number (RCRA): D001 (Ignitable)

# **SECTION 14: Transport Information**

For Transport Information, please visit http://3M.com/Transportinfo or call 1-800-364-3577 or 651-737-6501

# **SECTION 15: Regulatory information**

## 15.1. US Federal Regulations

Contact 3M for more information.

# **EPCRA 311/312 Hazard Classifications:**

Physical Hazards

3M(TM) Fire Block Foam FB-Foam

08/08/19

Flammable (gases, aerosols, liquids, or solids)
Gas under pressure

# Health Hazards Acute toxicity Reproductive toxicity Respiratory or Skin Sensitization Serious eye damage or eye irritation Simple Asphyxiant Skin Corrosion or Irritation Specific target organ toxicity (single or repeated exposure)

#### Section 313 Toxic Chemicals subject to the reporting requirements of that section and 40 CFR part 372 (EPCRA):

Ingredient	C.A.S. No	% by Wt		
4,4' Diphenylmethane diisocyante (MDI)	101-68-8	Trade Secret	3 -	7
4,4' Diphenylmethane diisocyante (MDI) (Benzene,	101-68-8	3 - 7		
1,1'-methylenebis[4-isocyanato-)				
4,4' Diphenylmethane diisocyante (MDI)	101-68-8	3 - 7		
(DIISOCYANATES (CERTAIN CHEMICALS				
ONLY))				
Higher Oligomers of MDI (pMDI)	9016-87-9	Trade Secret	3 -	7
Higher Oligomers of MDI (pMDI)	9016-87-9	3 - 7		
(DIISOCYANATES (CERTAIN CHEMICALS				
ONLY))				

This material contains a chemical which requires export notification under TSCA Section 12[b]:

<b>Ingredient (Category if applicable)</b>	C.A.S. No	<b>Regulation</b>	<b>Status</b>
Alkanes, C14-C17, Chloro	85535-85-9	Toxic Substances Control Act (TSCA) 5	Applicable
		SNUR or Consent Order Chemicals	

This material contains a chemical subject to a proposed EPA Significant New Use Rule (TSCA Section 5)

<u>Ingredient (Category if applicable)</u>	<u>C.A.S. No</u>	Reference
Alkanes, C14-C17, Chloro	85535-85-9	40 CFR 721.11076

# 15.2. State Regulations

Contact 3M for more information.

## 15.3. Chemical Inventories

The components of this material are in compliance with the provisions of Australia National Industrial Chemical Notification and Assessment Scheme (NICNAS). Certain restrictions may apply. Contact the selling division for additional information.

The components of this product are in compliance with the new substance notification requirements of CEPA.

The components of this product are in compliance with the chemical notification requirements of TSCA. All required components of this product are listed on the active portion of the TSCA Inventory.

Contact 3M for more information.

# 15.4. International Regulations

Contact 3M for more information.

This SDS has been prepared to meet the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200.

# **SECTION 16: Other information**

NFPA Hazard Classification

Health: 2 Flammability: 4 Instability: 1 Special Hazards: None

National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency response personnel to address the hazards that are presented by short-term, acute exposure to a material under conditions of fire, spill, or similar emergencies. Hazard ratings are primarily based on the inherent physical and toxic properties of the material but also include the toxic properties of combustion or decomposition products that are known to be generated in significant quantities.

 Document Group:
 28-4642-6
 Version Number:
 5.03

 Issue Date:
 08/08/19
 Supercedes Date:
 07/26/18

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# Fiberlock IAQ 8500 Duct Sealer Black 8385

# **ICP Building Solutions Group**

Version No: **6.8**Safety Data Sheet according to OSHA HazCom Standard (2012) requirements

Issue Date: **02/03/2020** Print Date: **02/03/2020** S.GHS.USA.EN

#### **SECTION 1 IDENTIFICATION**

#### **Product Identifier**

Product name	Fiberlock IAQ 8500 Duct Sealer Black 8385
Synonyms	Not Available
Other means of identification	Not Available

#### Recommended use of the chemical and restrictions on use

#### Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party

Registered company name	ICP Building Solutions Group
Address	150 Dascomb Road Andover MA United States
Telephone	1-978-623-9980
Fax	Not Available
Website	http://www.icpgroup.com
Email	Not Available

#### **Emergency phone number**

=g, p	
Association / Organisation	ChemTel
Emergency telephone numbers	800-255-3924
Other emergency telephone numbers	Not Available

#### **SECTION 2 HAZARD(S) IDENTIFICATION**

#### Classification of the substance or mixture

#### NFPA 704 diamond



Note: The hazard category numbers found in GHS classification in section 2 of this SDSs are NOT to be used to fill in the NFPA 704 diamond. Blue = Health Red = Fire Yellow = Reactivity White = Special (Oxidizer or water reactive substances)

Classification

Eye Irritation Category 2A, Chronic Aquatic Hazard Category 2, Specific target organ toxicity - repeated exposure Category 2, Acute Aquatic Hazard Category 3, Acute Toxicity (Inhalation) Category 4, Carcinogenicity Category 1A, Skin Sensitizer Category 1

#### Label elements

Hazard pictogram(s)







SIGNAL WORD DANGER

# Hazard statement(s)

······································	
H319	Causes serious eye irritation.
H411	Toxic to aquatic life with long lasting effects.
H373 May cause damage to organs through prolonged or repeated exposure.	
H402	Harmful to aquatic life.
H332	Harmful if inhaled.

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#### Fiberlock IAQ 8500 Duct Sealer Black 8385

H350	May cause cancer.
H317	May cause an allergic skin reaction.

# Hazard(s) not otherwise classified

Not Applicable

# Precautionary statement(s) General

P101	01 If medical advice is needed, have product container or label at hand.	
P102	Keep out of reach of children.	

#### Precautionary statement(s) Prevention

P201	Obtain special instructions before use.	
P260	Do not breathe mist/vapours/spray.	

# Precautionary statement(s) Response

P308+P313	IF exposed or concerned: Get medical advice/attention.
P321	Specific treatment (see advice on this label).

# Precautionary statement(s) Storage

P405	Store locked up.

#### Precautionary statement(s) Disposal

Dispose of contents/container to authorised hazardous or special waste collection point in accordance with any local regulation.

# **SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS**

#### Substances

See section below for composition of Mixtures

#### Mixtures

CAS No	%[weight]	Name
1314-13-2	2.08-5.08	<u>zinc oxide</u>
56709-13-8	0.2	azadioxabicyclooctane, isomer 1
7320-34-5	0.1	potassium pyrophosphate
124-68-5	>0.81	<u>monoisobutanolamine</u>
27646-80-6	<0.06	2-(methylamino)-2-methyl-1-propanol
471-34-1	9.31	calcium carbonate
14808-60-7	0.04	silica crystalline - quartz
1332-58-7	9.4	kaolin
57-55-6	1.14-1.2	propylene glycol
7631-86-9	not spec	silica amorphous
1897-45-6	0.48	chlorothalonil
Not Available	1.4	Non-hazardous ingredient
1333-86-4	2.5	carbon black

# **SECTION 4 FIRST-AID MEASURES**

# Description of first aid measures

Eye Contact	If this product comes in contact with the eyes:  Wash out immediately with fresh running water.  Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids.  Seek medical attention without delay; if pain persists or recurs seek medical attention.  Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.
Skin Contact	If skin contact occurs:  Immediately remove all contaminated clothing, including footwear.  Flush skin and hair with running water (and soap if available).  Seek medical attention in event of irritation.
Inhalation	<ul> <li>If fumes or combustion products are inhaled remove from contaminated area.</li> <li>Lay patient down. Keep warm and rested.</li> <li>Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures.</li> <li>Apply artificial respiration if not breathing, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary.</li> <li>Transport to hospital, or doctor.</li> </ul>

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Ingestion

- ► Immediately give a glass of water.
- ▶ First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.

# Most important symptoms and effects, both acute and delayed

See Section 11

#### Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

#### **SECTION 5 FIRE-FIGHTING MEASURES**

#### **Extinguishing media**

- ▶ Foam
- ► Dry chemical powder.

#### Special hazards arising from the substrate or mixture

Fire Incompatibility Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result

Special protective equipment and precautions for fire-fighters			
Fire Fighting	<ul> <li>Alert Fire Brigade and tell them location and nature of hazard.</li> <li>Wear full body protective clothing with breathing apparatus.</li> </ul>		
Fire/Explosion Hazard	► Combustible.     ► Slight fire hazard when exposed to heat or flame.     Combustion products include:     carbon dioxide (CO2)     other pyrolysis products typical of burning organic material.     May emit poisonous fumes.     May emit corrosive fumes.		

# **SECTION 6 ACCIDENTAL RELEASE MEASURES**

#### Personal precautions, protective equipment and emergency procedures

See section 8

#### **Environmental precautions**

See section 12

# Methods and material for containment and cleaning up

Minor Spills	Environmental hazard - contain spillage.  • Remove all ignition sources.  • Clean up all spills immediately.
Major Spills	Environmental hazard - contain spillage.  Moderate hazard.  Clear area of personnel and move upwind.

Personal Protective Equipment advice is contained in Section 8 of the SDS.

#### **SECTION 7 HANDLING AND STORAGE**

#### Precautions for safe handling

Safe handling	<ul> <li>Avoid all personal contact, including inhalation.</li> <li>Wear protective clothing when risk of exposure occurs.</li> <li>DO NOT allow clothing wet with material to stay in contact with skin</li> </ul>
Other information	Store in original containers.     Keep containers securely sealed.

#### Conditions for safe storage, including any incompatibilities

Suitable container	<ul> <li>Metal can or drum</li> <li>Packaging as recommended by manufacturer.</li> <li>Check all containers are clearly labelled and free from leaks.</li> </ul>
Storage incompatibility	Calcium carbonate:  Is incompatible with acids, ammonium salts, fluorine, germanium, lead diacetate, magnesium, mercurous chloride, silicon, silver nitrate, titanium.  Contact with acid generates carbon dioxide gas, which may pressurise and then rupture closed containers  Avoid reaction with oxidising agents

# SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

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# Fiberlock IAQ 8500 Duct Sealer Black 8385

# Control parameters

# OCCUPATIONAL EXPOSURE LIMITS (OEL)

# INGREDIENT DATA

INGREDIENT DATA						
Source	Ingredient	Material name	TWA	STEL	Peak	Notes
US NIOSH Recommended Exposure Limits (RELs)	zinc oxide	Zinc peroxide	Dust: 5 ,Fume: 5 mg/m3	Fume: 10 mg/m3	Dust: 15 mg/m3	Not Available
US ACGIH Threshold Limit Values (TLV)	zinc oxide	Zinc oxide	2 mg/m3	10 mg/m3	Not Available	TLV® Basis: Metal fume fever
US OSHA Permissible Exposure Levels (PELs) - Table Z1	zinc oxide	Zinc oxide: Respirable fraction	5 mg/m3	Not Available	Not Available	Not Available
US OSHA Permissible Exposure Levels (PELs) - Table Z1	zinc oxide	Zinc oxide: Total dust	15 mg/m3	Not Available	Not Available	Not Available
US OSHA Permissible Exposure Levels (PELs) - Table Z1	zinc oxide	Zinc oxide fume	5 mg/m3	Not Available	Not Available	Not Available
US NIOSH Recommended Exposure Limits (RELs)	calcium carbonate	Calcium salt of carbonic acid [Note: Occurs in nature as as limestone, chalk, marble, dolomite, aragonite, calcite and oyster shells.]	10 (total), 5 (resp) mg/m3	Not Available	Not Available	Not Available
US NIOSH Recommended Exposure Limits (RELs)	calcium carbonate	Calcium carbonate, Natural calcium carbonate [Note: Marble is a metamorphic form of calcium carbonate.]	10 (total), 5 (resp) mg/m3	Not Available	Not Available	Not Available
US NIOSH Recommended Exposure Limits (RELs)	calcium carbonate	Calcium carbonate, Natural calcium carbonate [Note: Calcite & aragonite are commercially important natural calcium carbonates.]	10 (total), 5 (resp) mg/m3	Not Available	Not Available	Not Available
US OSHA Permissible Exposure Levels (PELs) - Table Z1	calcium carbonate	Calcium carbonate: Total dust	15 mg/m3	Not Available	Not Available	Not Available
US OSHA Permissible Exposure Levels (PELs) - Table Z1	calcium carbonate	Marble: Respirable fraction	5 mg/m3	Not Available	Not Available	Not Available
US OSHA Permissible Exposure Levels (PELs) - Table Z1	calcium carbonate	Marble: Total dust	15 mg/m3	Not Available	Not Available	Not Available
US OSHA Permissible Exposure Levels (PELs) - Table Z1	calcium carbonate	Limestone: Respirable fraction	5 mg/m3	Not Available	Not Available	Not Available
US OSHA Permissible Exposure Levels (PELs) - Table Z1	calcium carbonate	Limestone: Total dust	15 mg/m3	Not Available	Not Available	Not Available
US OSHA Permissible Exposure Levels (PELs) - Table Z1	calcium carbonate	Respirable fraction	5 mg/m3	Not Available	Not Available	Not Available
US NIOSH Recommended Exposure Limits (RELs)	silica crystalline - quartz	Cristobalite, Quartz, Tridymite, Tripoli	0.05 mg/m3	Not Available	Not Available	Ca See Appendix A
US OSHA Permissible Exposure Levels (PELs) - Table Z3	silica crystalline - quartz	Silica: Crystalline Quartz	10 / (% SiO2 + 2) mg/m3 / 250 / (%SiO2 + 5) mppcf	Not Available	Not Available	(Name ((Respirable) ((f) This standard applies to any operations or sectors for which the respirable crystalline silica standard, 1910.1053, is stayed or is otherwise not in effect.))); (TWA mppcf (((b) The percentage of crystalline silica in the formula is the amount determined from airborne samples, except in those instances in which other methods have been shown to be applicable.))); (TWA mg/m3 (((e) Both concentration and percent quartz for the application of this limit are to be determined from the fraction passing a size-selector with the following characteristics: Aerodynamic diameter (unit density sphere), Percent passing selector 2, 90   2.5, 75   3.5, 50   5.0, 25   10, 0. The measurements under this note refer to the use of an AEC (now NRC) instrument. The respirable fraction of coal dust is determined with an MRE; the figure corresponding to that of 2.4 mg/m3 in the table for coal dust is 4.5 mg/m3K.)))
US ACGIH Threshold Limit Values (TLV)	silica crystalline - quartz	Silica, crystalline - α-quartz and cristobalite	0.025 mg/m3	Not Available	Not Available	TLV® Basis: Pulm fibrosis; lung cancer
US OSHA Permissible Exposure Levels (PELs) - Table Z1	silica crystalline - quartz	Silica, crystalline, respirable dust: Quartz	Not Available	Not Available	Not Available	see 1910.1053; (7) See Table Z-3 for the exposure limit for any operations or sectors where the exposure limit in § 1910.1053 is stayed or is otherwise not in effect.
US NIOSH Recommended Exposure Limits (RELs)	kaolin	China clay, Clay, Hydrated aluminum silicate, Hydrite,	10 (total), 5 (resp) mg/m3	Not Available	Not Available	Not Available

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		Porcelain clay [Note: Main constituent of Kaolin is Kaolinite (Al2Si2O5(OH)4).]				
US ACGIH Threshold Limit Values (TLV)	kaolin	Kaolin	2 mg/m3	Not Available	Not Available	TLV® Basis: Pneumoconiosis
US OSHA Permissible Exposure Levels (PELs) - Table Z1	kaolin	Kaolin: Respirable fraction	5 mg/m3	Not Available	Not Available	Not Available
US OSHA Permissible Exposure Levels (PELs) - Table Z1	kaolin	Kaolin: Total dust	15 mg/m3	Not Available	Not Available	Not Available
US NIOSH Recommended Exposure Limits (RELs)	silica amorphous	Diatomaceous earth, Diatomaceous silica, Diatomite, Precipitated amorphous silica, Silica gel, Silicon dioxide (amorphous)	6 mg/m3	Not Available	Not Available	Not Available
US OSHA Permissible Exposure Levels (PELs) - Table Z3	silica amorphous	Amorphous	80 / (%SiO2) mg/m3 / 20 mppcf	Not Available	Not Available	(Name (including natural diatomaceous earth))
US OSHA Permissible Exposure Levels (PELs) - Table Z1	silica amorphous	Silica, amorphous, precipitated and gel	Not Available	Not Available	Not Available	See Table Z-3
US OSHA Permissible Exposure Levels (PELs) - Table Z1	silica amorphous	Silica, fused, respirable dust	Not Available	Not Available	Not Available	See Table Z-3
US OSHA Permissible Exposure Levels (PELs) - Table Z1	silica amorphous	Silica, amorphous, diatomaceous earth, containing less than 1% crystalline silica	Not Available	Not Available	Not Available	See Table Z-3
US NIOSH Recommended Exposure Limits (RELs)	carbon black	Acetylene black, Channel black, Furnace black, Lamp black, Thermal black	3.5 mg/m3	Not Available	Not Available	Ca See Appendix A See Appendix C
US ACGIH Threshold Limit Values (TLV)	carbon black	Carbon black	3 mg/m3	Not Available	Not Available	TLV® Basis: Bronchitis
US OSHA Permissible Exposure Levels (PELs) - Table Z1	carbon black	Carbon black	3.5 mg/m3	Not Available	Not Available	Not Available

# Levels (PELs) - Table Z1 EMERGENCY LIMITS

Ingredient	Material name	TEEL-1	TEEL-2	TEEL-3
zinc oxide	Zinc oxide	10 mg/m3	15 mg/m3	2,500 mg/m3
potassium pyrophosphate	Potassium pyrophosphate; (Tetrapotassium diphosphorate)	61 mg/m3	680 mg/m3	1,200 mg/m3
monoisobutanolamine	Isobutanol-2-amine	17 mg/m3	190 mg/m3	570 mg/m3
calcium carbonate	Limestone; (Calcium carbonate; Dolomite)	45 mg/m3	500 mg/m3	3,000 mg/m3
calcium carbonate	Carbonic acid, calcium salt	45 mg/m3	210 mg/m3	1,300 mg/m3
silica crystalline - quartz	Silica, crystalline-quartz; (Silicon dioxide)	0.075 mg/m3	33 mg/m3	200 mg/m3
propylene glycol	Polypropylene glycols	30 mg/m3	330 mg/m3	2,000 mg/m3
propylene glycol	Propylene glycol; (1,2-Propanediol)	30 mg/m3	1,300 mg/m3	7,900 mg/m3
silica amorphous	Silica gel, amorphous synthetic	18 mg/m3	200 mg/m3	1,200 mg/m3
silica amorphous	Silica, amorphous fumed	18 mg/m3	100 mg/m3	630 mg/m3
silica amorphous	Siloxanes and silicones, dimethyl, reaction products with silica; (Hydrophobic silicon dioxide, amorphous)	120 mg/m3	1,300 mg/m3	7,900 mg/m3
silica amorphous	Silica, amorphous fume	45 mg/m3	500 mg/m3	3,000 mg/m3
silica amorphous	Silica amorphous hydrated	18 mg/m3	220 mg/m3	1,300 mg/m3
chlorothalonil	Chlorothalonil; (Tetrachloroisophthalonitrile)	0.13 mg/m3	1.4 mg/m3	8.6 mg/m3
carbon black	Carbon black	9 mg/m3	99 mg/m3	590 mg/m3

Ingredient	Original IDLH	Revised IDLH
zinc oxide	500 mg/m3	Not Available
azadioxabicyclooctane, isomer 1	Not Available	Not Available
potassium pyrophosphate	Not Available	Not Available
monoisobutanolamine	Not Available	Not Available

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2-(methylamino)-2-methyl- 1-propanol	Not Available	Not Available
calcium carbonate	Not Available	Not Available
silica crystalline - quartz	25 mg/m3 / 50 mg/m3	Not Available
kaolin	Not Available	Not Available
propylene glycol	Not Available	Not Available
silica amorphous	3,000 mg/m3	Not Available
chlorothalonil	Not Available	Not Available
Non-hazardous ingredient	Not Available	Not Available
carbon black	1,750 mg/m3	Not Available

#### OCCUPATIONAL EXPOSURE BANDING

Ingredient	Occupational Exposure Band Rating	Occupational Exposure Band Limit		
azadioxabicyclooctane, isomer 1	E	≤ 0.01 mg/m³		
potassium pyrophosphate	E	≤ 0.01 mg/m³		
monoisobutanolamine	E	≤ 0.01 mg/m³		
2-(methylamino)-2-methyl- 1-propanol	E	≤ 0.01 mg/m³		
propylene glycol	E	≤ 0.1 ppm		
chlorothalonil	E	≤ 0.01 mg/m³		
Notes:	Occupational exposure banding is a process of assigning chemicals into specific categories or bands based on a chemical's potency and the adverse health outcomes associated with exposure. The output of this process is an occupational exposure band (OEB), which corresponds to a range of exposure concentrations that are expected to protect worker health.			

#### **Exposure controls**

# Appropriate engineering controls

Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection.

#### Personal protection

Eye and face protection









- ► Safety glasses with side shields.
- ► Chemical goggles.

## Skin protection

See Hand protection below

- **+**
- Wear chemical protective gloves, e.g. PVC.Wear safety footwear or safety gumboots, e.g. Rubber
  - NOTE:

## Hands/feet protection

► The material may produce skin sensitisation in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.

The selection of suitable gloves does not only depend on the material, but also on further marks of quality which vary from manufacturer to manufacturer. Where the chemical is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

#### Body protection

See Other protection below

Other protection

- Overalls
- protection P.V.C.

#### Respiratory protection

Type A Filter of sufficient capacity. (AS/NZS 1716 & 1715, EN 143:2000 & 149:2001, ANSI Z88 or national equivalent)

- ▶ Cartridge respirators should never be used for emergency ingress or in areas of unknown vapour concentrations or oxygen content.
- The wearer must be warned to leave the contaminated area immediately on detecting any odours through the respirator. The odour may indicate that the mask is not functioning properly, that the vapour concentration is too high, or that the mask is not properly fitted. Because of these limitations, only restricted use of cartridge respirators is considered appropriate.
- Cartridge performance is affected by humidity. Cartridges should be changed after 2 hr of continuous use unless it is determined that the humidity is less than 75%, in which case, cartridges can be used for 4 hr. Used cartridges should be discarded daily, regardless of the length of time used

## **SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES**

# Information on basic physical and chemical properties

· · · · · · · · · · · · · · · · · · ·				
Appearance	Text			
Physical state	Liquid	Relative density (Water = 1)	Not Available	
Odour	Not Available	Partition coefficient n-octanol / water	Not Available	
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available	
pH (as supplied)	8.5	Decomposition temperature	Not Available	

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Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	Not Available
Initial boiling point and boiling range (°C)	Not Available	Molecular weight (g/mol)	Not Available
Flash point (°C)	Not Available	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	Not Available	Oxidising properties	Not Available
Upper Explosive Limit (%)	Not Available	Surface Tension (dyn/cm or mN/m)	Not Available
Lower Explosive Limit (%)	Not Available	Volatile Component (%vol)	Not Available
Vapour pressure (kPa)	Not Available	Gas group	Not Available
Solubility in water	Immiscible	pH as a solution (1%)	Not Available
Vapour density (Air = 1)	Not Available	VOC g/L	Not Available

# SECTION 10 STABILITY AND REACTIVITY

Reactivity	See section 7
Chemical stability	<ul> <li>Unstable in the presence of incompatible materials.</li> <li>Product is considered stable.</li> </ul>
Possibility of hazardous reactions	See section 7
Conditions to avoid	See section 7
Incompatible materials	See section 7
Hazardous decomposition products	See section 5

# **SECTION 11 TOXICOLOGICAL INFORMATION**

# Information on toxicological effects

Inhalation of vapours or aerosols (mists, fumes), generated by the material during the course of normal handling, may be harmful. The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models). Nevertheless inhalation of vapours, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally, distress.  The material is not thought to produce adverse health effects following ingestion (as classified by EC Directives using animal models). Nevertheless, adverse systemic effects have been produced following exposure of animals by at least one other route and good hygiene practic requires that exposure be kept to a minimum. Ingestion of propylene glycol produced reversible central nervous system depression in humans following ingestion of 60 ml. Symptoms include increased heart-rate (tachycardia), excessive sweating (diaphoresis) and grand mal seizures in a 15 month child who ingested large doses (7.5 ml/day for 8 days) as an ingredient of vitamin preparation.  There is some evidence to suggest that this material can cause inflammation of the skin on contact in some persons.  Open cuts, abraded or irritated skin should not be exposed to this material  Entry into the blood-stream, through, for example, cuts, abrasions or lesions, may produce systemic injury with harmful effects. Examine the ski prior to the use of the material and ensure that any external damage is suitably protected.  Eye  This material can cause eye irritation and damage in some persons.  Studies show that inhaling this substance for over a long period (e.g. in an occupational setting) may increase the risk of cancer. Repeated or long-term occupational exposure is likely to produce cumulative health effects involving organs or biochemical systems. Skin contact with the material is more likely to cause a sensitian reaction in some persons compared to the general population. Chronic dust inhalation of kaolin, can cause kaolinosis from kaolin deposition in th
Ingestion Ingestion Ingestion Ingestion Ingestion of propylene glycol produced reversible central nervous system depression in humans following ingestion of 60 ml. Symptoms include increased heart-rate (tachycardia), excessive sweating (diaphoresis) and grand mal seizures in a 15 month child who ingested large doses (7.5 ml/day for 8 days) as an ingredient of vitamin preparation.  There is some evidence to suggest that this material can cause inflammation of the skin on contact in some persons. Open cuts, abraded or irritated skin should not be exposed to this material Entry into the blood-stream, through, for example, cuts, abrasions or lesions, may produce systemic injury with harmful effects. Examine the ski prior to the use of the material and ensure that any external damage is suitably protected.  Eye This material can cause eye irritation and damage in some persons.  Studies show that inhaling this substance for over a long period (e.g. in an occupational setting) may increase the risk of cancer. Repeated or long-term occupational exposure is likely to roduce cumulative health effects involving organs or biochemical systems. Skin contact with the material is more likely to cause a sensitisation reaction in some persons compared to the general population. Chronic dust inhaliation of kaolin, can cause kaolinosis from kaolin deposition in the lungs causing distinct lung markings, abnormal inflation of acceptance of the sense or comment that this material can cause cancer or mutations, but there is not enough data to make an assessment. Propylene glycol is thought to be sensitizing following the regular use of topical creams by eczema patients. Testing in humans showed that 169
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Fiberlock IAQ 8500 Duct Sealer Black 8385	TOXICITY	IRRITATION
	Not Available	Not Available
zinc oxide	TOXICITY	IRRITATION
	dermal (rat) LD50: >2000 mg/kg[1]	Eye (rabbit) : 500 mg/24 h - mild
	Inhalation (rat) LC50: >1.79 mg/l4 h <sup>[1]</sup>	Eye: no adverse effect observed (not irritating) <sup>[1]</sup>
	Oral (rat) LD50: >5000 mg/kg <sup>[2]</sup>	Skin (rabbit) : 500 mg/24 h- mild
		Skin: no adverse effect observed (not irritating) <sup>[1]</sup>
azadioxabicyclooctane, isomer 1	TOXICITY	IRRITATION
	Dermal (rabbit) LD50: >2000 mg/kg <sup>[2]</sup>	Not Available

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	Oral (rat) LD50: 2950 mg/kg <sup>[2]</sup>		
potassium pyrophosphate	TOXICITY	IRRITATION	
	dermal (rat) LD50: >2000 mg/kg <sup>[1]</sup>	Eye: adverse effect observed (irritating) <sup>[1]</sup>	
	Oral (rat) LD50: >300-2000 mg/kg <sup>[1]</sup>	Skin: no adverse effect observed (not irritating) <sup>[1]</sup>	
	TOXICITY	IRRITATION	
monoisobutanolamine	Dermal (rabbit) LD50: >2000 mg/kg <sup>[2]</sup>	Not Available	
	Oral (rat) LD50: 2900 mg/kg <sup>[2]</sup>		
2-(methylamino)-2-methyl-	TOXICITY	IRRITATION	
1-propanol	Not Available	Not Available	
	TOXICITY	IRRITATION	
	dermal (rat) LD50: >2000 mg/kg <sup>[1]</sup>	Eye (rabbit): 0.75 mg/24h - SEVERE	
calcium carbonate	Oral (rat) LD50: >2000 mg/kg <sup>[1]</sup>	Eye: no adverse effect observed (not irritating) <sup>[1]</sup>	
		Skin (rabbit): 500 mg/24h-moderate	
		Skin: no adverse effect observed (not irritating) <sup>[1]</sup>	
	TOXICITY	IRRITATION	
silica crystalline - quartz	Oral (rat) LD50: =500 mg/kg <sup>[2]</sup>	Not Available	
	TOXICITY	IRRITATION	
kaolin	Not Available	Not Available	
	TOXICITY	IRRITATION	
	Dermal (rabbit) LD50: 11890 mg/kg <sup>[2]</sup>	Eye (rabbit): 100 mg - mild	
	Inhalation (rat) LC50: >44.9 mg/l/4H <sup>[2]</sup>	Eye (rabbit): 500 mg/24h - mild	
propylene glycol	Oral (rat) LD50: 20000 mg/kg <sup>[2]</sup>	Eye: no adverse effect observed (not irritating) <sup>[1]</sup>	
		Skin(human):104 mg/3d Intermit Mod	
		Skin(human):500 mg/7days mild	
		Skin: no adverse effect observed (not irritating) <sup>[1]</sup>	
	TOXICITY	IRRITATION	
	Dermal (rabbit) LD50: >5000 mg/kg <sup>[2]</sup>	Eye (rabbit): non-irritating *	
silica amorphous	Inhalation (rat) LC50: >0.139 mg/l/14h**[Grace] <sup>[2]</sup>	Eye: no adverse effect observed (not irritating) <sup>[1]</sup>	
	Oral (rat) LD50: 3160 mg/kg <sup>[2]</sup>	Skin (rabbit): non-irritating *	
		Skin: no adverse effect observed (not irritating) <sup>[1]</sup>	
	TOXICITY	IRRITATION	
	dermal (rat) LD50: >2500 mg/kg <sup>[2]</sup>	Not Available	
chlorothalonil	Inhalation (rat) LC50: 0.0775 mg/l/1h <sup>[2]</sup>		
	Oral (rat) LD50: >5000 mg/kg <sup>[2]</sup>		
	TOXICITY	IRRITATION	
Non-hazardous ingredient	Not Available	Not Available	
	TOXICITY	IRRITATION	
carbon black	dermal (rat) LD50: >2000 mg/kg <sup>[1]</sup>	Eye: no adverse effect observed (not irritating) <sup>[1]</sup>	
carbon black	Oral (rat) LD50: >15400 mg/kg <sup>[2]</sup>	Skin: no adverse effect observed (not irritating) <sup>[1]</sup>	
Legend:	Value obtained from Europe ECHA Registered Substances - specified data extracted from RTECS - Register of Toxic Effect	Acute toxicity 2.* Value obtained from manufacturer's SDS. Unless otherwise of chemical Substances	
ZADIOXABICYCLOOCTANE,	For azadioxabicyclooctanes: The acute oral and dermal toxicities of azadioxabicyclooctane a	are low. The acute inhalation toxicity showed a median lethal dose range of	
ISOMER 1	between 0.441 mg/L and 0.819 mg/L in males, and between 0.819 mg/L and 1.397 mg/L in females, with epistaxis, labored breathing, rales rhinorrhoea in all dose groups. * CCInfo		
POTASSIUM PYROPHOSPHATE	No data available. Data for sodium analogue only. tetrasodium pyrophosphate		
MONOISOBUTANOLAMINE	TRIS AMINO and its surrogate chemicals have very little, if any	, toxicity. They are mildly irritating to eyes at moderate concentrations, and do n	

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CALCIUM CARBONATE	No evidence of carcinogenic properties. No evidence of mutagenic or teratogenic effects.  The material may produce severe irritation to the eye causing pronounced inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis.					
SILICA CRYSTALLINE - QUARTZ	WARNING: For inhalation exposure ONLY: This substance has been classified by the IARC as Group 1: CARCINOGENIC TO HUMANS  The International Agency for Research on Cancer (IARC) has classified occupational exposures to respirable (<5 um) crystalline silica as being carcinogenic to humans. This classification is based on what IARC considered sufficient evidence from epidemiological studies of humans for the carcinogenicity of inhaled silica in the forms of quartz and cristobalite.					
KAOLIN	For bentonite clays: Bentonite (CAS No. 1302-78-9) consists of a group of clays formed by crystallization of vitreous volcanic ashes that were deposited in water. The expected acute oral toxicity of bentonite in humans is very low.					
SILICA AMORPHOUS	Reports indicate high/prolonged exposures to amorphous silicas induced lung fibrosis in experimental animals; in some experiments these effects were reversible. [PATTYS] For silica amorphous: When experimental animals inhale synthetic amorphous silica (SAS) dust, it dissolves in the lung fluid and is rapidly eliminated. If swallowed, the vast majority of SAS is excreted in the faeces and there is little accumulation in the body. The substance is classified by IARC as Group 3:  NOT classifiable as to its carcinogenicity to humans. Evidence of carcinogenicity may be inadequate or limited in animal testing.					
CHLOROTHALONIL	Chlorothalonil has low toxicity, according to animal tes	sting. It irritates the skin and eye. ADI:	0.01 mg/kg/day NOEL: 1.5 mg/kg/day			
CARBON BLACK	Inhalation (rat) TCLo: 50 mg/m3/6h/90D-I Nil reported					
Fiberlock IAQ 8500 Duct Sealer Black 8385 & AZADIOXABICYCLOOCTANE, ISOMER 1 & CHLOROTHALONIL	The following information refers to contact allergens as a group and may not be specific to this product.  Contact allergies quickly manifest themselves as contact eczema, more rarely as urticaria or Quincke's oedema. The pathogenesis of contact eczema involves a cell-mediated (T lymphocytes) immune reaction of the delayed type.					
Fiberlock IAQ 8500 Duct Sealer Black 8385 & PROPYLENE GLYCOL	The acute oral toxicity of propylene glycol is very low; large amounts are needed to cause perceptible health damage in humans. Serious toxicity generally occurs only at blood concentrations over 1 g/L, which requires extremely high intake over a relatively short period of time; this is nearly impossible with consuming foods or supplements which contain 1g/kg of PG at most.					
ZINC OXIDE & CALCIUM CARBONATE & PROPYLENE GLYCOL	The material may cause skin irritation after prolonged or repeated exposure and may produce on contact skin redness, swelling, the production of vesicles, scaling and thickening of the skin.					
AZADIOXABICYCLOOCTANE, ISOMER 1 & POTASSIUM PYROPHOSPHATE & CALCIUM CARBONATE & CHLOROTHALONIL	Asthma-like symptoms may continue for months or even years after exposure to the material ends. This may be due to a non-allergic condition known as reactive airways dysfunction syndrome (RADS) which can occur after exposure to high levels of highly irritating compound.					
2-(METHYLAMINO)- 2-METHYL-1-PROPANOL & KAOLIN & CARBON BLACK	No significant acute toxicological data identified in literature search.					
CHLOROTHALONIL & CARBON BLACK	WARNING: This substance has been classified by the	e IARC as Group 2B: Possibly Carcino	ogenic to Humans.			
Acute Toxicity	<b>✓</b>	Carcinogenicity	✓			
Skin Irritation/Corrosion	×	Reproductivity	×			
Serious Eye Damage/Irritation	<b>*</b>	STOT - Single Exposure	×			
Respiratory or Skin sensitisation	<b>~</b>	STOT - Repeated Exposure	<b>✓</b>			
Mutagenicity	×	Aspiration Hazard	×			

Legend:

X − Data either not available or does not fill the criteria for classification
 ✓ − Data available to make classification

### **SECTION 12 ECOLOGICAL INFORMATION**

### Toxicity

Fiberlock IAQ 8500 Duct Sealer Black 8385	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURCE
	Not Available	Not Available	Not Available Not Available		Not Available
	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURCE
	LC50	96	Fish	0.001-0.58mg/L	2
	EC50	48	Crustacea	0.001-0.014mg/L	2
zinc oxide	EC50	72	Algae or other aquatic plants	0.037mg/L	2
	BCF	336	Fish	4376.673mg/L	4
	NOEC	72	Algae or other aquatic plants	0.00008138mg/L	2
	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURC
	LC50	96	Fish	28073.682mg/L	3
azadioxabicyclooctane, isomer 1	EC50	96	Algae or other aquatic plants	503.941mg/L	3
	LC50	96	Fish	7479.033mg/L	3
	EC50	96	Algae or other aquatic plants	193.440mg/L	3

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		1	1	<u>'</u>		
	NOEC	96	Fish	-	>=1-mg/L	2
	EC10	72	Algae or other aquatic plants		>10-mg/L	2
carbon black	EC50	72	Algae or other aquatic plants	-	>10-mg/L	2
	EC50	48	Crustacea		>100mg/L	2
	LC50	96	Fish		>100mg/L	2
	ENDPOINT	TEST DURATION (HR)	SPECIES		VALUE	SOUR
Ion-hazardous ingredient	Not Available	Not Available	Not Available		Not Available	Not Availab
	ENDPOINT	TEST DURATION (HR)	SPECIES	1 1	VALUE	SOUR
	NOEC	240	Crustacea	0.000	3mg/L	4
	BCF	336	Algae or other aquatic plants	0.02n		4
	EC50	72	Algae or other aquatic plants	+	8mg/L	4
chlorothalonil	EC50	48	Crustacea		6475mg/L	4
	LC50	96	Fish	1	'6mg/L	4
	ENDPOINT	TEST DURATION (HR)	SPECIES	VALU		SOUR
	FAIREAUT	TEGT DUD ATION (VE)				00115
	NOEC	720	Crustacea	34.2	223mg/L	2
	EC50	72	Algae or other aquatic plants	440	mg/L	1
silica amorphous	EC50	48	Crustacea	ca.7	7600mg/L	1
	LC50	96	Fish	1-28	89.09mg/L	2
	ENDPOINT	TEST DURATION (HR)	SPECIES	VAL	_UE	SOUR
	NOEC	168	Fish	į 11 ———————————————————————————————————	1-530mg/L	2
	EC50	96	Algae or other aquatic plants	-	9-mg/L	2
propylene glycol	EC50	48	Crustacea	-	3-500mg/L	2
	LC50	96	Fish	>10-mg/L		2
	ENDPOINT	TEST DURATION (HR)	SPECIES	1	ALUE	SOUR
		i I	i	<u> </u>		
kaolin	Not Available	Not Available	Not Available	1	Not Available	Not Availab
	ENDPOINT	TEST DURATION (HR)	SPECIES	1	VALUE	SOUR
	Available	Not Available	Not Available	1	Available	Availal
silica crystalline - quartz	Not			1	Not	Not
	ENDPOINT	TEST DURATION (HR)	SPECIES	-	VALUE	SOUR
	NOEC	72	Algae or other aquatic plants	-	mg/L	2
	EC10	72	Algae or other aquatic plants	-	4mg/L	2
calcium carbonate	EC50	72	Algae or other aquatic plants	-	4mg/L	2
	LC50	96	Fish	1	6000mg/L	4
	ENDPOINT	TEST DURATION (HR)	SPECIES	· VA	ALUE	SOUR
1-propanol	Not Available	Not Available	Not Available	1	Not Available	Not Availab
-(methylamino)-2-methyl-	ENDPOINT	TEST DURATION (HR)	SPECIES	1	VALUE	SOUR
	NOEC	48	Crustacea	10	00mg/L	2
	EC50	96	Algae or other aquatic plants		2.872mg/L	3
monoisobutanolamine	EC50	48	Crustacea	=	193mg/L	1
	LC50	96	Fish	-	100mg/L	1
	ENDPOINT	TEST DURATION (HR)	SPECIES	-	ALUE	SOUR
	NOEC		Algae or other aquatic plants	i	>100mg/L	
	NOEC	72				2
otassium pyrophosphate	EC50	72	Algae or other aquatic plants	- i	>100mg/L	2
	EC50	48	Crustacea		>100mg/L	2
	LC50	TEST DURATION (HR)	SPECIES Fish		>100mg/L	2

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Do NOT allow product to come in contact with surface waters or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment wash-waters.

Bentonite and kaolin have low toxicity to aquatic species, a large number of which have been tested

Propylene glycol is known to exert high levels of biochemical oxygen demand (BOD) during degradation in surface waters. This process can adversely affect aquatic life by consuming oxygen needed by aquatic organisms for survival.

**DO NOT** discharge into sewer or waterways.

#### Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
azadioxabicyclooctane, isomer 1	HIGH	HIGH
monoisobutanolamine	LOW	LOW
propylene glycol	LOW	LOW
silica amorphous	LOW	LOW
chlorothalonil	HIGH	HIGH

#### Bioaccumulative potential

Ingredient	Bioaccumulation
zinc oxide	LOW (BCF = 217)
azadioxabicyclooctane, isomer 1	LOW (LogKOW = -1.5532)
monoisobutanolamine	LOW (BCF = 330)
propylene glycol	LOW (BCF = 1)
silica amorphous	LOW (LogKOW = 0.5294)
chlorothalonil	LOW (BCF = 125)

#### Mobility in soil

Ingredient	Mobility
azadioxabicyclooctane, isomer 1	LOW (KOC = 10)
monoisobutanolamine	MEDIUM (KOC = 2.196)
propylene glycol	HIGH (KOC = 1)
silica amorphous	LOW (KOC = 23.74)
chlorothalonil	LOW (KOC = 2392)

#### **SECTION 13 DISPOSAL CONSIDERATIONS**

### Waste treatment methods

- ► Containers may still present a chemical hazard/ danger when empty.
- Return to supplier for reuse/ recycling if possible.

#### Product / Packaging disposal

Legislation addressing waste disposal requirements may differ by country, state and/ or territory. Each user must refer to laws operating in their area.

- ▶ DO NOT allow wash water from cleaning or process equipment to enter drains.
- ▶ It may be necessary to collect all wash water for treatment before disposal.
- Recycle wherever possible or consult manufacturer for recycling options.
- ► Consult State Land Waste Authority for disposal.

#### **SECTION 14 TRANSPORT INFORMATION**

### Labels Required

**Marine Pollutant** 



Land transport (DOT): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Air transport (ICAO-IATA / DGR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Sea transport (IMDG-Code / GGVSee): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Transport in bulk according to Annex II of MARPOL and the IBC code

Not Applicable

### **SECTION 15 REGULATORY INFORMATION**

Safety, health and environmental regulations / legislation specific for the substance or mixture

ZINC OXIDE IS FOUND ON THE FOLLOWING REGULATORY LISTS

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International Air Transport Association (IATA) Dangerous Goods Regulations

International Maritime Dangerous Goods Requirements (IMDG Code)

United Nations Recommendations on the Transport of Dangerous Goods Model Regulations

US - Alaska Limits for Air Contaminants

US - California Permissible Exposure Limits for Chemical Contaminants

US - Hawaii Air Contaminant Limits

US - Idaho - Limits for Air Contaminants

US - Idaho Toxic Air Pollutants Non- Carcinogenic Increments - Occupational Exposure Limits

US - Michigan Exposure Limits for Air Contaminants

US - Minnesota Permissible Exposure Limits (PELs)

US - Oregon Permissible Exposure Limits (Z-1)

US - Tennessee Occupational Exposure Limits - Limits For Air Contaminants

US - Vermont Permissible Exposure Limits Table Z-1-A Final Rule Limits for Air Contaminants

US - Vermont Permissible Exposure Limits Table Z-1-A Transitional Limits for Air Contaminants

US - Washington Permissible exposure limits of air contaminants

US - Wyoming Toxic and Hazardous Substances Table Z1 Limits for Air Contaminants

US ACGIH Threshold Limit Values (Spanish)

US ACGIH Threshold Limit Values (TLV)

US AIHA Workplace Environmental Exposure Levels (WEELs)

US CWA (Clean Water Act) - Priority Pollutants

US CWA (Clean Water Act) - Toxic Pollutants

US Department of Transportation (DOT), Hazardous Material Table

US DOE Temporary Emergency Exposure Limits (TEELs)

US EPA Carcinogens Listing

US EPCRA Section 313 Chemical List

US NIOSH Recommended Exposure Limits (RELs)

US NIOSH Recommended Exposure Limits (RELs) (Spanish)

US OSHA Permissible Exposure Levels (PELs) - Table Z1

US OSHA Permissible Exposure Limits - Annotated Table Z-1 (Spanish)

US OSHA Permissible Exposure Limits - Annotated Table Z-3 (Spanish)

US Postal Service (USPS) Hazardous Materials Table: Postal Service Mailability Guide

US Postal Service (USPS) Numerical Listing of Proper Shipping Names by Identification (ID) Number

US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

US TSCA Chemical Substance Inventory - Interim List of Active Substances

#### AZADIOXABICYCLOOCTANE, ISOMER 1 IS FOUND ON THE FOLLOWING REGULATORY LISTS

International Air Transport Association (IATA) Dangerous Goods Regulations International Maritime Dangerous Goods Requirements (IMDG Code)

United Nations Recommendations on the Transport of Dangerous Goods Model Regulations

US Department of Transportation (DOT), Hazardous Material Table

US Postal Service (USPS) Hazardous Materials Table: Postal Service Mailability Guide

US Postal Service (USPS) Numerical Listing of Proper Shipping Names by Identification (ID) Number

US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

US TSCA Chemical Substance Inventory - Interim List of Active Substances

#### POTASSIUM PYROPHOSPHATE IS FOUND ON THE FOLLOWING REGULATORY LISTS

GESAMP/EHS Composite List - GESAMP Hazard Profiles

International Air Transport Association (IATA) Dangerous Goods Regulations

International Maritime Dangerous Goods Requirements (IMDG Code)

United Nations Recommendations on the Transport of Dangerous Goods Model Regulations

US Department of Transportation (DOT), Hazardous Material Table

US DOE Temporary Emergency Exposure Limits (TEELs)

US Postal Service (USPS) Hazardous Materials Table: Postal Service Mailability Guide

US Postal Service (USPS) Numerical Listing of Proper Shipping Names by Identification (ID) Number

US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

US TSCA Chemical Substance Inventory - Interim List of Active Substances

#### MONOISOBUTANOLAMINE IS FOUND ON THE FOLLOWING REGULATORY LISTS

GESAMP/EHS Composite List - GESAMP Hazard Profiles

IMO IBC Code Chapter 17: Summary of minimum requirements

IMO MARPOL (Annex II) - List of Noxious Liquid Substances Carried in Bulk

US Coast Guard, Department of Homeland Security Part 153: Ships Carrying Bulk Liquid, Liquefied gas or compressed gas hazardous materials. Table 1 to Part 153

 ${\tt US\ DOE\ Temporary\ Emergency\ Exposure\ Limits\ (TEELs)}$ 

US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory US TSCA Chemical Substance Inventory - Interim List of Active Substances

Liquid, Liquetied gas or compressed gas nazardous materials. Table 1 to Part 153
--Summary of Minimum Requirements

# 2-(METHYLAMINO)-2-METHYL-1-PROPANOL IS FOUND ON THE FOLLOWING REGULATORY LISTS

Not Applicable

#### CALCIUM CARBONATE IS FOUND ON THE FOLLOWING REGULATORY LISTS

GESAMP/EHS Composite List - GESAMP Hazard Profiles

IMO IBC Code Chapter 18: List of products to which the Code does not apply

US - Alaska Limits for Air Contaminants

US - Hawaii Air Contaminant Limits

US - Idaho - Limits for Air Contaminants

US - Idaho Toxic Air Pollutants Non- Carcinogenic Increments - Occupational Exposure Limits

US - Michigan Exposure Limits for Air Contaminants

US - Minnesota Permissible Exposure Limits (PELs)

US - Oregon Permissible Exposure Limits (Z-1)

US - Tennessee Occupational Exposure Limits - Limits For Air Contaminants

US - Vermont Permissible Exposure Limits Table Z-1-A Final Rule Limits for Air Contaminants

US - Vermont Permissible Exposure Limits Table Z-1-A Transitional Limits for Air Contaminants

US - Washington Permissible exposure limits of air contaminants

US - Wyoming Toxic and Hazardous Substances Table Z1 Limits for Air Contaminants

US ACGIH Threshold Limit Values (Spanish)

US DOE Temporary Emergency Exposure Limits (TEELs)

US NIOSH Recommended Exposure Limits (RELs)

US NIOSH Recommended Exposure Limits (RELs) (Spanish)

US OSHA Permissible Exposure Levels (PELs) - Table Z1

US OSHA Permissible Exposure Limits - Annotated Table Z-1 (Spanish)

US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory US TSCA Chemical Substance Inventory - Interim List of Active Substances

SILICA CRYSTALLINE - QUARTZ IS FOUND ON THE FOLLOWING REGULATORY LISTS

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#### Fiberlock IAQ 8500 Duct Sealer Black 8385

Print Date: 02/03/2020

Chemical Footprint Project - Chemicals of High Concern List

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs - Group 1 : Carcinogenic to humans

US - Alaska Limits for Air Contaminants

US - California Permissible Exposure Limits for Chemical Contaminants

US - Hawaii Air Contaminant Limits

US - Idaho - Limits for Air Contaminants

US - Idaho Toxic Air Pollutants Non- Carcinogenic Increments - Occupational Exposure Limits

US - Idaho - Toxic and Hazardous Substances - Mineral Dust

US - Michigan Exposure Limits for Air Contaminants

US - Minnesota Permissible Exposure Limits (PELs)

US - Oregon Permissible Exposure Limits (Z-1)

US - Oregon Permissible Exposure Limits (Z-3)

US - Tennessee Occupational Exposure Limits - Limits For Air Contaminants

US - Vermont Permissible Exposure Limits Table Z-1-A Final Rule Limits for Air Contaminants

US - Vermont Permissible Exposure Limits Table Z-1-A Transitional Limits for Air

US - Washington Permissible exposure limits of air contaminants

US - Wyoming Toxic and Hazardous Substances Table Z1 Limits for Air Contaminants

US - Wyoming Toxic and Hazardous Substances Table Z-3 Mineral Dusts

US ACGIH Threshold Limit Values (Spanish)

US ACGIH Threshold Limit Values (TLV)

US AIHA Workplace Environmental Exposure Levels (WEELs) US DOE Temporary Emergency Exposure Limits (TEELs)

US National Toxicology Program (NTP) 14th Report Part A Known to be Human

Carcinogens

US NIOSH Recommended Exposure Limits (RELs)

US NIOSH Recommended Exposure Limits (RELs) (Spanish)

US OSHA Permissible Exposure Levels (PELs) - Table Z1

US OSHA Permissible Exposure Levels (PELs) - Table Z3

US OSHA Permissible Exposure Limits - Annotated Table Z-1 (Spanish)

US OSHA Permissible Exposure Limits - Annotated Table Z-3 (Spanish)

US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory US TSCA Chemical Substance Inventory - Interim List of Active Substances

#### KAOLIN IS FOUND ON THE FOLLOWING REGULATORY LISTS

Chemical Footprint Project - Chemicals of High Concern List

GESAMP/EHS Composite List - GESAMP Hazard Profiles

IMO IBC Code Chapter 18: List of products to which the Code does not apply International WHO List of Proposed Occupational Exposure Limit (OEL) Values for Manufactured Nanomaterials (MNMS)

US - Alaska Limits for Air Contaminants

US - California Permissible Exposure Limits for Chemical Contaminants

US - Hawaii Air Contaminant Limits

US - Idaho - Limits for Air Contaminants

US - Idaho Toxic Air Pollutants Non- Carcinogenic Increments - Occupational Exposure Limits

US - Minnesota Permissible Exposure Limits (PELs)

US - Oregon Permissible Exposure Limits (Z-1)

US - Tennessee Occupational Exposure Limits - Limits For Air Contaminants

US - Vermont Permissible Exposure Limits Table Z-1-A Final Rule Limits for Air Contaminants

US - Vermont Permissible Exposure Limits Table Z-1-A Transitional Limits for Air Contaminants

US - Washington Permissible exposure limits of air contaminants

US - Wyoming Toxic and Hazardous Substances Table Z1 Limits for Air Contaminants

US ACGIH Threshold Limit Values (Spanish)

US ACGIH Threshold Limit Values (TLV)

US AIHA Workplace Environmental Exposure Levels (WEELs)

US NIOSH Recommended Exposure Limits (RELs)

US NIOSH Recommended Exposure Limits (RELs) (Spanish)

US OSHA Permissible Exposure Levels (PELs) - Table Z1

US OSHA Permissible Exposure Limits - Annotated Table Z-1 (Spanish)

US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

US TSCA Chemical Substance Inventory - Interim List of Active Substances

#### PROPYLENE GLYCOL IS FOUND ON THE FOLLOWING REGULATORY LISTS

GESAMP/EHS Composite List - GESAMP Hazard Profiles

IMO IBC Code Chapter 17: Summary of minimum requirements

IMO IBC Code Chapter 18: List of products to which the Code does not apply

IMO MARPOL (Annex II) - List of Noxious Liquid Substances Carried in Bulk IMO MARPOL 73/78 (Annex II) - List of Other Liquid Substances

IMO Provisional Categorization of Liquid Substances - List 3: (Trade-named) mixtures containing at least 99% by weight of components already assessed by IMO, presenting safety hazards

US ATSDR Minimal Risk Levels for Hazardous Substances (MRLs)

# US DOE Temporary Emergency Exposure Limits (TEELs)

US DOT Coast Guard Bulk Hazardous Materials - List of Flammable and Combustible **Bulk Liquid Cargoes** 

US Spacecraft Maximum Allowable Concentrations (SMACs) for Airborne Contaminants

US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

US Toxicology Excellence for Risk Assessment (TERA) Workplace Environmental Exposure Levels (WEEL)

US TSCA Chemical Substance Inventory - Interim List of Active Substances

#### SILICA AMORPHOUS IS FOUND ON THE FOLLOWING REGULATORY LISTS

GESAMP/EHS Composite List - GESAMP Hazard Profiles

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs

International WHO List of Proposed Occupational Exposure Limit (OEL) Values for Manufactured Nanomaterials (MNMS)

US - Alaska Limits for Air Contaminants

US - California Permissible Exposure Limits for Chemical Contaminants

US - Hawaii Air Contaminant Limits

US - Idaho - Limits for Air Contaminants

US - Idaho Toxic Air Pollutants Non- Carcinogenic Increments - Occupational Exposure Limits

US - Idaho - Toxic and Hazardous Substances - Mineral Dust

US - Michigan Exposure Limits for Air Contaminants

US - Minnesota Permissible Exposure Limits (PELs)

US - Oregon Permissible Exposure Limits (Z-3)

US - Tennessee Occupational Exposure Limits - Limits For Air Contaminants

US - Vermont Permissible Exposure Limits Table Z-1-A Final Rule Limits for Air Contaminants

### CHLOROTHALONIL IS FOUND ON THE FOLLOWING REGULATORY LISTS

US - Vermont Permissible Exposure Limits Table Z-1-A Transitional Limits for Air Contaminants

US - Washington Permissible exposure limits of air contaminants

US - Wyoming Toxic and Hazardous Substances Table Z1 Limits for Air Contaminants

US - Wyoming Toxic and Hazardous Substances Table Z-3 Mineral Dusts

US ACGIH Threshold Limit Values (Spanish)

US DOE Temporary Emergency Exposure Limits (TEELs)

US NIOSH Recommended Exposure Limits (RELs)

US NIOSH Recommended Exposure Limits (RELs) (Spanish)

US OSHA Permissible Exposure Levels (PELs) - Table Z1

US OSHA Permissible Exposure Levels (PELs) - Table Z3

US OSHA Permissible Exposure Limits - Annotated Table Z-1 (Spanish)

US OSHA Permissible Exposure Limits - Annotated Table Z-3 (Spanish)

US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

US TSCA Chemical Substance Inventory - Interim List of Active Substances

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#### Fiberlock IAQ 8500 Duct Sealer Black 8385

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Chemical Footprint Project - Chemicals of High Concern List

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs - Group 2B : Possibly carcinogenic to humans

International Air Transport Association (IATA) Dangerous Goods Regulations

International Maritime Dangerous Goods Requirements (IMDG Code)

United Nations Recommendations on the Transport of Dangerous Goods Model Regulations

US - California Office of Environmental Health Hazard Assessment Proposition 65 No Significant Risk Levels (NSRLs) for Carcinogens and Maximum Allowable Dose Levels (MADLs) for Chemicals Causing Reproductive Toxicity

US - California Proposition 65 - Carcinogens

#### US - California Proposition 65 - No Significant Risk Levels (NSRLs) for Carcinogens

US Department of Transportation (DOT), Hazardous Material Table

US DOE Temporary Emergency Exposure Limits (TEELs)

US EPCRA Section 313 Chemical List

US List of Active Substances Exempt from the TSCA Inventory Notifications (Active-Inactive) Rule

US Postal Service (USPS) Hazardous Materials Table: Postal Service Mailability Guide

US Postal Service (USPS) Numerical Listing of Proper Shipping Names by Identification (ID) Number

US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

#### NON-HAZARDOUS INGREDIENT IS FOUND ON THE FOLLOWING REGULATORY LISTS

Not Applicable

#### CARBON BLACK IS FOUND ON THE FOLLOWING REGULATORY LISTS

Chemical Footprint Project - Chemicals of High Concern List

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs - Group 2B : Possibly carcinogenic to humans

International WHO List of Proposed Occupational Exposure Limit (OEL) Values for Manufactured Nanomaterials (MNMS)

US - Alaska Limits for Air Contaminants

US - California Permissible Exposure Limits for Chemical Contaminants

US - California Proposition 65 - Carcinogens

US - Hawaii Air Contaminant Limits

US - Idaho - Limits for Air Contaminants

US - Idaho Toxic Air Pollutants Non- Carcinogenic Increments - Occupational Exposure Limits

US - Michigan Exposure Limits for Air Contaminants

US - Minnesota Permissible Exposure Limits (PELs)

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US - Vermont Permissible Exposure Limits Table Z-1-A Transitional Limits for Air Contaminants

US - Washington Permissible exposure limits of air contaminants

US - Wyoming Toxic and Hazardous Substances Table Z1 Limits for Air Contaminants

US ACGIH Threshold Limit Values (Spanish)

US ACGIH Threshold Limit Values (TLV)

US AIHA Workplace Environmental Exposure Levels (WEELs)

US DOE Temporary Emergency Exposure Limits (TEELs)

US NIOSH Recommended Exposure Limits (RELs)

US NIOSH Recommended Exposure Limits (RELs) (Spanish)

US OSHA Permissible Exposure Levels (PELs) - Table Z1

US OSHA Permissible Exposure Limits - Annotated Table Z-1 (Spanish)

US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory US TSCA Chemical Substance Inventory - Interim List of Active Substances

#### **Federal Regulations**

#### Superfund Amendments and Reauthorization Act of 1986 (SARA)

#### SECTION 311/312 HAZARD CATEGORIES

Flammable (Gases, Aerosols, Liquids, or Solids)	No
Gas under pressure	No
Explosive	No
Self-heating	No
Pyrophoric (Liquid or Solid)	No
Pyrophoric Gas	No
Corrosive to metal	No
Oxidizer (Liquid, Solid or Gas)	No
Organic Peroxide	No
Self-reactive	No
In contact with water emits flammable gas	No
Combustible Dust	No
Carcinogenicity	Yes
Acute toxicity (any route of exposure)	Yes
Reproductive toxicity	No
Skin Corrosion or Irritation	No
Respiratory or Skin Sensitization	Yes
Serious eye damage or eye irritation	Yes
Specific target organ toxicity (single or repeated exposure)	Yes
Aspiration Hazard	No
Germ cell mutagenicity	No
Simple Asphyxiant	No
Hazards Not Otherwise Classified	No

# US. EPA CERCLA HAZARDOUS SUBSTANCES AND REPORTABLE QUANTITIES (40 CFR 302.4)

None Reported

#### State Regulations

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#### Fiberlock IAQ 8500 Duct Sealer Black 8385

Print Date: 02/03/2020

WARNING: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm

#### US - CALIFORNIA PROPOSITION 65 - CARCINOGENS: LISTED SUBSTANCE

Chlorothalonil, Carbon black (airborne, unbound particles of respirable size) Listed

#### **National Inventory Status**

National Inventory	Status
Australia - AICS	No (2-(methylamino)-2-methyl-1-propanol)
Canada - DSL	No (2-(methylamino)-2-methyl-1-propanol)
Canada - NDSL	No (chlorothalonil; monoisobutanolamine; kaolin; propylene glycol; silica crystalline - quartz; 2-(methylamino)-2-methyl-1-propanol; potassium pyrophosphate; carbon black; azadioxabicyclooctane, isomer 1)
China - IECSC	Yes
Europe - EINEC / ELINCS / NLP	No (2-(methylamino)-2-methyl-1-propanol)
Japan - ENCS	No (kaolin; potassium pyrophosphate; azadioxabicyclooctane, isomer 1)
Korea - KECI	No (2-(methylamino)-2-methyl-1-propanol)
New Zealand - NZIoC	Yes
Philippines - PICCS	Yes
USA - TSCA	No (2-(methylamino)-2-methyl-1-propanol)
Taiwan - TCSI	Yes
Mexico - INSQ	No (2-(methylamino)-2-methyl-1-propanol; potassium pyrophosphate)
Vietnam - NCI	Yes
Russia - ARIPS	No (chlorothalonii; 2-(methylamino)-2-methyl-1-propanol)
Legend:	Yes = All CAS declared ingredients are on the inventory No = One or more of the CAS listed ingredients are not on the inventory and are not exempt from listing(see specific ingredients in brackets)

#### **SECTION 16 OTHER INFORMATION**

Revision Date	02/03/2020
Initial Date	05/02/2017

#### CONTACT POINT

### **SDS Version Summary**

Version	Issue Date	Sections Updated
5.8.1.1.1	02/03/2020	Ingredients

#### Other information

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings.

#### **Definitions and abbreviations**

PC-TWA: Permissible Concentration-Time Weighted Average

 ${\sf PC-STEL} : {\sf Permissible \ Concentration-Short \ Term \ Exposure \ Limit}$ 

IARC: International Agency for Research on Cancer

ACGIH: American Conference of Governmental Industrial Hygienists

STEL: Short Term Exposure Limit

TEEL: Temporary Emergency Exposure Limit $_{\circ}$ 

IDLH: Immediately Dangerous to Life or Health Concentrations

OSF: Odour Safety Factor

TLV: Threshold Limit Value

NOAEL :No Observed Adverse Effect Level LOAEL: Lowest Observed Adverse Effect Level

LOD: Limit Of Detection OTV: Odour Threshold Value BCF: BioConcentration Factors BEI: Biological Exposure Index

Powered by AuthorlTe, from Chemwatch.

<sup>\*\*</sup>PLEASE NOTE THAT TITANIUM DIOXIDE IS NOT PRESENT IN CLEAR OR NEUTRAL BASES\*\*

# **SAFETY DATA SHEET**

TRADE NAME: CHEMSAFE 800W/TSP

PAGE 1 OF 8

ISSUE DATE: 1/15/1993 REVISION DATE: 4/15/2015

### 1. PRODUCT AND COMPANY IDENTIFICATION

#### **GHS PRODUCT IDENTIFIER:**

TRADE NAME; CHEMSAFE 800W/TSP

#### **OTHER MEANS OF IDENTIFICATION:**

### RECOMMENDED USE OF THE CHEMICAL AND RESTRICTIONS ON USE:

RECOMMENDED USE: CLEANING COMPOUND

#### **SUPPLIER'S DETAILS:**

Aramsco)
1480 GRANDVIEW AVE.
THOROFARE, NJ 08086

(800)767-6933

#### **EMERGENCY PHONE NUMBER:**

COMPANY PHONE NUMBER: (800)767-6933

(24HR) EMERGENCY NUMBER: CHEM-TREC (800)424-9300

### 2. HAZARD IDENTIFICATION

#### **GHS CLASSIFICATION:**

GHS CLASSIFICATION SCALE: (1=SEVERE HAZARD, 4=SLIGHT HAZARD)

#### **PHYSICAL HAZARDS:**

None listed

### **HEALTH HAZARDS:**

SKIN IRRITATION CATEGORY 2 (concentrate form)
SERIOUS EYE DAMAGE / IRRITATION CATEGORY 2 (concentrate form)

#### **LABEL ELEMENTS:**

SIGNAL WORD: WARNING

#### **HAZARD STATEMENTS:**

Causes skin irritation Causes serious eye irritation

#### **HAZARD SYMBOLS:**



### PRECAUTIONARY STATEMENTS:

Keep out of reach of children.

Wash hands, face and all exposed skin areas after handling.

Wear protective gloves/protective clothing/eye protection/face protection

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#### PRECAUTIONARY STATEMENTS (RESPONSE):

IF ON SKIN: Wash with plenty of water. Take off contaminated clothing and wash it before reuse. If skin irritation occurs, get medical advice/attention.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if easy to do. Continue rinsing. If eye irritation persists, get medical advice/attention.

IN CASE OF FIRE: Use media suitable for surrounding fire.

#### PRECAUTIONARY STATEMENTS (STORAGE):

No special precautions listed in GHS

#### PRECAUTIONARY STATEMENTS (DISPOSAL):

No special directive in GHS

#### **OTHER HAZARDS:**

Repeated or prolonged exposure can cause skin dryness or cracking.

### 3. COMPOSITION INFORMATION ON INGREDIENTS

INGREDIENT IDENTITY	CAS NUMBER	PERCENTAGE
TRISODIUM PHOSPHATE	10101-89-0	PROPRIETARY

REMAINING INGREDIENTS ARE NOT REPORTABLE UNDER OSHA/SDS GUIDELINES. THE EXACT PERCENTAGES OF SOME INGREDIENTS HAVE BEEN WITHELD AS (CBI) CONFIDENTIAL BUSINESS INFORMATION TRADE SECRET.

### 4. FIRST AID MEASURES

INGESTION: If swallowed, drink copious amounts of water to dilute. Do not induce vomiting unless told to do so by doctor or physician. Seek medical advice/attention. If spontaneous vomiting occurs, keep head below hips to prevent aspiration of liquid into the lung. Never give anything by mouth to an unconscious person.

SKIN CONTACT: Remove contaminated clothing. Wash with soap and plenty of water for 15 minutes. Wash contaminated clothing before reuse. If irritation occurs get medical advice.

INHALATION: Move individual away from exposure and into fresh air. If breathing is irregular or stopped, administer artificial respiration. In case of shortness of breath, give oxygen. Call a physician if you feel unwell.

EYE CONTACT: Rinse cautiously with water for several minutes. Remove contact lenses if easy to do.

Continue rinsing. If irritation persists get medical attention/advice.

### Most Important Symptoms and Effects, Acute and Delayed

INGESTION: Symptoms may include diarrhea, gastric pain, and vomiting. SKIN CONTACT: Symptoms may include redness, dryness and cracking of skin.

INHALATION: Symptoms may include irritation of respiratory tract

EYE CONTACT: Symptoms may include stinging, tearing, redness and blurred vision.

### Indication of immediate medical attention and special treatment needed, if necessary.

Treat Symptomatically.

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### 5. FIRE FIGHTING MEASURES

Suitable extinguishing media: Use methods suitable for surrounding fire

Unsuitable extinguishing media- Not flammable.

Specific hazards arising from the chemical: No further relevant information available.

Hazardous thermal decomposition products: carbon monoxide and CO2

**Special protective actions for fire-fighters:** Keep product containers and surrounding areas cool with water spray. No action shall be taken involving any personal risk or without suitable training.

**Special protective equipment for fire-fighters**: Fire fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

### 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures:

**For non-emergency personnel:** No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

**For emergency responders:** If specialized clothing is required to deal with the spillage, take note of information in section 8 for further information. See also information in non-emergency personnel above.

**Environmental precautions:** Avoid dispersal of spilled material with waterways, drains and sewers. See section 12 for additional ecological information.

### Methods and materials for containment and cleaning up.

**Small spill:** Stop leak if without risk. Move containers from the spill area. Absorb with an inert dry material such as diatomaceous earth or vermiculite and place in an appropriate waste disposal container. Mop any remaining residues with soap and water and dispose of wastes via a licensed waste disposal contractor according to federal, state and local regulations.

**Large spill:** Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, drains, water courses and confined areas. Wash spillages into an effluent treatment plant or absorb with an inert dry material such as diatomaceous earth or vermiculite and place in a appropriate waste disposal containers. Mop any remaining residues with soap and water and dispose of wastes via a licensed waste disposal contractor according to federal, state and local regulations.

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### 7. HANDLING AND STORAGE

# **Precautions for Safe Handling:**

**Safe Handling Advice:** Utilize appropriate personal protective equipment when handling product. Do not swallow. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mists. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep tightly closed when not in use. Wash face, hands and any exposed skin thoroughly after handling. Wear protective gloves/protective clothing/eye protection and face protection during use.

**Advice on general occupational hygiene**: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also section 8 for additional hygiene information.

# **Conditions for safe storage including any incompatibilities:**

Store in a dry, well ventilated area away from strong oxidizing agents (see section 10) and food and drink. Keep container tightly closed when not in use. Do not store in unlabeled containers. Keep away from children.

### 8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

### **Control Parameters**

**Occupational Exposure Limits** 

Ingredient Identity ACGIH TLV OSHA PEL NIOSH IDLH

Trisodium phosphate 5mg/m3 USA. Workplace Environmental Exposure Levels (WEEL)

### **Appropriate Engineering Controls**

**Engineering Controls:** Use with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants and maintain air concentrations below occupational exposure standards.

### Individual protection measures, such as personal protective equipment. (PPE)

Eye/Face Protection: Wear approved tightly sealed safety goggles

**Skin & Body Protection:** Wear chemical resistant, impervious gloves at all times when handling chemical products. Check during use that gloves are still retaining their impervious properties, as the time for breakthrough can change from different manufacturers and chemical mixtures cannot always be accurately measured. Appropriate footwear and suitable protective clothing should be worn for the degree and risk of exposure.

**Respiratory Protection:** If workplace exposure limits of product or any component is exceeded, utilize proper respiratory protection program guidelines (see OSHA 1910.134 and American National Standard ANSI Z88.2) Use a properly fitted NIOSH/MSHA air-purifying or air-fed respirator in compliance with the above mentioned standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

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### 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: green colored liquid

Odor: mild

Odor threshold: not available

pH: 10.5-11.1

Melting Point/Freezing Point: Not Determined Initial Boiling Point/Range: Not Determined

Flash Pt: Not Applicable

Evaporation Rate: Not Determined (butyl acetate=1)

Lower explosive limits: Not Applicable Upper explosive limits: Not Applicable

Vapor Pressure: Not Determined

Vapor Density: Not Determined (air=1)

Relative Density: 1.02 Solubility in water: Soluble

Partition coefficient: not applicable Auto ignition temp: not applicable Decomposition Temp: not available

Viscosity: water thin

# 10. STABILITY AND REACTIVITY

Reactivity: Stable in normal ambient temperature and pressure

Chemical Stability: Stable under recommended storage conditions.

Possibility of Hazardous Reactions: not under normal conditions of storage and use.

Conditions to Avoid: No further relevant information available.

Incompatible Materials: Oxidizing materials

Hazardous Decomposition Products: Carbon monoxide and Carbon Dioxide

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# 11. TOXICOLOGICAL INFORMATION

Acute toxicity: not classified,

Skin corrosion irritation: classified, Category 2, Trisodium Phosphate 10101-89-0

Serious eye damage: classified, Category 2, Trisodium Phosphate 10101-89-0

Sensitization: Not classified

Mutagenicity: Not classified

Carcinogenicity: Not classified

**Reproductive Toxicity: Not Classified** 

**Teratogenicity: Not Available** 

# **Specific target Organ Toxicity (single exposure):**

Not classified

### **Specific target Organ Toxicity (repeated exposure)**

Not Classified

**Aspiration Hazard: Not classified** 

# <u>Information on the likely routes of exposure:</u>

**Ingestion:** May be harmful if swallowed

Inhalation: Not expectedSkin: Causes skin irritationEye: Causes serious eye irritation

### Symptoms related to the physical, chemical and toxicological characteristics

Ingestion: See section iv, most important symptoms and effects, acute and delayed.
Inhalation: See section iv, most important symptoms and effects, acute and delayed.
Skin: See section iv, most important symptoms and effects, acute and delayed.
Eye: See section iv, most important symptoms and effects, acute and delayed.

### Delayed and immediate effects and also chronic effects from short and long term exposure.

General: Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis Carcinogenicity: no known significant effects or critical hazards. Not classifiable.

### **Numerical measures of Toxicity**

Not Available

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# 12. ECOLOGICAL INFORMATION

Toxicity:Ingredient nameResultSpeciesExposureTrisodium Phosphate2,400mg/l(Golden orfe)48h

### Persistence and degradability:

No data

### **Bioaccumulation Potential:**

No data

# **Mobility in Soil:**

No data

# **Other adverse Effects:**

No further information.

### 13. DISPOSAL CONSIDERATIONS

Dispose in accordance with applicable federal, state and local regulations.

# 14. TRANSPORTATION INFORMATION

DOT: NOT REGULATED NOT REGULATED IMDG: NOT REGULATED

### 15. REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS: All ingredients are listed or exempted with TSCA.

SARA 302/304: no products were found. SARA 311/312: acute health hazard: yes

Ingredient	%	FIRE	PRESSURE	REACTIVE	IMMEDIATE	DELAYED
		HAZARD	RELEASE		ACUTE	CHRONIC
Trisodium					YES	
Phosphate	PROPRIETARY					

#### SARA 313: none found above de minimis levels

# STATE REGULATIONS:

Ingredient	New York	New Jersey	Massachusetts	Pennsylvania
Trisodium Phosphate	No	Yes	Yes	Yes

California Prop 65: none known to meet requirements

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# 16. OTHER INFORMATION

HMIS RATING: HEALTH (1) FIRE (0) REACTIVITY (0) PP-B 4=EXTREME, 3=HIGH, 2=MODERATE, 1=SLIGHT, 0=INSIGNIFICANT

### NOTICE TO READER:

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. The information on this sds was obtained from sources which we believe are reliable. However, the information is provided without any warranty, expressed or implied, regarding its correctness. Users are advised to confirm in advance of need, that information is current, applicable and suited to the circumstances of use. Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the sds. /furthermore, vendor assumes no responsibility for injury caused by abnormal use of this material even if reasonable safety procedures are followed.



# SAFETY DATA SHEET

Version 6.6 Revision Date 05/24/2022 Print Date 08/27/2022

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifiers

Product name : Acetone

Product Number : 179124 Brand : SIGALD

Index-No. : 606-001-00-8 CAS-No. : 67-64-1

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Synthesis of substances

### 1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich Inc.

3050 SPRUCE ST ST. LOUIS MO 63103 UNITED STATES

Telephone : +1 314 771-5765 Fax : +1 800 325-5052

1.4 Emergency telephone

Emergency Phone # : 800-424-9300 CHEMTREC (USA) +1-703-

527-3887 CHEMTREC (International) 24

Hours/day; 7 Days/week

#### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

### GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Flammable liquids (Category 2), H225

Eye irritation (Category 2A), H319

Specific target organ toxicity - single exposure (Category 3), Central nervous system, H336

For the full text of the H-Statements mentioned in this Section, see Section 16.

# 2.2 GHS Label elements, including precautionary statements

Pictogram



Signal Word Danger



Hazard statement(s) H225 H319 H336	Highly flammable liquid and vapor. Causes serious eye irritation. May cause drowsiness or dizziness.
Precautionary statement(s)	
P210	Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.
P233	Keep container tightly closed.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical/ ventilating/ lighting/ equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P261	Avoid breathing mist or vapors.
P264	Wash skin thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/ eye protection/ face protection.
P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P304 + P340 + P312	IF INHALED: Remove person to fresh air and keep comfortable
	for breathing. Call a POISON CENTER/ doctor if you feel unwell.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes.
	Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313	If eye irritation persists: Get medical advice/ attention.
P370 + P378	In case of fire: Use dry sand, dry chemical or alcohol-resistant
	foam to extinguish.
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P403 + P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

# 2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

Repeated exposure may cause skin dryness or cracking.

# **SECTION 3: Composition/information on ingredients**

### 3.1 Substances

Component	Classification	Concentration
acetone		
	Flam. Liq. 2; Eye Irrit. 2A; STOT SE 3; H225, H319, H336 Concentration limits: >= 20 %: STOT SE 3, H336;	<= 100 %



### **SECTION 4: First aid measures**

### 4.1 Description of first-aid measures

#### **General advice**

Show this material safety data sheet to the doctor in attendance.

#### If inhaled

After inhalation: fresh air. Call in physician.

#### In case of skin contact

In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower.

### In case of eye contact

After eye contact: rinse out with plenty of water. Call in ophthalmologist. Remove contact lenses.

#### If swallowed

After swallowing: immediately make victim drink water (two glasses at most). Consult a physician.

### 4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

# 4.3 Indication of any immediate medical attention and special treatment needed No data available

### **SECTION 5: Firefighting measures**

### 5.1 Extinguishing media

#### Suitable extinguishing media

Carbon dioxide (CO2) Foam Dry powder

### Unsuitable extinguishing media

For this substance/mixture no limitations of extinguishing agents are given.

# 5.2 Special hazards arising from the substance or mixture

Carbon oxides

Combustible.

Pay attention to flashback.

Vapors are heavier than air and may spread along floors.

Development of hazardous combustion gases or vapours possible in the event of fire. Forms explosive mixtures with air at ambient temperatures.

#### **5.3** Advice for firefighters

In the event of fire, wear self-contained breathing apparatus.

#### 5.4 Further information

Remove container from danger zone and cool with water. Prevent fire extinguishing water from contaminating surface water or the ground water system.



### **SECTION 6: Accidental release measures**

### 6.1 Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Do not breathe vapors, aerosols. Avoid substance contact. Ensure adequate ventilation. Keep away from heat and sources of ignition. Evacuate the danger area, observe emergency procedures, consult an expert. For personal protection see section 8.

### 6.2 Environmental precautions

Do not let product enter drains. Risk of explosion.

### 6.3 Methods and materials for containment and cleaning up

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up with liquid-absorbent material (e.g. Chemizorb®). Dispose of properly. Clean up affected area.

### 6.4 Reference to other sections

For disposal see section 13.

# **SECTION 7: Handling and storage**

### 7.1 Precautions for safe handling

### Advice on safe handling

Work under hood. Do not inhale substance/mixture. Avoid generation of vapours/aerosols.

### Advice on protection against fire and explosion

Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharge.

### **Hygiene measures**

Change contaminated clothing. Preventive skin protection recommended. Wash hands after working with substance.

For precautions see section 2.2.

### 7.2 Conditions for safe storage, including any incompatibilities

#### Storage conditions

Keep container tightly closed in a dry and well-ventilated place. Keep away from heat and sources of ignition.

#### Storage class

Storage class (TRGS 510): 3: Flammable liquids

#### 7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

### **SECTION 8: Exposure controls/personal protection**

#### 8.1 Control parameters

Ingredients with workplace control parameters



Component	CAS-No.	Value	Control parameters	Basis
acetone	67-64-1	TWA	250 ppm	USA. ACGIH Threshold Limit Values (TLV)
	Remarks	Not classifi	able as a humar	n carcinogen
		STEL	500 ppm	USA. ACGIH Threshold Limit Values (TLV)
		Not classifi	able as a humar	n carcinogen
		TWA	250 ppm 590 mg/m3	USA. NIOSH Recommended Exposure Limits
		TWA	1,000 ppm 2,400 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		С	3,000 ppm	California permissible exposure limits for chemical contaminants (Title 8, Article 107)
		PEL	500 ppm 1,200 mg/m3	California permissible exposure limits for chemical contaminants (Title 8, Article 107)
		STEL	750 ppm 1,780 mg/m3	California permissible exposure limits for chemical contaminants (Title 8, Article 107)

**Biological occupational exposure limits** 

Component	CAS-No.	Parameters	Value	Biological specimen	Basis
acetone	67-64-1	Acetone	25 mg/l	Urine	ACGIH - Biological Exposure Indices (BEI)
	Remarks	End of shift (As soon as possible after exposure ceases)			oosure ceases)

**Predicted No Effect Concentration (PNEC)** 

Treateted its Effect concentration	11120)
Compartment	Value
Soil	33.3 mg/kg
Sea water	1.06 mg/l
Fresh water	10.6 mg/l
Sea sediment	3.04 mg/kg
Fresh water sediment	30.4 mg/kg
Onsite sewage treatment plant	100 mg/l

# 8.2 Exposure controls

### **Appropriate engineering controls**

Change contaminated clothing. Preventive skin protection recommended. Wash hands after working with substance.

# **Personal protective equipment**

### **Eye/face protection**

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses



#### Skin protection

This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).

Full contact

Material: butyl-rubber

Minimum layer thickness: 0.7 mm Break through time: 480 min

Material tested:Butoject® (KCL 898)

This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell,

Internet: www.kcl.de).

Splash contact

Material: Latex gloves

Minimum layer thickness: 0.6 mm Break through time: 10 min

Material tested:Lapren® (KCL 706 / Aldrich Z677558, Size M)

### **Body Protection**

Flame retardant antistatic protective clothing.

### **Respiratory protection**

required when vapours/aerosols are generated.

Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system.

### **Control of environmental exposure**

Do not let product enter drains. Risk of explosion.

### **SECTION 9: Physical and chemical properties**

### Information on basic physical and chemical properties

a) Appearance Form: clear, liquid

Color: colorless

b) Odor pungent, weakly aromatic

c) Odor Threshold 0.1 ppm

d) pH 5 - 6 at 395 g/l at 20 °C (68 °F)

e) Melting point/range: -94 °C (-137 °F) - lit.

point/freezing point

f) Initial boiling point 56 °C 133 °F at 1,013 hPa - lit.

and boiling range

g) Flash point -17.0 °C (1.4 °F) - closed cup

h) Evaporation rate No data availablei) Flammability (solid, No data available

gas)

j) Upper/lower Upper explosion limit: 13 %(V) flammability or Lower explosion limit: 2 %(V)

explosive limits

k) Vapor pressure 245.3 hPa at 20.0 °C (68.0 °F)

I) Vapor density No data available

m) Density 0.791 g/cm3 at 25 °C (77 °F) - lit.

Relative density No data available

n) Water solubility soluble, in all proportions

o) Partition coefficient: No data available

n-octanol/water

p) Autoignition 465.0 °C (869.0 °F) temperature

q) Decomposition temperature

Distillable in an undecomposed state at normal pressure.

r) Viscosity No data availables) Explosive properties No data available

t) Oxidizing properties none

# 9.2 Other safety information

Conductivity 0.01  $\mu$ S/cm at 20 °C (68 °F) Surface tension 23.2 mN/m at 20.0 °C (68.0 °F)

### **SECTION 10: Stability and reactivity**

### 10.1 Reactivity

Vapors may form explosive mixture with air.

### 10.2 Chemical stability

The product is chemically stable under standard ambient conditions (room temperature) .

#### 10.3 Possibility of hazardous reactions

Risk of ignition or formation of inflammable gases or vapours with:

chromosulfuric acid

chromyl chloride

ethanolamine

Fluorine

Strong oxidizing agents

strong reducing agents

Nitric acid

chromium(VI) oxide

Risk of explosion with:

nonmetallic oxyhalides

halogen-halogen compounds

Chloroform

nitrating acid

nitrosyl compounds



hydrogen peroxide
halogen oxides
organic nitro compounds
peroxi compounds
Exothermic reaction with:
Bromine
Alkali metals
alkali hydroxides
Halogenated hydrocarbon
Sulfur dichloride
phosphorous oxichloride

### 10.4 Conditions to avoid

Warming.

# 10.5 Incompatible materials

rubber, various plastics

### 10.6 Hazardous decomposition products

In the event of fire: see section 5

### **SECTION 11: Toxicological information**

### 11.1 Information on toxicological effects

### **Acute toxicity**

LD50 Oral - Rat - female - 5,800 mg/kg

Remarks: (ECHA)

LC50 Inhalation - Rat - 4 h - 76 mg/l - vapor

Remarks: Unconsciousness

Drowsiness Dizziness

(External MSDS)

LD50 Dermal - Rabbit - 20,000 mg/kg

Remarks: (IUCLID) No data available

# Skin corrosion/irritation

Skin - Rabbit

Result: Mild skin irritation - 24 h

(Draize Test) Remarks: (RTECS)

# Serious eye damage/eye irritation

Eyes - Rabbit

Result: Eye irritation - 24 h

(Draize Test) Remarks: (RTECS)

### Respiratory or skin sensitization

Maximization Test - Guinea pig Result: Not a skin sensitizer.

Remarks: (ECHA)

Chronic exposure may cause dermatitis.



#### Germ cell mutagenicity

Test Type: Mutagenicity (mammal cell test): chromosome aberration.

Test system: Chinese hamster ovary cells

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 473

Result: negative Test Type: Ames test

Test system: Salmonella typhimurium

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: negative

Test Type: In vitro mammalian cell gene mutation test

Test system: Mouse lymphoma test

Metabolic activation: without metabolic activation

Method: OECD Test Guideline 476

Result: negative

# Carcinogenicity

IARC: No ingredient of this product present at levels greater than or equal to 0.1% is

identified as probable, possible or confirmed human carcinogen by IARC.

NTP: No ingredient of this product present at levels greater than or equal to 0.1% is

identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is

on OSHA's list of regulated carcinogens.

### Reproductive toxicity

No data available

### Specific target organ toxicity - single exposure

Inhalation - May cause drowsiness or dizziness. - Narcotic effects

# Specific target organ toxicity - repeated exposure

No data available

### **Aspiration hazard**

No data available

#### 11.2 Additional Information

RTECS: AL3150000

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

After absorption:

Headache

Salivation

Nausea

Vomiting

Dizziness

narcosis

Coma

Other dangerous properties can not be excluded.

Handle in accordance with good industrial hygiene and safety practice.

Kidney - Irregularities - Based on Human Evidence

Skin - Dermatitis - Based on Human Evidence

Kidney - Irregularities - Based on Human Evidence

Skin - Dermatitis - Based on Human Evidence

### **SECTION 12: Ecological information**

### 12.1 Toxicity

Toxicity to fish flow-through test LC50 - Pimephales promelas (fathead minnow) -

6,210 mg/l - 96 h

(OECD Test Guideline 203)

Toxicity to daphnia and other aquatic

static test LC50 - Daphnia pulex (Water flea) - 8,800 mg/l - 48 h

and other aquation invertebrates

Remarks: (ECHA)

Toxicity to algae

static test NOEC - M.aeruginosa - 530 mg/l - 8 d

(DIN 38412)

Remarks: (maximum permissible toxic concentration)

(IUCLID)

Toxicity to bacteria

static test EC50 - activated sludge - 61.15 mg/l - 30 min

(OECD Test Guideline 209)

### 12.2 Persistence and degradability

Biodegradability aerobic - Exposure time 28 d

Result: 91 % - Readily biodegradable.

(OECD Test Guideline 301B)

Biochemical Oxygen 1,850 mg/g

Demand (BOD) Remarks: (IUCLID)

Chemical Oxygen 2,070 mg/g

Demand (COD) Remarks: (IUCLID)

Theoretical oxygen 2,200 mg/g demand Remarks: (Lit.)

### 12.3 Bioaccumulative potential

Does not bioaccumulate.

# 12.4 Mobility in soil

No data available

#### 12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

### 12.6 Endocrine disrupting properties

No data available

#### 12.7 Other adverse effects



### **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

#### **Product**

Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself. See www.retrologistik.com for processes regarding the return of chemicals and containers, or contact us there if you have further questions.

# **SECTION 14: Transport information**

DOT (US)

UN number: 1090 Class: 3 Packing group: II

Proper shipping name: Acetone Reportable Quantity (RQ): 5000 lbs Poison Inhalation Hazard: No

**IMDG** 

UN number: 1090 Class: 3 Packing group: II EMS-No: F-E, S-D

Proper shipping name: ACETONE

**IATA** 

UN number: 1090 Class: 3 Packing group: II

Proper shipping name: Acetone

### **SECTION 15: Regulatory information**

### **SARA 302 Components**

This material does not contain any components with a section 302 EHS TPQ.

#### **SARA 313 Components**

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

# SARA 311/312 Hazards

Fire Hazard, Acute Health Hazard, Chronic Health Hazard

### **Massachusetts Right To Know Components**

No components are subject to the Massachusetts Right to Know Act.

#### **SECTION 16: Other information**

#### **Further information**

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See



www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

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Base Oil and Additives 20206010K510, 584365-00, 97CC38 Hydraulic fluid

> 22777 Springwoods Village Parkway Spring, TX. 77389 USA

> > 609-737-4411 800-424-9300 or 703-527-3887 CHEMTREC 800-662-4525 http://www.exxon.com, http://www.mobil.com

This material is not hazardous according to regulatory guidelines (see (M)SDS Section 15).

None as defined under 29 CFR 1910.1200.

No significant hazards.

High-pressure injection under skin may cause serious damage. Excessive exposure may result in eye, skin, or respiratory irritation.

No significant hazards.

Health: 0 Flammability: 1 Reactivity: 0 Health: 0 Flammability: 1 Reactivity: 0

This material should not be used for any other purpose than the intended use in Section 1 without expert advice. Health studies have shown that chemical exposure may cause potential human health risks which may vary from person to person.



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This material is defined as a mixture.

HYDROTREATED LIGHT NAPHTHENIC DISTILLATE (PETROLEUM)	64742-53-6	20 - < 30%	H304
NAPHTHALENESULFONIC ACID, DINONYL-, CALCIUM SALT	57855-77-3	0.1 - < 1%	H315, H318, H317
ZINC ALKYL DITHIOPHOSPHATE	68649-42-3	1 - 2.5%	H319(2A), H401, H411

<sup>\*</sup> All concentrations are percent by weight unless material is a gas. Gas concentrations are in percent by volume.

As per paragraph (i) of 29 CFR 1910.1200, formulation is considered a trade secret and specific chemical identity and exact percentage (concentration) of composition may have been withheld. Specific chemical identity and exact percentage composition will be provided to health professionals, employees, or designated representatives in accordance with applicable provisions of paragraph (i).

Remove from further exposure. For those providing assistance, avoid exposure to yourself or others. Use adequate respiratory protection. If respiratory irritation, dizziness, nausea, or unconsciousness occurs, seek immediate medical assistance. If breathing has stopped, assist ventilation with a mechanical device or use mouth-to-mouth resuscitation.

Wash contact areas with soap and water. If product is injected into or under the skin, or into any part of the body, regardless of the appearance of the wound or its size, the individual should be evaluated immediately by a physician as a surgical emergency. Even though initial symptoms from high pressure injection may be minimal or absent, early surgical treatment within the first few hours may significantly reduce the ultimate extent of injury.

Flush thoroughly with water. If irritation occurs, get medical assistance.

First aid is normally not required. Seek medical attention if discomfort occurs.

Use water fog, foam, dry chemical or carbon dioxide (CO2) to extinguish

flames.

Straight Streams of Water



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Evacuate area. Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water supply. Firefighters should use standard protective equipment and in enclosed spaces, self-contained breathing apparatus (SCBA). Use water spray to cool fire exposed surfaces and to protect personnel.

Pressurized mists may form a flammable mixture.

Smoke, Fume, Sulfur oxides, Aldehydes, Oxides of carbon, Incomplete

combustion products

>166°C (331°F) [ASTM D-92]

LEL: 0.9 UEL: 7.0

N/D

In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations. US regulations require reporting releases of this material to the environment which exceed the applicable reportable quantity or oil spills which could reach any waterway including intermittent dry creeks. The National Response Center can be reached at (800)424-8802.

Avoid contact with spilled material. See Section 5 for fire fighting information. See the Hazard Identification Section for Significant Hazards. See Section 4 for First Aid Advice. See Section 8 for advice on the minimum requirements for personal protective equipment. Additional protective measures may be necessary, depending on the specific circumstances and/or the expert judgment of the emergency responders.

For emergency responders: Respiratory protection: respiratory protection will be necessary only in special cases, e.g., formation of mists. Half-face or full-face respirator with filter(s) for dust/organic vapor or Self Contained Breathing Apparatus (SCBA) can be used depending on the size of spill and potential level of exposure. If the exposure cannot be completely characterized or an oxygen deficient atmosphere is possible or anticipated, SCBA is recommended. Work gloves that are resistant to hydrocarbons are recommended. Gloves made of polyvinyl acetate (PVA) are not water-resistant and are not suitable for emergency use. Chemical goggles are recommended if splashes or contact with eyes is possible. Small spills: normal antistatic work clothes are usually adequate. Large spills: full body suit of chemical resistant, antistatic material is recommended.

Stop leak if you can do it without risk. Recover by pumping or with suitable absorbent.

Stop leak if you can do it without risk. Confine the spill immediately with booms. Warn other shipping. Remove from the surface by skimming or with suitable absorbents. Seek the advice of a specialist before using dispersants.

Water spill and land spill recommendations are based on the most likely spill scenario for this material; however, geographic conditions, wind, temperature, (and in the case of a water spill) wave and current direction and speed may greatly influence the appropriate action to be taken. For this reason, local experts should be



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consulted. Note: Local regulations may prescribe or limit action to be taken.

Large Spills: Dike far ahead of liquid spill for later recovery and disposal. Prevent entry into waterways, sewers, basements or confined areas.

Prevent small spills and leakage to avoid slip hazard. Material can accumulate static charges which may cause an electrical spark (ignition source). When the material is handled in bulk, an electrical spark could ignite any flammable vapors from liquids or residues that may be present (e.g., during switch-loading operations). Use proper bonding and/or ground procedures. However, bonding and grounds may not eliminate the hazard from static accumulation. Consult local applicable standards for guidance. Additional references include American Petroleum Institute 2003 (Protection Against Ignitions Arising out of Static, Lightning and Stray Currents) or National Fire Protection Agency 77 (Recommended Practice on Static Electricity) or CENELEC CLC/TR 50404 (Electrostatics - Code of practice for the avoidance of hazards due to static electricity).

This material is a static accumulator.

The container choice, for example storage vessel, may effect static accumulation and dissipation. Do not store in open or unlabelled containers. Keep away from incompatible materials.

HYDROTREATED LIGHT NAPHTHENIC DISTILLATE (PETROLEUM)	Mist.	TWA	5 mg/m3	N/A	OSHA Z1
HYDROTREATED LIGHT NAPHTHENIC DISTILLATE (PETROLEUM)	Inhalable fraction.	TWA	5 mg/m3	N/A	ACGIH
HYDROTREATED LIGHT NAPHTHENIC DISTILLATE (PETROLEUM)	Mist.	TWA	5 mg/m3	N/A	ACGIH

When mists/aerosols

can occur the following are recommended: 5 mg/m<sup>3</sup> - ACGIH TLV (inhalable fraction), 5 mg/m<sup>3</sup> - OSHA PEL.

NOTE: Limits/standards shown for guidance only. Follow applicable regulations.

No biological limits allocated.



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The level of protection and types of controls necessary will vary depending upon potential exposure conditions. Control measures to consider:

No special requirements under ordinary conditions of use and with adequate ventilation.

Personal protective equipment selections vary based on potential exposure conditions such as applications, handling practices, concentration and ventilation. Information on the selection of protective equipment for use with this material, as provided below, is based upon intended, normal usage.

If engineering controls do not maintain airborne contaminant concentrations at a level which is adequate to protect worker health, an approved respirator may be appropriate. Respirator selection, use, and maintenance must be in accordance with regulatory requirements, if applicable. Types of respirators to be considered for this material include:

No special requirements under ordinary conditions of use and with adequate ventilation.

For high airborne concentrations, use an approved supplied-air respirator, operated in positive pressure mode. Supplied air respirators with an escape bottle may be appropriate when oxygen levels are inadequate, gas/vapor warning properties are poor, or if air purifying filter capacity/rating may be exceeded.

Any specific glove information provided is based on published literature and glove manufacturer data. Glove suitability and breakthrough time will differ depending on the specific use conditions. Contact the glove manufacturer for specific advice on glove selection and breakthrough times for your use conditions. Inspect and replace worn or damaged gloves. The types of gloves to be considered for this material include:

No protection is ordinarily required under normal conditions of use.

If contact is likely, safety glasses with side shields are recommended.

Any specific clothing information provided is based on published literature or manufacturer data. The types of clothing to be considered for this material include:

No skin protection is ordinarily required under normal conditions of use. In accordance with good industrial hygiene practices, precautions should be taken to avoid skin contact.

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Discard contaminated clothing and footwear that cannot be cleaned. Practice good housekeeping.

Comply with applicable environmental regulations limiting discharge to air, water and soil. Protect the environment by applying appropriate control measures to prevent or limit emissions.



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```
Liquid
  Amber
  Characteristic
            N/D
                       0.879
                               [ASTM D4052]
                    N/A
                   >166°C (331°F) [ASTM D-92]
                                            LEL: 0.9
                                                         UEL: 7.0
                     N/D
                  > 316°C (600°F)
                        N/D
                   > 2 at 101 kPa
            < 0.013 kPa (0.1 mm Hg) at 20 °C
                                  N/D
N/A
                                           > 3.5
               Negligible
      46 cSt (46 mm2/sec) at 40 °C | 7.8 cSt (7.8 mm2/sec) at 100°C [ASTM D 445]
                See Hazards Identification Section.
           N/D
          N/A
          -36°C (-33°F) [ASTM D97]
```

< 3 %wt

See sub-sections below.

Material is stable under normal conditions.

Excessive heat.

Strong oxidizers

Material does not decompose at ambient temperatures.

Hazardous polymerization will not occur.

Acute Toxicity: No enmaterial.	d point data for	Minimally Toxic. Based on assessment of the components.
Irritation: No end point	data for material.	Negligible hazard at ambient/normal handling temperatures.



**BOBCAT HYDRAULIC OIL 15 SPECIAL** Product Name:

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Acute Toxicity: No end point data for Minimally Toxic. Based on assessment of the components. material. Acute Toxicity: No end point data for Minimally Toxic. Based on assessment of the components. material. Skin Corrosion/Irritation: No end point data Negligible irritation to skin at ambient temperatures. Based on for material. assessment of the components. Serious Eve Damage/Irritation: No end point May cause mild, short-lasting discomfort to eyes, Based on data for material. assessment of the components. Respiratory Sensitization: No end point data Not expected to be a respiratory sensitizer. for material. Skin Sensitization: No end point data for Not expected to be a skin sensitizer. Based on assessment of the material. components. Not expected to be an aspiration hazard. Based on Data available. physico-chemical properties of the material. No end point data Not expected to be a germ cell mutagen. Based on assessment of for material. the components. No end point data for Not expected to cause cancer. Based on assessment of the components. material. No end point data Not expected to be a reproductive toxicant. Based on assessment for material. of the components. No end point data for material. Not expected to cause harm to breast-fed children. Single Exposure: No end point data for Not expected to cause organ damage from a single exposure. material. Repeated Exposure: No end point data for Not expected to cause organ damage from prolonged or repeated exposure. Based on assessment of the components. material.

ZINC ALKYL DITHIOPHOSPHATE	Dermal Lethality: LD50 > 2000 mg/kg (Rabbit); Oral Lethality: LD50
	> 2000 mg/kg (Rat)

Base oil severely refined: Not carcinogenic in animal studies. Representative material passes IP-346, Modified Ames test, and/or other screening tests. Dermal and inhalation studies showed minimal effects; lung non-specific infiltration of immune cells, oil deposition and minimal granuloma formation. Not sensitizing in test animals.

None.

2 = NTP SUS



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The information given is based on data available for the material, the components of the material, and similar materials.

Material -- Not expected to be harmful to aquatic organisms.

Base oil component -- Low solubility and floats and is expected to migrate from water to the land. Expected to partition to sediment and wastewater solids.

Base oil component -- Expected to be inherently biodegradable

Base oil component -- Has the potential to bioaccumulate, however metabolism or physical properties may reduce the bioconcentration or limit bioavailability.

Disposal recommendations based on material as supplied. Disposal must be in accordance with current applicable laws and regulations, and material characteristics at time of disposal.

Product is suitable for burning in an enclosed controlled burner for fuel value or disposal by supervised incineration at very high temperatures to prevent formation of undesirable combustion products. Protect the environment. Dispose of used oil at designated sites. Minimize skin contact. Do not mix used oils with solvents, brake fluids or coolants.

RCRA Information: The unused product, in our opinion, is not specifically listed by the EPA as a hazardous waste (40 CFR, Part 261D), nor is it formulated to contain materials which are listed as hazardous wastes. It does not exhibit the hazardous characteristics of ignitability, corrositivity or reactivity and is not formulated with contaminants as determined by the Toxicity Characteristic Leaching Procedure (TCLP). However, used product may be regulated.

Empty Container Warning (where applicable): Empty containers may contain residue and can be dangerous. Do not attempt to refill or clean containers without proper instructions. Empty drums should be completely drained and safely stored until appropriately reconditioned or disposed. Empty containers should be taken for recycling, recovery, or disposal through suitably qualified or licensed contractor and in accordance with governmental regulations. DO NOT PRESSURISE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION.



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THEY MAY EXPLODE AND CAUSE INJURY OR DEATH.

Not Regulated for Land Transport

Not Regulated for Land Transport

Not Regulated for Sea Transport according to IMDG-Code

No

Not Regulated for Air Transport

This material is not considered hazardous in accordance with

OSHA HazCom 2012, 29 CFR 1910.1200.

AICS, DSL, ENCS, IECSC,

KECI, PICCS, TSCA

This material contains no extremely hazardous substances.

None.

ZINC ALKYL	68649-42-3	1 - 2.5%
DITHIOPHOSPHATE		

HYDROTREATED LIGHT NAPHTHENIC DISTILLATE (PETROLEUM)	64742-53-6	1, 4, 13, 17, 18
ZINC ALKYL DITHIOPHOSPHATE	68649-42-3	13, 15, 17, 19



Product Name: BOBCAT HYDRAULIC OIL 15 SPECIAL

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--REGULATORY LISTS SEARCHED--

11 = CA P65 REPRO 1 = ACGIH ALL 6 = TSCA 5a2 16 = MN RTK 2 = ACGIH A1 7 = TSCA 5e 12 = CA RTK 17 = NJ RTK 3 = ACGIH A2 8 = TSCA 6 13 = IL RTK 18 = PA RTK 4 = OSHA Z 9 = TSCA 12b 14 = LA RTK 19 = RI RTK

5 = TSCA 4 10 = CA P65 CARC 15 = MI 293

Code key: CARC=Carcinogen; REPRO=Reproductive

N/D = Not determined, N/A = Not applicable

H304: May be fatal if swallowed and enters airways; Aspiration, Cat 1

H315: Causes skin irritation; Skin Corr/Irritation, Cat 2

H317: May cause allergic skin reaction; Skin Sensitization, Cat 1 H318: Causes serious eye damage; Serious Eye Damage/Irr, Cat 1 H319(2A): Causes serious eye irritation; Serious Eye Damage/Irr, Cat 2A

H401: Toxic to aquatic life; Acute Env Tox, Cat 2

H411: Toxic to aquatic life with long lasting effects; Chronic Env Tox, Cat 2

Updates made in accordance with implementation of GHS requirements.

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DGN: 7123448XUS (1006122)

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Issue Date 21-Aug-2012 Revision Date 3-Mar-2015 Version 1

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Identifier** 

Product Name Smart Strip Pro

Other Means of Identification

SDS# DCI-66

Recommended Use of the Chemical and Restrictions on Use

**Recommended Use** Paint remover.

**Details of the Supplier of the Safety Data Sheet** 

Supplier Address Dumond Chemicals, Inc. 83 General Warren Blvd Suite 190 Malvern, PA 19355

**Emergency Telephone Number** 

**Company Phone Number** 1-609-655-7700

**Emergency Telephone** INFOTRAC 1-352-323-3500 (International)

1-800-535-5053 (North America)

## 2. HAZARDS IDENTIFICATION

## Classification

Skin corrosion/irritation Category 2

Signal Word Warning

**Hazard Statements** 

Causes skin irritation



Appearance White paste

Physical State Paste

**Odor** Slight characteristic odor

Precautionary Statements - Prevention
Wash face, hands and any exposed skin the

Wash face, hands and any exposed skin thoroughly after handling Wear protective gloves/protective clothing/eye protection/face protection

#### **Precautionary Statements - Response**

IF ON SKIN: Wash with plenty of soap and water If skin irritation occurs: Get medical advice/attention Take off contaminated clothing and wash before reuse

#### **Hazards Not Otherwise Classified (HNOC)**

May be harmful if swallowed May be harmful in contact with skin

#### **Other Hazards**

Toxic to aquatic life with long lasting effects Toxic to aquatic life

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
Water	7732-18-5	40-60
Benzyl alcohol	100-51-6	30-50
Titanium dioxide	13463-67-7	1-5
Formic acid	64-18-6	1-5

## 4. FIRST AID MEASURES

#### **First Aid Measures**

**Inhalation** Remove to fresh air. Oxygen or artificial respiration if needed. Get medical attention if

necessary.

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get

medical attention if necessary.

Ingestion If conscious give 2 glasses of water to dilute. Do NOT induce vomiting. Never give anything

by mouth to an unconscious person. Get medical attention if necessary.

**Skin Contact** Wash thoroughly with soap and water until no traces of the chemical remain. Remove

contaminated clothing and shoes. Get medical attention if irritation occurs.

#### Most Important Symptoms and Effects, both Acute and Delayed

**Symptoms** May cause skin and eye irritation. May be harmful if absorbed through the skin. Mists and

vapors cause irritation of the eyes, mucous membranes, and upper respiratory tract.

#### Indication of any Immediate Medical Attention and Special Treatment Needed

Note to Physicians Treat symptomatically.

#### 5. FIRE-FIGHTING MEASURES

#### **Suitable Extinguishing Media**

Water spray (fog). Foam. Dry chemical or CO2.

Unsuitable Extinguishing Media Not determined.

### **Specific Hazards Arising from the Chemical**

Sealed containers may rupture when heated. At elevated temperatures, vapors may form explosive mixtures with air in confined areas. Decomposition may be hazardous. Cool containers exposed to flames with water until well after the fire is out.

#### **Protective Equipment and Precautions for Firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

#### 6. ACCIDENTAL RELEASE MEASURES

#### Personal Precautions, Protective Equipment and Emergency Procedures

**Personal Precautions**Wear appropriate protective clothing and equipment to prevent contact.

Environmental Precautions See Section 12 for additional ecological information. Do not allow into any sewer, on the

ground or into any body of water.

#### Methods and Material for Containment and Cleaning Up

**Methods for Containment** Prevent further leakage or spillage if safe to do so.

**Methods for Cleaning Up**Scoop up and collect with an inert absorbent and place into closable containers for

disposal. Wash spill area with plenty of water. Spills and releases may have to be reported

to Federal and/or local authorities. See section 15.

#### 7. HANDLING AND STORAGE

#### **Precautions for Safe Handling**

Advice on Safe Handling Avoid contact with skin, eyes or clothing. Avoid breathing vapors or mists. Use personal

protective equipment as required. Remove Personal Protective Equipment immediately after handling this product. Wash thoroughly after handling before eating, drinking, smoking, or using toilet facilities. Protect container from physical damage. Follow all SDS/label precautions even after container is emptied because it may retain product residues.

#### Conditions for Safe Storage, Including any Incompatibilities

**Storage Conditions** Keep in a dry, cool and well-ventilated place. Keep away from oxidizers and incompatible

materials.

Incompatible Materials Strong acids. Bases. strong oxidizers and reducing agents.

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### **Exposure Guidelines**

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Titanium dioxide 13463-67-7	TWA: 10 mg/m³ In Powder Form	TWA: 15 mg/m³ total dust (vacated) TWA: 10 mg/m³ total dust	IDLH: 5000 mg/m³
Formic acid 64-18-6	STEL: 10 ppm TWA: 5 ppm	TWA: 5 ppm TWA: 9 mg/m³ (vacated) TWA: 5 ppm (vacated) TWA: 9 mg/m³	IDLH: 30 ppm TWA: 5 ppm TWA: 9 mg/m³

#### **Appropriate Engineering Controls**

**Engineering Controls** For operations where contact can occur, a safety shower and an eye wash facility should

be available. Good general room ventilation (equivalent to outdoors) should be adequate

under normal conditions.

#### Individual Protection Measures, such as Personal Protective Equipment

Eye/Face Protection Chemical safety goggles/faceshield. Do not wear contact lenses.

**Skin and Body Protection** Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls,

as appropriate, to prevent skin contact. Butyl rubber or other impervious gloves are

required.

Respiratory Protection None needed under normal use conditions with adequate ventilation. If the occupational

exposure limits are exceeded, a NIOSH approved respirator with acid gas cartridges or supplied air respirator appropriate for the form and concentration of the contaminants should be used. Selection and use of respiratory equipment must be in accordance with

Odor

Odor threshold

Slight characteristic odor

28.2 ppm (formic acid)

OSHA 1910.134 and good industrial hygiene practice.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Information on Basic Physical and Chemical Properties

Physical State Paste
Appearance White paste
Color White

Property Values Remarks • Method

pH 2

Melting point/freezing pointNot availableBoiling point/boiling rangeNot availableFlash pointNone

Evaporation rate Not determined Flammability (solid, gas) Not determined

Flammability limits in air

Upper flammability limits
Lower flammability limit
Vapor pressure
Vapor density

Not available
Not determined
Not determined

Specific gravity 1.085

Water solubility Partially soluble Solubility in other solvents Not determined Partition coefficient Not available **Autoignition temperature** Not determined **Decomposition temperature** Not determined Kinematic viscosity Not determined Dynamic viscosity Not determined **Explosive properties** Not determined **Oxidizing Properties** Not determined

## Other Information

 VOC Content
 35.2 g/l

 VOC Content (%)
 5%

 VOC Content
 0.5 lbs/gal

### 10. STABILITY AND REACTIVITY

·

#### Reactivity

Not reactive under normal conditions

#### **Chemical Stability**

Stable under recommended storage conditions.

#### **Possibility of Hazardous Reactions**

None under normal processing.

#### **Conditions to Avoid**

Keep out of reach of children.

#### **Incompatible Materials**

Strong acids. Bases. strong oxidizers and reducing agents.

### **Hazardous Decomposition Products**

Carbon monoxide. Carbon dioxide (CO2). Nitrogen oxides (NOx). May oxidize with air to form benzaldehyde and benzoic acid.

### 11. TOXICOLOGICAL INFORMATION

#### Information on Likely Routes of Exposure

**Product Information** The product has not been tested

**Inhalation** Avoid breathing vapors or mists.

**Eye Contact** Avoid contact with eyes.

**Skin Contact** May be harmful in contact with skin. Causes skin irritation.

**Ingestion** May be harmful if swallowed.

#### **Component Information**

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Water 7732-18-5	> 90 mL/kg (Rat)	-	-
Benzyl alcohol 100-51-6	= 1230 mg/kg ( Rat )	= 2000 mg/kg(Rabbit)	= 8.8 mg/L (Rat)4 h
Titanium dioxide 13463-67-7	> 10000 mg/kg(Rat)	-	-
Formic acid 64-18-6	= 730 mg/kg ( Rat )	-	-

#### Information on Physical, Chemical and Toxicological Effects

Symptoms May cause skin and eye irritation. May be harmful if absorbed through the skin. Mists and

vapors cause irritation of the eyes, mucous membranes, and upper respiratory tract.

## Delayed and Immediate Effects as well as Chronic Effects from Short and Long-term Exposure

**Carcinogenicity** Titanium dioxide is a possible carcinogen when it appears as a respirable dust.

Chemical Name	ACGIH	IARC	NTP	OSHA
Titanium dioxide		Group 2B		X
13463-67-7		•		

### **Numerical Measures of Toxicity- Product**

Not determined

The following values are calculated based on chapter 3.1 of the GHS document .

ATEmix (oral) 2708 mg/kg
ATEmix (dermal) 5000 mg/kg
ATEmix (inhalation-dust/mist) 22 mg/l

## 12. ECOLOGICAL INFORMATION

#### **Ecotoxicity**

Toxic to aquatic life with long lasting effects

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Benzyl alcohol 100-51-6	35: 3 h Anabaena variabilis mg/L EC50	460: 96 h Pimephales promelas mg/L LC50 static 10: 96 h Lepomis macrochirus mg/L LC50 static	EC50 = 50 mg/L 5 min EC50 = 63.7 mg/L 15 min EC50 = 63.7 mg/L 5 min EC50 = 71.4 mg/L 30 min	23: 48 h water flea mg/L EC50
Formic acid 64-18-6	25: 96 h Desmodesmus subspicatus mg/L EC50 26.9: 72 h Desmodesmus subspicatus mg/L EC50	175: 24 h Lepomis macrochirus mg/L LC50 static	EC50 = 46.7 mg/L 17 h	120: 48 h Daphnia magna mg/L EC50 138 - 165.6: 48 h Daphnia magna mg/L EC50 Static

### Persistence and Degradability

Material is readily biodegradable.

#### **Bioaccumulation**

The product has low potential for bioaccumulation.

### **Mobility**

Not determined.

Chemical Name	Partition coefficient
Benzyl alcohol 100-51-6	1.1
Formic acid 64-18-6	-0.54

Other Adverse Effects Not determined

## 13. DISPOSAL CONSIDERATIONS

### **Waste Treatment Methods**

Disposal of Wastes Disposal should be in accordance with applicable regional, national and local laws and

regulations.

Contaminated Packaging Disposal should be in accordance with applicable regional, national and local laws and

regulations.

Chemical Name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
Formic acid	U123	Included in waste streams:		U123
64-18-6		K009, K010		

Chemical Name	California Hazardous Waste Status
Formic acid	Toxic
64-18-6	Corrosive

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## 14. TRANSPORT INFORMATION

Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances Note

Not regulated <u>DOT</u>

<u>IATA</u> Not regulated

<u>IMDG</u> Not regulated

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## 15. REGULATORY INFORMATION

#### **International Inventories**

**TSCA** Listed **DSL** Listed

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Expansion of Existing Chemical Substances IECSC

Obline Input Expansion of Existing Chemical Substances IECSC

- China Inventory of Existing Chemical Substances KECL -

Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

### US Federal Regulations

Chemical Name	CAS No	Weight-%	SARA 313 - Threshold Values %
Formic acid - 64-18-6	64-18-6	1-5	1.0

## SARA 311/312 Hazard Categories

Acute health hazard Yes **Chronic Health Hazard** Yes Fire hazard No Sudden release of pressure hazard No **Reactive Hazard** No

Chemical Name	CWA - Reportable Quantities	CWA - Toxi	c Pollutants	CWA - Priority Po	llutants	CWA - Hazardous Substances
Formic acid 64-18-6	5000 lb					Х
Chemical Name	Hazardous Subst	ances RQs	CERC	LA/SARA RQ	Re	portable Quantity (RQ)
Formic acid 64-18-6	5000 lb	)				RQ 5000 lb final RQ RQ 2270 kg final RQ

## **US State Regulations**

Chemical Name	California Proposition 65
Titanium dioxide - 13463-67-7	Carcinogen

## U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Benzyl alcohol 100-51-6		X	X
Titanium dioxide 13463-67-7	Х	X	Х
Formic acid 64-18-6	Х	X	Х

## U.S. EPA Label Information

## **16. OTHER INFORMATION**

NFPAHealth HazardsFlammabilityInstabilitySpecial Hazards210Not determinedHMISHealth HazardsFlammabilityPhysical HazardsPersonal ProtectionNot determinedNot determinedNot determinedNot determined

Issue Date21-Aug-2012Revision Date12-Dec-2012Revision NoteNew format

#### **Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet** 



Version 5.0 Revision Date 08/15/2017 Print Date 01/22/2018

### **SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**

Material name : BZ7385 ZEP CHERRY BOMB 095124 4/1G

Material number : 0000000001041522

Manufacturer or supplier's details

Company : Zep Inc.

Address : 1310 Seaboard Industrial Blvd., NW

Atlanta, GA 30318

Telephone : 404-352-1680

## **Emergency telephone numbers**

For SDS Information : Compliance Services 1-877-428-9937

For a Medical Emergency : 877-541-2016 Toll Free - All Calls Recorded
For a Transportation : CHEMTREC: 800-424-9300 - All Calls Recorded.

**Emergency** In the District of Columbia 202-483-7616

#### Recommended use of the chemical and restrictions on use

Recommended use : Hand Care

#### **SECTION 2. HAZARDS IDENTIFICATION**

## **Emergency Overview**

Appearance	viscous, liquid
Colour	red
Odour	like fruit

### **GHS Classification**

Not a hazardous substance or mixture.

#### **GHS** label elements

Not a hazardous substance or mixture.

#### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

### **Hazardous components**

Chemical name	CAS-No.	Concentration [%]
Distillates (petroleum), hydrotreated light	64742-47-8	>= 20 - < 30
4-Nonylphenol branched, ethoxylated	127087-87-0	>= 10 - < 20
2-aminoethanol Tallate	68440-25-5	>= 1 - < 5
White mineral oil (petroleum)	8042-47-5	>= 1 - < 5
Solvent naphtha (petroleum), heavy aliph.	64742-96-7	>= 1 - < 5
Poly(oxy-1,2-ethanediyl), .alphahydroomega	25322-68-3	>= 1 - < 5



## BZ7385 ZEP CHERRY BOMB 095124 4/1G

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hydroxy-Ethane-1,2-diol, ethoxylated

The exact percentages of disclosed substances are withheld as trade secrets.

**SECTION 4. FIRST AID MEASURES** 

General advice : Move out of dangerous area.

Show this safety data sheet to the doctor in attendance.

Do not leave the victim unattended.

If unconscious place in recovery position and seek medical

advice.

If symptoms persist, call a physician.

In case of skin contact : This product is formulated for use on skin but should always

be immediately washed off with plenty of water. Discontinue use if irritation and redness develop. If conditions persist for

more than 72 hours, consult a physician.

In case of eye contact : Rinse immediately with plenty of water for at least 15 minutes.

Remove contact lenses. Protect unharmed eye.

Keep eye wide open while rinsing.

If eye irritation persists, consult a specialist.

If swallowed : Keep respiratory tract clear.

DO NOT induce vomiting unless directed to do so by a

physician or poison control center.

Never give anything by mouth to an unconscious person.

If symptoms persist, call a physician.

Most important symptoms

and effects, both acute and

delayed

: Effects may be delayed, symptoms may include minor eye or

skin irritation.

Overexposure may cause mild eye or skin irritation.

Notes to physician : Treat symptomatically. Symptoms may be delayed.

#### **SECTION 5. FIREFIGHTING MEASURES**

Suitable extinguishing media : Alcohol-resistant foam

Carbon dioxide (CO2)

Dry chemical Water spray jet

Unsuitable extinguishing

media

: High volume water jet

Specific hazards during

firefighting

: Do not allow run-off from fire fighting to enter drains or water

courses.

Hazardous combustion

products

: Carbon dioxide (CO2)

Carbon monoxide

Smoke

Specific extinguishing

methods

: Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment.



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Further information : Collect contaminated fire extinguishing water separately. This

must not be discharged into drains.

Fire residues and contaminated fire extinguishing water must

be disposed of in accordance with local regulations.

Special protective equipment

for firefighters

: Wear self-contained breathing apparatus for firefighting if

necessary.

#### **SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and emergency procedures Material can create slippery conditions.

Use non-slip safety shoes in areas where spills or leaks can

occur.

Refer to protective measures listed in sections 7 and 8.

Environmental precautions : Prevent product from entering drains.

Prevent further leakage or spillage if safe to do so.

If the product contaminates rivers and lakes or drains inform

respective authorities.

Methods and materials for containment and cleaning up

: Wipe up with absorbent material (e.g. cloth, fleece). Keep in suitable, closed containers for disposal.

## **SECTION 7. HANDLING AND STORAGE**

Advice on safe handling : Avoid contact with eyes.

For personal protection see section 8.

Smoking, eating and drinking should be prohibited in the

application area.

Dispose of rinse water in accordance with local and national

regulations.

Conditions for safe storage : Keep container tightly closed in a dry and well-ventilated

place.

Containers which are opened must be carefully resealed and

kept upright to prevent leakage.

Materials to avoid : Oxidizing agents

#### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

## Components with workplace control parameters

Components	CAS-No.	Value type	Control	Basis
		(Form of	parameters /	
		exposure)	Permissible	
			concentration	
Distillates (petroleum),	64742-47-8	TWA	500 ppm	OSHA Z-1
hydrotreated light			2,000 mg/m3	
		TWA	400 ppm	OSHA P0
			1,600 mg/m3	



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		TWA (Mist)	5 mg/m3	OSHA Z-1
		TWA (Mist)	5 mg/m3	OSHA P0
		TWA (Mist)	5 mg/m3	NIOSH REL
		ST (Mist)	10 mg/m3	NIOSH REL
		PEL	5 mg/m3	CAL PEL
		(particulate)		
White mineral oil (petroleum)	8042-47-5	TWA (Mist)	5 mg/m3	
		STEL (Mist)	10 mg/m3	
Poly(oxy-1,2-ethanediyl), .alphahydroomega hydroxy-Ethane-1,2-diol, ethoxylated	25322-68-3	TWA (aerosol)	10 mg/m3	US WEEL
			10 mg/m3	US WEEL

**Engineering measures** : effective ventilation in all processing areas

Personal protective equipment

Respiratory protection : No personal respiratory protective equipment normally

required.

Hand protection

Remarks : No special protection is required.

Eye protection : Eye protection is not required while washing with this product.

In the workplace, the use of safety glasses is recommended to

avoid eye exposure during the handling of containers or

during spill clean-up.

Skin and body protection : No special protection is required.

Hygiene measures : When using do not eat or drink.

When using do not smoke.

Wash hands before breaks and at the end of workday.

#### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : viscous, liquid

Colour : red

Odour : like fruit

Odour Threshold : No data available

pH : 7-8

Melting point/freezing point : No data available Boiling point : No data available

Flash point : > 93.3 °C

Method: TCC

Evaporation rate : No data available



## BZ7385 ZEP CHERRY BOMB 095124 4/1G

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Upper explosion limit : No data available

Lower explosion limit : No data available

Vapour pressure : No data available

Relative vapour density : No data available

Density : 0.96 g/cm3

Solubility(ies)

Water solubility : slightly soluble Solubility in other solvents : not determined

Partition coefficient: n-

octanol/water

: No data available

Auto-ignition temperature : not determined

Thermal decomposition : No data available

Viscosity

Viscosity, kinematic : > 25 mm2/s (40 °C)

### **SECTION 10. STABILITY AND REACTIVITY**

Reactivity : Stable

Chemical stability : Stable under normal conditions.

Possibility of hazardous

reactions

: No decomposition if stored and applied as directed.

Conditions to avoid : No data available

Incompatible materials : Oxidizing agents

Hazardous decomposition

products

: Carbon oxides

## **SECTION 11. TOXICOLOGICAL INFORMATION**

#### **Potential Health Effects**

Aggravated Medical : None known.

Condition

Symptoms of Overexposure : Effects may be delayed, symptoms may include minor eye or

skin irritation.

Carcinogenicity:

IARC No component of this product present at levels greater than or



## BZ7385 ZEP CHERRY BOMB 095124 4/1G

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equal to 0.1% is identified as probable, possible or confirmed

human carcinogen by IARC.

ACGIH No component of this product present at levels greater than or

equal to 0.1% is identified as a carcinogen or potential

carcinogen by ACGIH.

OSHA No component of this product present at levels greater than or

equal to 0.1% is identified as a carcinogen or potential

carcinogen by OSHA.

NTP No component of this product present at levels greater than or

equal to 0.1% is identified as a known or anticipated carcinogen

by NTP.

Acute toxicity

**Product:** 

Acute oral toxicity : Acute toxicity estimate : > 5,000 mg/kg

Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate : > 5,000 mg/kg

Method: Calculation method

Components:

Distillates (petroleum), hydrotreated light:

Acute oral toxicity : LD50 Rat: > 5,000 mg/kg

Acute inhalation toxicity : LC50 Rat: > 4.6 mg/l

Exposure time: 6 h

Acute dermal toxicity : LD50 Rat: > 2,000 mg/kg

4-Nonylphenol branched, ethoxylated:

Acute oral toxicity : LD50 Rat: 5,000 mg/kg

Acute dermal toxicity : LD50 Rabbit: 2,573 mg/kg

Skin corrosion/irritation

Product:

Result: No skin irritation

Serious eye damage/eye irritation

Product:

Result: No eye irritation

Respiratory or skin sensitisation

No data available

Germ cell mutagenicity

No data available

Carcinogenicity



## BZ7385 ZEP CHERRY BOMB 095124 4/1G

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No data available

Reproductive toxicity

No data available

STOT - single exposure

No data available

STOT - repeated exposure

No data available

Aspiration toxicity

No data available

**Further information** 

**Product:** 

Remarks: No data available

Components:

Distillates (petroleum), hydrotreated light:

Remarks: No data available

## **SECTION 12. ECOLOGICAL INFORMATION**

**Ecotoxicity** 

No data available

Persistence and degradability

No data available

**Bioaccumulative potential** 

Product:

Partition coefficient: n-

octanol/water

: Remarks: No data available

Mobility in soil

No data available

Other adverse effects

No data available

**Product:** 

Regulation 40 CFR Protection of Environment; Part 82 Protection of

Stratospheric Ozone - CAA Section 602 Class I

Substances

Remarks This product neither contains, nor was manufactured

with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A



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+ B).

Additional ecological

information

: No data available

Components:

Distillates (petroleum), hydrotreated light:

Additional ecological

information

: No data available

#### **SECTION 13. DISPOSAL CONSIDERATIONS**

Disposal methods

Waste from residues : The product should not be allowed to enter drains, water

courses or the soil.

Do not contaminate ponds, waterways or ditches with

chemical or used container.

Dispose of in accordance with local regulations.

Contaminated packaging : Empty remaining contents.

Dispose of as unused product. Do not re-use empty containers.

#### **SECTION 14. TRANSPORT INFORMATION**

Transportation Regulation: 49 CFR (USA):

NOT REGULATED AS DANGEROUS GOODS OR HAZARDOUS MATERIAL

Transportation Regulation: IMDG (Vessel):

NOT REGULATED AS DANGEROUS GOODS OR HAZARDOUS MATERIAL

Transportation Regulation: IATA (Cargo Air):

NOT REGULATED AS DANGEROUS GOODS OR HAZARDOUS MATERIAL

Transportation Regulation: IATA (Passenger Air):

NOT REGULATED AS DANGEROUS GOODS OR HAZARDOUS MATERIAL

Transportation Regulation: TDG (Canada):

NOT REGULATED AS DANGEROUS GOODS OR HAZARDOUS MATERIAL

The product as delivered to the customer conforms to packaging requirements for shipment by road under US Department of Transportation (DOT) regulations. Additional transportation classifications noted above are for reference only, and not a certification or warranty of the suitability of the packaging for shipment under these alternative transport regulations.



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#### **SECTION 15. REGULATORY INFORMATION**

TSCA list : No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification

requirements.

EPCRA - Emergency Planning and Community Right-to-Know Act

**CERCLA Reportable Quantity** 

This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards : No SARA Hazards

SARA 302 : The following components are subject to reporting levels

established by SARA Title III, Section 302:

Pumice 1332-09-8 2.59 %

No chemicals in this material are subject to the reporting

requirements of SARA Title III, Section 302.

SARA 313 : This material does not contain any chemical components with

known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

California Prop 65 This product does not contain any chemicals known to State of

California to cause cancer, birth defects, or any other

reproductive harm.

The components of this product are reported in the following inventories:

TSCA On TSCA Inventory

DSL All components of this product are on the Canadian DSL

For information on the country notification status for other regions please contact the manufacturer's regulatory group.

**Inventory Acronym and Validity Area Legend:** 

TSCA (USA), DSL (Canada), NDSL (Canada)

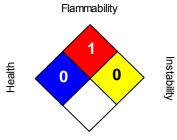
#### **SECTION 16. OTHER INFORMATION**



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#### **Further information**





Special hazard.

#### HMIS III:

HEALTH	0
FLAMMABILITY	1
PHYSICAL HAZARD	0

0 = not significant, 1 = Slight,

2 = Moderate, 3 = High 4 = Extreme, \* = Chronic

### **OSHA - GHS Label Information:**

Not a hazardous substance or mixture.

Version:	5.0
Revision Date:	08/15/2017
Print Date:	01/22/2018

We believe the statements, technical information and recommendations contained herein are reliable, but they are given without warranty or guarantee of any kind. The information in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. Users should make their own investigations to determine the suitability and applicability of the information for their particular purposes. This SDS has been prepared by the Compliance Services organization supporting this manufacturer, supplier or distributor.

Zep Inc. markets products under well recognized and established brand names such as Zep®, Zep Commercial®,Zep Professional®, Enforcer®, National Chemical™, Selig™, Misty®, Next Dimension™, Petro®, i-Chem®, TimeMist®, TimeWick™, MicrobeMax®, Country Vet®, Konk®, Original Bike Spirits®, Blue Coral®, Black Magic®, Rain-X®, Niagara National™, FC Forward Chemicals®, Rexodan®, Mykal™, and a number of private labeled brands.



January 5, 2015	June 12, 2015
	5813-100
	Household disinfecting, sanitizing, and laundry bleach
	No information available
The Clorox Company	
1221 Broadway Oakland, CA 94612	
Phone: 1-510-271-7000	
	For Medical Emergencies, call: 1-800-446-1014

For Medical Emergencies, call: 1-800-446-1014

For Transportation Emergencies, call Chemtrec: 1-800-424-9300

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

Skin corrosion/irritation	Category 1
Serious eye damage/eye irritation	Category 1

Causes severe skin burns and eye damage Causes serious eye damage



Clear, pale yellow Thin iquid Bleach

Wash face, hands and any exposed skin thoroughly after handling.

Wear protective gloves, protective clothing, face protection, and eye protection such as safety glasses.

Immediately call a poison center or doctor.

If swallowed: Rinse mouth. Do NOT induce vomiting.

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water.

Wash contaminated clothing before reuse.

If inhaled: Remove person to fresh air and keep comfortable for breathing.

Specific treatment (see supplemental first aid instructions on this label).

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Store locked up.

Dispose of contents in accordance with all applicable federal, state, and local regulations.

Although not expected, heart conditions or chronic respiratory problems such as asthma, chronic bronchitis, or obstructive lung disease may be aggravated by exposure to high concentrations of vapor or mist.

Product contains a strong oxidizer. Always flush drains before and after use.

				June 12, 2015
Not applicable.				
Very toxic to aquatic life with long lasting	effects.			
Reacts with other household chemicals su hazardous irritating gases, such as chlorin			rs, acids, or products conta	aining ammonia to produce
			<u> </u>	T 1
Sodium hypochlorite		7681-52-9	5 - 10	*
		entrol center or doctor in e doctor in attendance.	nmediately for treatment a	dvice. Show this safety
le	nses, if preser			minutes. Remove contact ye. Call a poison control
			skin immediately with pler or doctor for treatment adv	
M	ove to fresh a	ir. If breathing is affect	ed, call a doctor.	
do	o so by a poiso	on control center or doc	ole to swallow. Do not ind tor. Do not give anything ntrol center or doctor imme	

Avoid contact with skin, eyes, and clothing. Use personal protective equipment as required. Wear personal protective clothing (see section 8).

Burning of eyes and skin.

advice.

Treat symptomatically. Probable mucosal damage may contraindicate the use of gastric lavage.

Use extinguishing measures that ar	e appropriate to local circumstances and the surrounding environment.
CAUTION: Use of water spray wh	en fighting fire may be inefficient.
This product causes burns to eyes, irritating gases and vapors.	skin, and mucous membranes. Thermal decomposition can release sodium chlorate and
	None.
	None.
As in any fire, wear self-contained b gear.	reathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective
	Avoid contact with eyes, skin, and clothing. Ensure adequate ventilation. Use personal protective equipment as required. For spills of multiple products, responders should evaluate the MSDSs of the products for incompatibility with sodium hypochlorite. Breathing protection should be worn in enclosed and/or poorly-ventilated areas until hazard assessment is complete.
	Refer to protective measures listed in Sections 7 and 8.
	This product is toxic to fish, aquatic invertebrates, oysters, and shrimp. Do not allow product to enter storm drains, lakes, or streams. See Section 12 for ecological Information.
	Prevent further leakage or spillage if safe to do so.
	Absorb and containerize. Wash residual down to sanitary sewer. Contact the sanitary treatment facility in advance to assure ability to process washed-down material.

		n good industrial hygiene and saf Do not eat, drink, or smoke wher	
		Reclose cap tightly after each um direct sunlight and heat to avoiby storage of this product.	
	Toilet bowl cleaners, rust r	emovers, acids, and products con	taining ammonia.
	·		
Sodium hypochlorite 7681-52-9	None	None	None

ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit Value. OSHA PEL: Occupational Safety and Health Administration - Permissible Exposure Limits. NIOSH IDLH: Immediately Dangerous to Life or Health.

Showers Eyewash stations Ventilation systems

If splashes are likely to occur: Wear safety glasses with side shields (or goggles) or face shield.

Wear rubber or neoprene gloves and protective clothing such as long-sleeved shirt.

If irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

Handle in accordance with good industrial hygiene and safety practice. Wash hands after direct contact. Do not wear product-contaminated clothing for prolonged periods. Remove and wash contaminated clothing before re-use. Do not eat, drink, or smoke when using this product.

	Thin liquid				
	Clear		Bleach		
	Pale yellow		No information available		
	,				
	~12	None known			
	No data available	None known			
	No data available Not flammable	None known None known			
	No data available	None known			
	No data available	None known			
	No data available	None known			
	No data available	None known			
	No data available	None known			
	No data available	None known			
	~1.1 Soluble	None known None known			
	No data available	None known			
	No data available	None known			
	No data available	None known			
	No data available	None known			
	No data available	None known			
	No data available	None known			
	Not explosive No data available				
	NO data available				
	No data available				
	No data available				
	No data available				
	No data available				
Reacts with other household chemical	s such as toilet bowl cleaners, rust remove	vers. acids. or products	containing ammonia to produce		
	lorine and other chlorinated compounds.	того, оттого, от различи			
0.11	10.0				
Stable under recommended storage of	conditions.				
None under normal processing.	-				
, , , , , , , , , , , , , , , , , , ,					
None known based on information su	pplied.				
Toilet bowl cleaners, rust removers, acids, and products containing ammonia.					
Tonot bom organicio, ruot removero, aciac, ana producto containing animonia.					
None known based on information su	pplied.				

.

Exposure to vapor or mist may irritate respiratory tract and cause coughing. Inhalation of high concentrations may cause pulmonary edema.

Corrosive. May cause severe damage to eyes.

May cause severe irritation to skin. Prolonged contact may cause burns to skin.

Ingestion may cause burns to gastrointestinal tract and respiratory tract, nausea, vomiting, and diarrhea.

Sodium hypochlorite 7681-52-9	8200 mg/kg (Rat)	>10000 mg/kg (Rabbit)	-

May cause redness and tearing of the eyes. May cause burns to eyes. May cause redness or burns to skin. Inhalation may cause coughing.

No information available.

No information available.

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Sodium hypochlorite 7681-52-9	-	Group 3	-	-

## IARC (International Agency for Research on Cancer)

Group 3 - Not Classifiable as to Carcinogenicity in Humans

No information available.

No information available.

No information available.

Carcinogenic potential is unknown.

Respiratory system, eyes, skin, gastrointestinal tract (GI).

No information available.

54 g/kg	
58 mg/L	
Very toxic to aquatic life with long	asting effects.
This product is toxic to fish, aquatic	invertebrates, oysters, and shrimp. Do not allow product to enter storm drains, lakes, or streams.
No information available.	
NO IIIOITTALIOTI avallable.	
No information available.	
No information available.	
Dispose of in accordance with all a product.	pplicable federal, state, and local regulations. Do not contaminate food or feed by disposal of this
product.	
Do not reuse empty containers.	Dispose of in accordance with all applicable federal, state, and local regulations.
	Not restricted.
	Not restricted for road or rail.
<del></del>	Not restricted, as per Special Provision A197, Environmentally Hazardous Substance exception.
	Not restricted, as per Special Provision A197, Environmentally Hazardous Substance exception.
	Not restricted, as per IMDG Code 2.10.2.7, Marine Pollutant exception.

All components of this product are either on the TSCA 8(b) Inventory or otherwise exemp
from listing.

All components are on the DSL or NDSL.

- United States Toxic Substances Control Act Section 8(b) Inventory
  - Canadian Domestic Substances List/Non-Domestic Substances List

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Yes No

No No

No

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Sodium hypochlorite 7681-52-9	100 lb		X

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Sodium hypochlorite 7681-52-9	100 lb	-	RQ 100 lb final RQ RQ 45.4 kg final RQ

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

Causes irreversible eye damage and skin burns. Harmful if swallowed. Do not get in eyes, on skin, or on clothing. Wear protective eyewear and rubber gloves when handling this product. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the restroom. Avoid breathing vapors and use only in a well-ventilated area.

This product does not contain any Proposition 65 chemicals.

Sodium hypochlorite 7681-52-9	Х	Х	Х	Х	
Sodium chlorate 7775-09-9	X	Х	Х		

## E - Corrosive material



\_\_\_\_ 3 0 0 -\_\_\_ 3 0 0 B

> Product Stewardship 23 British American Blvd. Latham, NY 12110 1-800-572-6501

June 12, 2015

Revision Section 14.

1096036/164964.159



#### 1. IDENTIFICATION

Product Identifier Diesel Fuel

Synonyms: Diesel Fuel, Motor Vehicle Diesel Fuel, Dyed Diesel, \* DieselOne® , \* DieselOne® w/Platinum Plus DFX,

Low Sulfur Diesel (LSD), Ultra Low Sulfur Diesel (ULSD)

Intended use of the

product:

Fue

Contact: Global Companies LLC

Water Mill Center 800 South St.

Waltham, MA 02454-9161

www.globalp.com

Contact Information: EMERGENCY TELEPHONE NUMBER (24 hrs): CHEMTREC (800) 424-9300

COMPANY CONTACT (business hours): 800-542-0778

#### 2. HAZARD IDENTIFICATION

#### According to OSHA 29 CFR 1910.1200 HCS

#### Classification of the Substance or Mixture

Classification (GHS-US):

Flam. Liquid	Category 3	H226
Skin Corrosion/Irritation	Category 2	H315
Aspiration Hazard	Category 1	H304
STOT SE	Category 3	H336
Carcinogenicity	Category 2	H350
Aquatic Chronic	Category 2	H411
Serious Eye Damage/	Category 2B	H319

Irritation

#### **Labeling Elements**



Signal Word (GHS-US): Danger

Hazard Statements (GHS-US): H226 – Flammable liquid and vapor.

H315 - Causes Skin irritation.

H304 – May be fatal if swallowed and enters airways.

H336 – May cause drowsiness or dizziness.

H350 – May cause cancer.

H411 – Toxic to aquatic life with long lasting effects.

H319 – May cause eye damage/irritation.

Precautionary Statements (GHS-US): P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P233 - Keep container tightly closed.

P240 - Ground/bond container and receiving equipment.

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P241 – Use explosion-proof electrical/ventilating/lighting equipment pursuant to applicable electrical code.

P242 - Use only non-sparking tools.

P243 – Take precautionary measures against static discharge.

P261 – Avoid breathing dust/fume/gas/mist/vapors/spray.

P264 – Wash skin thoroughly after handling.

P271 – Use only outdoors or in a well-ventilated area.

P273 – Avoid release to the environment.

P280 - Wear protective gloves/protective clothing/eye protection/face protection.

P303+361+353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse with water/shower.

P308+311 - If exposed or concerned: Get medical advice/attention.

P301+310 - If swallowed: Immediately call a poison center/doctor/...

P331 - Do NOT induce vomiting.

P370+P378 – In case of fire use firefighting foam or other appropriate media for Class B fires to extinguish.

P403+235 - Store in a well-ventilated place. Keep cool.

P405 - Store locked up.

P501 – Dispose of contents/container in accordance with

local/regional/national/international regulation.

#### Other information:

NFPA 704 Health: 1 Fire: 2 Reactivity: 0



## 3. COMPOSITION / INFORMATION ON INGREDIENTS

### **Chemical Composition Information**

Mixture

Name	Product Identifier (CAS#)	% (w/w)	Classification
Diesel Fuel	68476-34-6	100	Flam Liq. 3, H226; Skin Irrit. 2, H315; Aspiration 1, H304; STOT SE 3, H336; Carc.2. H350; Aquatic chronic 2, H411
Naphthalene	91-20-3	<0.1	Carc. 2, H351; Acute Tox. 4, H302; Aquatic Acute 1, H400; Aquatic Chronic 1, H410

#### **Additional Formulation Information:**

Diesel Fuel consists of C9+ hydrocarbons resulting from distillation of crude oil.

Low Sulfur Diesel Fuel typically contains less than 500 ppm of sulfur

Ultra Low Sulfur Diesel Fuel typically contains less than 15 ppm of sulfur

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#### 4. FIRST AID MEASURES

Route	Measures
Inhalation	Remove person to fresh air. If person is not breathing, ensure an open airway and provide artificial respiration. If necessary, provide additional oxygen once breathing is restored if trained to do so. Seek medical attention immediately.
Ingestion	Aspiration Hazard: DO NOT INDUCE VOMITING. Do not give liquids. Obtain immediate medical attention. If spontaneous vomiting occurs, lean victim forward to reduce the risk of aspiration. Ingestion may cause gastrointestinal disturbances including irritation, nausea, vomiting, and diarrhea, and central nervous system (brain) effects similar to alcohol intoxication. In severe cases, tremors, convulsions, loss of consciousness, coma, respiratory failure, and death.
Eye Contact	In case of contact with eyes, immediately flush with clean, low-pressure water for at least 15 min. Hold eyelids open to ensure adequate flushing. Seek medical attention. In case of contact lenses, remove immediately.
Skin Contact	Remove contaminated clothing and shoes. Wash contaminated areas thoroughly with soap and water or waterless hand cleanser. Obtain medical attention if irritation or redness develops. Thermal burns require immediate medical attention depending on the severity and of the area of the body burned.

#### **Most Important Symptoms**

Contact with eyes and face may cause irritation. Long-term exposure may cause dermatitis (itching, irritation, pain and swelling).

Inhalation may cause irritation and significant or long term exposure could cause respiratory insufficiency and pulmonary edema.

Ingestion may cause aspiration, gastrointestinal disturbance, and CNS effects.

#### **Immediate Medical Attention and Special Treatment**

For contact with skin or eyes, immediately wash or flush contaminated eyes with gently flowing water. If possible, irrigate each eye continuously with 0.9% saline (NS). If ingested, rinse mouth. Do NOT induce vomiting, as this may cause chemical pneumonia (fluid in the lungs).

If inhaled, administer oxygen or establish a patent airway if breathing is labored. Suction if necessary. Monitor closely, anticipate seizures. Consider orotracheal or nostracheal intubation of airway control if patient is unconscious or is in severe respiratory distress.

Discard any clothing or shoes contaminated as they may be flammable.

#### 5. FIRE-FIGHTING MEASURES

#### **Extinguishing Media**

Foam, carbon dioxide, dry chemical are most suitable

SMALL FIRES: Any extinguisher suitable for Class B fires, dry chemical, CO2, water spray, firefighting foam, or Halon. Small fires in the incipient (beginning) stage may typically be extinguished using handheld portable fire extinguishers and other firefighting equipment.

LARGE FIRES: Foam, carbon dioxide, dry chemical. Water may be ineffective for fighting the fire, but may be used to cool fire-exposed containers.

#### **Specific Hazards / Products of Combustion**

Moderate fire hazard when exposed to heat or flame with a very low flash point. Product is flammable and easily ignited when exposed to heat, spark, open flame or other source of ignition. Flowing product may be ignited by self-generated static electricity. When mixed with air and exposed to an ignition source, flammable vapors can burn in the open or explode in confined spaces. Being heavier than air, vapors may travel long distances to an ignition source and flash back. Runoff to sewer may cause fire or explosion hazard.

Combustion may produce smoke, carbon monoxide and other products of incomplete combustion.

#### **Special Precautions and Protective Equipment for Firefighters**

Isolate area around container involved in fire. Cool tanks, shells, and containers exposed to fire and excessive heat with water.

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For massive fires the use of unmanned hose holders or monitor nozzles may be advantageous to further minimize personnel exposure. Major fires may require withdrawal, allowing the tank to burn. Large storage tank fires typically require specially trained personnel and equipment to extinguish the fire, often including the need for properly applied firefighting foam.

#### **Fighting Equipment/Instructions**

Firefighting activities that may result in potential exposure to high heat, smoke or toxic by-products of combustion should require NIOSH- approved pressure-demand self-contained breathing apparatus with full face piece and protective clothing.

Refer to Section 9 for fire properties of this chemical including flash point, auto ignition temperature, and explosive limits.

#### **6. ACCIDENTAL RELEASE MEASURES**

#### **ACTIVATE FACILITY SPCC, SPILL CONTINGENCY or EMERGENCY PLAN.**

#### **Personal Precautions**

Due to high vapor density, flammable / toxic vapors may be present in low lying areas, dikes, pits, drains, or trenches. Vapors may accumulate in low lying areas and reach ignitable concentrations. Ventilate the area. Use of non-sparking tools and intrinsically safe equipment is recommended. Potential for flammable atmosphere should be monitored using a combustible gas indicator positioned downwind of the spill area. Refer to Sections 2 and 7 for further hazard warnings and handling instructions.

Use appropriate personal protective equipment to prevent eye/skin contact and absorption. Use NIOSH approved respiratory protection, if warranted, to prevent exposures above permissible limits. Refer to Section 8. Contaminated clothing should not be near sources of ignition.

#### **Emergency Measures**

As an immediate precautionary measure, isolate spill or leak area for at least 50 meters (150 feet) in all directions. Consider wind direction. Secure all ignition sources (flame, spark, hot work, hot metal, etc.) from area. Evaluate the direction of product travel, diking sewers, etc. to confirm spill areas. Do not touch or walk-through spilled material. For large spills, isolate initial action distance downwind 1,000 ft. (300 m).

#### **Environmental Precautions**

Stop the spill to prevent environmental release if it can be done safely. Product is toxic to aquatic life. Take action to isolate environmental receptors including drains, storm sewers and natural water bodies. Keep on impervious surface if at all possible. Use water sparingly to prevent product from spreading. Foam and absorbents may be used to reduce / prevent airborne release.

Spills may infiltrate subsurface soil and groundwater; professional assistance may be necessary to determine the extent of subsurface impact.

Follow federal, state or local requirements for reporting environmental release where necessary. Refer to Section 15 for further information.

#### **Containment and Clean-Up Methods**

Carefully contain and stop the source of the spill, if safe to do so. Protect bodies of water by diking absorbents, or absorbent boom, if possible. Do not flush down sewer or drainage systems, unless system is designed and permitted to handle such material. The use of firefighting foam may be useful in certain situations to reduce vapors. The proper use of water spray may effectively disperse product vapors or the liquid itself, preventing contact with ignition sources or areas/equipment that require protection.

Take up with dry earth, sand or other non-combustible, inert oil absorbing materials. Carefully shovel, scoop or sweep up into a waste container with clean, non-sparking tools for reclamation or disposal. Response and cleanup crews must be properly trained and must utilize proper protective equipment. Refer to Section 8 for appropriate protective equipment.

#### 7. HANDLING AND STORAGE

# USE ONLY AS A FUEL. DO NOT SIPHON BY MOUTH.

#### **Handling Precautions**

Handle as a flammable liquid. Keep away from heat, sparks, and open flame. No smoking. Electrical equipment should be approved for classified area. Bond and ground containers during product transfer pursuant to NFPA 70 and API RP 2003 to

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reduce the possibility of static-initiated fire or explosion. Follow precautions to prevent static initiated fire.

Use good personal hygiene practices. Use only with protective equipment specified in Section 8. Avoid repeated and/or prolonged skin exposure. Use only outdoors or in well ventilated areas. Wash hands before eating, drinking, smoking, or using toilet facilities. Do not use as a cleaning solvent on the skin. Do not use solvents or harsh abrasive skin cleaners for washing this product from exposed skin areas. Waterless hand cleaners are effective. Promptly remove contaminated clothing and launder before reuse. Use care when laundering to prevent the formation of flammable vapors which could ignite via washer or dryer. Consider the need to discard contaminated leather shoes and gloves. Emergency eye wash capability should be available in the near proximity to operations presenting a potential splash exposure.

Special slow load procedures for "switch loading" must be followed to avoid the static ignition hazard that can exist when higher flash point material (such as fuel oil) is loaded into tanks previously containing low flash point products (such as this product) - see API RP 2003, "Protection Against Ignitions Arising Out Of Static, Lightning and Stray Currents."

#### Storage

Large quantities of diesel fuel are stored in tanks or portable containers at an ambient storage temperature. Separate from incompatible chemicals (Refer to Section 10) by distance or secondary containment. Keep away from flame, sparks, excessive temperatures and open flame. Use approved vented containers that are clearly labeled. Label all secondary containers that this material is transferred into with the chemical name and associated hazard(s). Empty product containers or vessels may contain flammable vapors. Do not pressurize, cut, heat, weld or expose such containers to sources of ignition.

Storage tanks should have a venting system. If stored in small containers, the area should be well ventilated, away from ignition sources and protected from potential damage or vehicular traffic. Post "No Smoking" signs in product storage areas. This storage area should comply with NFPA 30 "Flammable and Combustible Liquid Code" or applicable building code. The cleaning of tanks previously containing this product should follow API Recommended Practice (RP) 2013 "Cleaning Mobile Tanks in Flammable and Combustible Liquid Service" and API RP 2015 "Safe Entry and Cleaning of Petroleum Storage Tanks".

#### **Incompatibles**

Keep away from strong oxidizers, ignition sources and heat.

#### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

#### **Occupational Exposure Limits**

Component	CAS#	List	Value
Diesel Fuel	68476-34-6	ACGIH TLV-TWA	100 mg/m3*
Naphthalene	91-20-3	ACGIH TLV-TWA OSHA PEL ACGIH STEL	10 ppm 10 ppm 15 ppm

<sup>\*</sup>Critical effects; Skin; A3; CNS impairment.

#### **Engineering Controls**

Use adequate ventilation to keep vapor concentrations of this product below occupational exposure and flammability limits, particularly in confined spaces. Intrinsically safe equipment and non-sparking tools shall be used in circumstances where concentrations may exceed lower flammable limits. Grounding and bonding shall be used to prevent accumulation and discharge of static electricity. Emergency shower and eyewash should be provided in proximity to handling areas in the event of exposure to decontaminate.

#### **Personal Protective Equipment**

Exposure	Equipment
Eye / Face	Wear appropriate chemical protective glasses or goggles or face shields to prevent skin and eye contact especially caused from splashing.
Skin	Wear appropriate personal protective clothing to prevent skin contact. Gloves constructed of nitrile, neoprene or PVC are recommended when handling this material. Chemical protective clothing such as of E.I. DuPont TyChem®, Saranex® or equivalent recommended based on degree of exposure. Note: The resistance of specific material may vary from product to product as well as with degree of exposure.

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Exposure	Equipment
Respiratory	A NIOSH/MSHA-approved air-purifying respirator with organic vapor cartridges or canister may be permissible under certain circumstances where airborne concentrations are or may be expected to exceed exposure limits or for odor or irritation. Protection provided by air-purifying respirators is limited. Refer to OSHA 29 CFR 1910.134, ANSI Z88.2-1992, NIOSH Respirator Decision Logic, and the manufacturer for additional guidance on respiratory protection selection and limitations.
	Use a positive pressure, air-supplied respirator if there is a potential for uncontrolled release, exposure levels are not known, in oxygen-deficient atmospheres, or any other circumstance where an air-purifying respirator may not provide adequate protection.
Thermal	Product is stored at ambient temperature. No thermal protection is required except for emergency operations involving actual or potential for fire. Use adequate ventilation to keep vapor concentrations of this product below occupational exposure and flammability limits, particularly in confined spaces.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Property	Value	
Appearance	Clear or straw-colored liquid. May be dyed red for distribution.	
Odor	Mild characteristic petroleum distillate odor.	
Odor Threshold	<1 ppm	
рН	Not available	
Melting Point	-22 to -0.4 °F (-30 to -18 °C)	
Boiling Point Range	320 to 690 °F (160 to 366 °C)	
Flash Point	> 125.6 °F (52 °C) PMCC	
Evaporation Rate	Slow, varies with conditions	
Flammability	Flammable liquid	
Flammable Limits	0.6 % - 6.5%	
Vapor Pressure	0.009 psia @ 70 °F	
Vapor Density	>1	(air=1)
Specific Gravity	0.83-0.86 @ 60 °F (16 °C)	(water=1)
Solubility	Insoluble in water; miscible with other petroleum solvents.	
Partition Coefficient (Noctanol/water)	Log Kow range of 3.3 to >.6.0	
Autoignition Temperature	494 °F (257 °C)	
Decomposition Temperature	When heated it emits acrid smoke and irritating vapors.	
Viscosity	>3 cSt	
Percent Volatiles	100	

## **10. STABILITY AND REACTIVITY**

### Stability

This is a stable material that is flammable liquid (OSHA/GHS hazard category 3). Stable during transport.

## Reactivity

Material is not self-reacting. Flammable concentrations may be present in air. Compound can react with oxidizing materials.

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#### **Possibility of Hazardous Reactions**

Hazardous polymerization will not occur.

#### Incompatibility

Keep away from strong oxidizers such as nitric and sulfuric acids.

#### **Conditions to Avoid**

Avoid high temperatures, open flames, sparks, static electricity, welding, smoking and other ignition sources.

#### **Hazardous Decomposition Products**

Carbon monoxide, carbon dioxide and non-combusted hydrocarbons (smoke).

## 11. TOXICOLOGICAL INFORMATION

#### **Acute Toxicity:**

Acute Toxicity (Inhalation LC50)

Diesel Fuel (68476-34-6)

LC50 Inhalation Rat >6 mg/l/4h

Acute Toxicity (Dermal LD50)

Diesel Fuel (68476-34-6)

LD50 Dermal Rabbit >5000 mg/kg

Acute Toxicity (Oral LD50)

Diesel Fuel (68476-34-6)

LD50 Oral Rabbit >5000 mg/kg

Skin Corrosion/Irritation: Prolonged and repeated contact may cause skin irritation leading to dermatitis. Liquid may be absorbed through the skin in toxic amounts if large areas of skin are exposed repeatedly.

Serious Eye Damage/Irritation: Causes serious eye irritation.

Respiratory or Skin Sensitization: Not classified

Germ Cell Mutagenicity: Not classified

Teratogenicity: Not available

Carcinogenicity: OSHA: NO, IARC: Group 3, NTP: NO, ACGIH: NOIC:A3, NIOSH: NO

IARC: Group 3 – Not classifiable as to their carcinogenicity to humans

ACGIH: A3 - Confirmed animal carcinogen with unknown relevance to humans.

Studies have shown that similar products produce skin tumors in laboratory animals following repeated applications without washing or removal. The significance of this finding to human exposure has not been determined. Other studies with active skin carcinogens have shown that washing the animal's skin with soap and water between applications reduced tumor formation.

IARC classifies whole diesel fuel exhaust particulates (byproduct of combustion of this material) carcinogenic to humans (Group 1) and NIOSH regards diesel fuel exhaust particulate as a potential occupational carcinogen.

Reproductive Toxicity: Not classified

Specific Target Organ Toxicity (Repeated Exposure): Not classified

Specific Target Organ Toxicity (Single Exposure): Inhalation exposure may cause drowsiness or dizziness by inhalation exposure.

Aspiration Hazard: The major health threat of ingestion occurs from the danger of aspiration (breathing) of liquid drops into the lungs, particularly from vomiting. Aspiration may result in chemical pneumonia (fluid in the lungs), severe lung damage, respiratory failure and even death.

Potential Health Effects: Vapor irritating to skin, eyes, nose, and throat. Ingestion may cause gastrointestinal disturbances, including irritation, nausea, vomiting and diarrhea, and central nervous system (brain) effects similar to alcohol intoxication. In severe cases, tremors, convulsions, loss of consciousness, coma, respiratory arrest, and death may occur.

WARNING: The burning of any hydrocarbon as a fuel in an area without adequate ventilation may result in hazardous levels of

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combustion products, including carbon monoxide, and inadequate oxygen levels, which may cause unconsciousness, suffocation, and death.

#### 12. ECOLOGICAL INFORMATION

#### Toxicity:

This material is expected to be toxic to aquatic organisms and may cause long-term adverse effects in the aquatic environment.

Data for Component: Diesel Fuel (68476-34-6)

Material is toxic to aquatic organisms based on an acute basis (LC50/EC50 >1 but  $\leq$  10 mg/L in the most sensitive species tested).

Material is a long-term aquatic hazard based on a chronic basis (LC50/EC50 > 1 but  $\leq$  10 mg/L in the most sensitive species tested).

Persistence and Degradation: This material is not expected to be readily biodegradable.

Bioaccumulative Potential: Not available

Mobility in Soil: Not available

Other Adverse Effects: None known

Other Information: Avoid release to the environment.

## 13. DISPOSAL CONSIDERATIONS

Consult federal, state and local waste regulations to determine appropriate disposal options. May be considered a hazardous waste if disposed. Direct solid waste (landfill) or incineration at a solid waste facility is not permissible. Do not discharge to sanitary or storm sewer. Personnel handling waste containers should follow precautions provided in this document.

Shipping containers must be DOT authorized packages. Follow licensure and regulations for transport of hazardous material and hazardous waste as applicable.

## 14. TRANSPORT INFORMATION

#### **US DOT**

UN Identification Number NA 1993 / UN 1202
Proper Shipping Name Diesel Fuel

Hazard Class and Packing Group 3, PGIII

Shipping Label Combustible liquid
Placard / Bulk Package Combustible liquid, 1993

Emergency Response Guidebook Guide Number 128

#### **IATA Information**

UN Identification Number UN 1202

Proper Shipping Name Combustible-Liquid, N.O.S. (Fuel, Diesel)

Hazard Class and Packing Group 3, PGIII ICAO Label 3
Packing Instructions Cargo 310
Max Quantity Per Package Cargo 220L
Packing Instructions Passenger 309Y
Max Quantity per Package 60L

**ICAO** 

UN Identification Number UN 1202

Shipping Name / Description Combustible-Liquid, N.O.S. (Fuel,

Diesel)

Hazard Class and Packing Group 3, PG III IMDG Label 3

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#### **IMDG**

UN Identification Number UN 1202

Shipping Name / Description Combustible-Liquid, N.O.S. (Fuel, Diesel)

Hazard Class and Packing Group 3, PGIII
IMDG Label 3
EmS Number F-E-S-E
Marine Pollutant Yes

#### 15. REGULATORY INFORMATION

#### U.S. Federal, State, and Local Regulatory Information

Any spill or uncontrolled release of this product, including any substantial threat of release, may be subject to federal, state and/or local reporting requirements. This product and/or its constituents may also be subject to other federal, state, or local regulations; consult those regulations applicable to your facility/operation.

#### **OSHA Hazard Communication Standard**

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

## Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning And Community Right-to-Know Act of 1986) Sections 311 and 312

Immediate (Acute) Health HazardYesDelayed (Chronic) Health HazardYesFire HazardYesReactive HazardNoSudden Release of Pressure HazardNo

#### Clean Water Act (Oil Spills)

Any spill or release of this product to "navigable waters" (Essentially any surface water, including certain wetlands) or adjoining shorelines sufficient to cause a visible sheen or deposit of a sludge or emulsion must be reported immediately to the National Response Center (1-800-424-8802) or, if not practical, the U.S. Coast Guard with follow up to the National Response Center, as required by U.S. Federal Law. Also contact appropriate state and local regulatory agencies as required.

#### CERCLA Section 103 and SARA Section 304 (Release to the Environment)

The CERCLA definition of hazardous substances contains a "petroleum exclusion" clause which exempts this material. This product does not contain any chemicals subject to the reporting requirements of CERCLA Section 103 or SARA 304.

#### SARA Section 313- Supplier Notification

This product does not contain any chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act (EPCRA) of 1986 and of 40 CFR 372.

## **EPA Notification (Oil Spills)**

If the there is a discharge of more than 1,000-gallons of oil into or upon navigable waters of the United States, or if it is the second spill event of 42 gallons or more of oil into water within a twelve (12) month period, a written report must be submitted to the Regional Administrator of the EPA within sixty days of the event.

## Pennsylvania Right to Know Hazardous Substance list:

The following product components are cited in the Pennsylvania Special Hazardous Substance List, and are present at levels which require reporting.

Component	CAS	Amount
Diesel Fuel	68476-34-6	100%

#### New Jersey Right to Know Hazardous Substance list:

The following product components are cited in the New Jersey Right to Know Hazardous Substance List, and are present at levels which require reporting.

Component	CAS	Amount
Diesel Fuel	68476-34-6	100%

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## California Proposition 65 WARNING: This product contains chemicals known to the State of California to cause Cancer or Reproductive Toxicity.

Component	CAS	Amount
Naphthalene	91-20-3	<0.1%

#### **U.S. Toxic Substances Control Act**

All components of this product are on the TSCA Inventory or are exempt from TSCA Inventory requirements under 40 CFR 720.30.

## **CEPA - Domestic Substances List (DSL)**

All substances contained in this product are listed on the Canadian Domestic Substances List (DSL) or are not required to be listed.

#### **Canadian Regulatory Information (WHMIS)**

Class B3 – Combustible Liquid

Class D2A - Materials causing other toxic effects. (Very Toxic)

#### **16. OTHER INFORMATION**

Version

Issue Date May 20, 2016
Prior Issue Date May 3, 2015

#### **Description of Revisions**

Revised to meet Globally Harmonized System for chemical hazard communication requirements pursuant to OSHA regulatory revisions 77 FR 17884, March 26, 2012.

ml

Millilitar

#### **Abbreviations**

		IIIL	Millillei
°F	Degrees Fahrenheit (temperature)	mm²	Square millimeters
<	Less than	mmHg	Millimeters of mercury (pressure)
=	Equal to	N/A	Not applicable
>	Greater than	N/D	Not determined
AP	Approximately	ppm	Parts per million
С	Centigrade (temperature)	sec	Second
kg	Kilogram	ug	Micrograms
L	Liter		
mg	Milligrams		
	=		

#### **Acronyms**

ACGIH	American Conference of Governmental	GHS	Global Harmonized System
ACGIH			•
	Industrial Hygienists	HMIS	Hazardous Materials Information System
AIHA	American Industrial Hygiene Association	IARC	International Agency for Research On Cancer
AL	Action Level	IATA	International Air Transport Association
ANSI	American National Standards Institute	IMDG	International Maritime Dangerous Goods
API	American Petroleum Institute	Koc	Soil Organic Carbon
CAS	Chemical Abstract Service	LC50	Lethal concentration 50%
CERCLA	Comprehensive Emergency Response,	LD50	Lethal dose 50%
	Compensation, and Liability Act	MSHA	Mine Safety and Health Administration
DOT	U.S. Department of Transportation	NFPA	National Fire Protection Association
EC50	Ecological concentration 50%	NIOSH	National Institute of Occupational Safety and
EPA	U.S. Environmental Protection Agency		Health
ERPG	Emergency Response Planning Guideline	NOIC	Notice of Intended Change

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NTP	National Toxicology Program	STEL	Short Term Exposure Limit (generally 15
OPA	Oil Pollution Act of 1990		minutes)
OSHA	U.S. Occupational Safety & Health	TLV	Threshold Limit Value (ACGIH)
	Administration	TSCA	Toxic Substances Control Act
PEL	Permissible Exposure Limit (OSHA)	TWA	Time Weighted Average (8 hr.)
RCRA	Resource Conservation and Recovery Act	UN	United Nations
	Reauthorization Act of 1986 Title III	UNECE	United Nations Economic Commission for
REL	Recommended Exposure Limit (NIOSH)		Europe
RVP	Reid Vapor Pressure	WEEL	Workplace Environmental Exposure Level
SARA	Superfund Amendments and		(AIHA)
SCBA	Self Contained Breathing Apparatus	WHMIS	Canadian Workplace Hazardous Materials
SPCC	Spill Prevention, Control, and		Information System
	Countermeasures		

## **Disclaimer of Expressed and Implied Warranties**

Information presented herein has been compiled from sources considered to be dependable, and is accurate and reliable to the best of our knowledge and belief, but is not guaranteed to be so. Since conditions of use are beyond our control, we make no warranties, expressed or implied, except those that may be contained in our written contract of sale or acknowledgment.

Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Additionally, vendor assumes no responsibility for injury to vendee or third persons proximately caused by abnormal use of the material, even if reasonable safety procedures are followed. Furthermore, vendee assumes the risk in their use of the material.

\*\* End of Safety Data Sheet \*\*

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## **SAFETY DATA SHEET**

Issuing Date 25-Mar-2013 Revision Date 26-Mar-2019 Revision Number 2

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

<u>Product identifier</u> 275, 276, 277, 278

Product Name DRYLOK® Original Basement & Masonry Waterproofer

Other means of identification

Synonyms None

## Recommended use of the chemical and restrictions on use

Recommended Use Waterproofing Sealers, Concrete/Masonry

Uses advised against

No information available

## Details of the supplier of the safety data sheet

## **Supplier Address**

United Gilsonite Laboratories 1396 Jefferson Ave. Dunmore PA 18509 US Phone:570-344-1202

Findle:570-344-1202
Fax:570-969-7634
Email:sales@ugl.com
Contact Phone:570-344-1202

Emergency telephone number (800) 424-9300 Chemtrec

## 2. HAZARDS IDENTIFICATION

## Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

Acute toxicity - Oral	Category 4
Acute toxicity - Inhalation (Vapors)	Category 4
Serious eye damage/eye irritation	Category 2
Carcinogenicity	Category 1A
Reproductive toxicity	Category 2
Specific target organ toxicity (repeated exposure)	Category 2

## GHS Label elements, including precautionary statements

## **Emergency Overview**

Signal word Danger

#### Hazard statements

Harmful if swallowed
Harmful if inhaled
Causes serious eye irritation
May cause cancer

Suspected of damaging fertility or the unborn child

May cause damage to organs through prolonged or repeated exposure



Appearance Color Physical State Liquid Odor Ammonia

## **Precautionary Statements - Prevention**

Obtain special instructions before use
Do not handle until all safety precautions have been read and understood
Use personal protective equipment as required
Wash face, hands and any exposed skin thoroughly after handling
Do not eat, drink or smoke when using this product
Use only outdoors or in a well-ventilated area
Do not breathe dust/fume/gas/mist/vapors/spray

## **Precautionary Statements - Response**

IF exposed or concerned: Get medical advice/attention

\_\_\_\_

Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Ingestion

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

Rinse mouth

**Precautionary Statements - Storage** 

Store locked up

**Precautionary Statements - Disposal** 

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

Not Applicable

Other information

· Harmful to aquatic life with long lasting effects

Interactions with Other Chemicals No information available.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %	Trade Secret
Quartz	14808-60-7	15 - 40	*
Limestone	1317-65-3	15 - 40	*
Mica	12001-26-2	5 - 10	*
Diethylene glycol monomethyl ether	111-77-3	3 - 7	*
Titanium dioxide	13463-67-7	3 - 7	*

<sup>\*</sup> The exact percentage (concentration) of composition has been withheld as a trade secret

## 4. FIRST AID MEASURES

First aid measures

General Advice Show this safety data sheet to the doctor in attendance. Immediate medical attention is

required.

Eye Contact If symptoms persist, call a physician. Rinse immediately with plenty of water, also under the

eyelids, for at least 15 minutes. Remove contact lenses, if applicable, and continue flushing.

Keep eye wide open while rinsing. Do not rub affected area.

Skin Contact Wash skin with soap and water. In the case of skin irritation or allergic reactions see a

physician.

**Inhalation** Move to fresh air. If symptoms persist, call a physician. If breathing has stopped, contact

emergency medical services immediately. If not breathing, give artificial respiration. Avoid

breathing dust.

**Ingestion** Do NOT induce vomiting. Rinse mouth. Clean mouth with water and afterwards drink plenty of

water. Never give anything by mouth to an unconscious person. Get medical attention.

**Protection of First-aiders** Avoid contact with skin, eyes and clothing. Use personal protective equipment. For personal

protection see Section 8. Ensure that medical personnel are aware of the material(s) involved,

and take precautions to protect themselves. Avoid breathing vapors or mists

\_\_\_\_\_

## Most important symptoms and effects, both acute and delayed

Most Important Symptoms/Effects Burning sensation. Coughing and/ or wheezing. Difficulty in breathing.

## Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

#### Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

#### **Unsuitable Extinguishing Media**

CAUTION: Use of water spray when fighting fire may be inefficient.

## Specific Hazards Arising from the Chemical

No information available

Uniform Fire Code Irritant: Liquid

Toxic: Liquid

#### **Hazardous Combustion Products**

Carbon oxides.

**Explosion Data** 

Sensitivity to Mechanical Impact No

Sensitivity to Static Discharge No

#### **Protective Equipment and Precautions for Firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## 6. ACCIDENTAL RELEASE MEASURES

## Personal precautions, protective equipment and emergency procedures

Personal Precautions Avoid contact with skin, eyes and clothing. Use personal protective equipment. Ensure

adequate ventilation. Evacuate personnel to safe areas. Avoid breathing vapors or mists

**Other Information** Refer to protective measures listed in Sections 7 and 8.

Environmental precautions

**Environmental Precautions** Refer to protective measures listed in Sections 7 and 8.

## Methods and material for containment and cleaning up

**Methods for Containment** Prevent further leakage or spillage if safe to do so.

Methods for Cleaning Up

Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labeled

containers.

## 7. HANDLING AND STORAGE

## Precautions for safe handling

**Handling** Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin,

eyes and clothing. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing before re-use. Avoid breathing vapors or mists. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment.

## Conditions for safe storage, including any incompatibilities

Storage Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of

children. Store locked up.

**Incompatible Products**None known based on information supplied.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Control parameters

**Exposure Guidelines** 

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Quartz	TWA: 0.025 mg/m <sup>3</sup> respirable fraction	TWA: 0.1 mg/m <sup>3</sup> (vacated)	IDLH: 50 mg/m3 respirable dust
14808-60-7			TWA: 0.05 mg/m <sup>3</sup> respirable dust
Limestone	-	TWA: 15 mg/m <sup>3</sup>	TWA: 5 mg/m <sup>3</sup> respirable dust
1317-65-3		TWA: 5 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup> total dust
		(vacated) TWA: 15 mg/m <sup>3</sup>	_
		(vacated) TWA: 5 mg/m <sup>3</sup>	
Mica	TWA: 3 mg/m <sup>3</sup>	TWA: 20 mppcf (<1% crystalline silica)	IDLH: 1500 mg/m <sup>3</sup> containing <1%
12001-26-2		3 mg/m³ (vacated)	quartz
			TWA: 3 mg/m <sup>3</sup> respirable dust
Titanium dioxide	TWA: 10 mg/m <sup>3</sup>	TWA: 15 mg/m <sup>3</sup> total dust	IDLH: 5000 mg/m <sup>3</sup>
13463-67-7		(vacated) TWA: 10 mg/m <sup>3</sup> total dust	

ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit Value. OSHA PEL: Occupational Safety and Health Administration - Permissible Exposure Limits. NIOSH IDLH: Immediately Dangerous to Life or Health.

Other Exposure Guidelines Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962

(11th Cir., 1992).

**Appropriate engineering controls** 

Engineering Measures Showers

Eyewash stations Ventilation systems

## Individual protection measures, such as personal protective equipment

Eye/Face Protection If splashes are likely to occur, wear: Safety glasses with side-shields. None required for

consumer use.

**Skin and Body Protection** Wear protective gloves/clothing.

Respiratory Protection No protective equipment is needed under normal use conditions. If exposure limits are

exceeded or irritation is experienced, ventilation and evacuation may be required.

**Hygiene Measures**Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Avoid contact with skin, eyes and clothing. Wear suitable

smoke when using this product. Avoid contact with skin, eyes and clothing. Wear suitable gloves and eye/face protection. Wash hands before breaks and immediately after handling the

product.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Physical and Chemical Properties** 

Physical State Liquid

AppearanceColorOdorAmmonia

Color No information available Odor Threshold No information available

**Property** Remarks/ Method pН 9.5 None known Melting/freezing point None known No data available **Boiling Point/Range** None known 100 °C / 212 °F Flash Point 5001C / 9034F None known **Evaporation rate** No data available None known Flammability (solid, gas) No data available None known

Flammability Limits in Air

Upper flammability limitNo data availableLower flammability limitNo data available

Vapor pressure No data available None known Vapor density No data available None known **Specific Gravity** No data available None known **Water Solubility** Soluble in water. None known Solubility in other solvents No data available None known Partition coefficient: n-octanol/water No data available None known **Autoignition temperature** No data available None known **Decomposition temperature** No data available None known Kinematic viscosity No data available None known **Dvnamic viscosity** No data available None known **Explosive Properties** No data available **Oxidizing Properties** No data available

Other Information

Softening Point No data available VOC Content (%) No data available

## 10. STABILITY AND REACTIVITY

## Reactivity

No data available.

## **Chemical stability**

Stable under recommended storage conditions.

#### Possibility of Hazardous Reactions

None under normal processing.

## **Hazardous Polymerization**

Hazardous polymerization does not occur.

## Conditions to avoid

Excessive heat.

#### **Incompatible materials**

None known based on information supplied.

## **Hazardous Decomposition Products**

Carbon oxides.

## 11. TOXICOLOGICAL INFORMATION

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## 11. TOXICOLOGICAL INFORMATION

## Information on likely routes of exposure

**Product Information** 

**Inhalation** There is no data available for this product. May cause irritation of respiratory tract. Harmful by

inhalation. (based on components)

**Eye Contact**There is no data available for this product. Expected to be an irritant based on components.

May cause redness, itching, and pain. May cause temporary eye irritation.

Skin Contact There is no data available for this product. May cause irritation. Prolonged contact may cause

redness and irritation.

**Ingestion** There is no data available for this product. Ingestion may cause irritation to mucous

membranes. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Harmful if swallowed. (based on components). May be harmful if swallowed.

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Quartz	= 500 mg/kg (Rat)	-	-
14808-60-7			
Titanium dioxide	> 10000 mg/kg (Rat)	-	-
13463-67-7			

#### Information on toxicological effects

**Symptoms** May cause redness and tearing of the eyes. Coughing and/ or wheezing.

## Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization No information available.

Mutagenic Effects No information available.

**Carcinogenicity** The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical Name	ACGIH	IARC	NTP	OSHA
Quartz	A2	Group 1	Known	X
14808-60-7		-		
Titanium dioxide 13463-67-7		Group 2B		X

ACGIH: (American Conference of Governmental Industrial Hygienists)

A2 - Suspected Human Carcinogen

IARC: (International Agency for Research on Cancer)

Group 1 - Carcinogenic to Humans

Group 2B - Possibly Carcinogenic to Humans

Group 3 - Not Classifiable as to Carcinogenicity in Humans

NTP: (National Toxicity Program) Known - Known Carcinogen

OSHA: (Occupational Safety & Health Administration)

X - Present

Reproductive Toxicity STOT - single exposure STOT - repeated exposure Contains a known or suspected reproductive toxin.

No information available.

Causes damage to organs through prolonged or repeated exposure. Based on classification criteria from the 2012 OSHA Hazard Communication Standard (29 CFR 1910.122), this product has been determined to cause systemic target organ toxicity from chronic or repeated exposure. (STOT RE). If this product is a mixture, the classification is not based on toxicology studies for this product, but is based solely on toxicology studies for ingredients found within this product. More detailed substance and/or ingredient information may be provided in the

other sections of this SDS

**Chronic Toxicity** No known effect based on information supplied. Contains a known or suspected carcinogen

> Contains a known or suspected reproductive toxin.. Possible risks of irreversible effects. Avoid repeated exposure. Prolonged exposure may cause chronic effects. Titanium dioxide has been classified by the International Agency for Research on Cancer (IARC) as possibly carcinogenic

to humans (Group 2B) by inhalation. May cause adverse liver effects.

**Target Organ Effects** Eyes. Respiratory system. Skin. Gastrointestinal tract (GI). Reproductive system. Lungs.

Kidney. Liver.

**Aspiration Hazard** No information available.

#### Numerical measures of toxicity Product Information

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral) 170.00 mg/kg

ATEmix (inhalation-vapor)

10.90ATEmix

## 12. ECOLOGICAL INFORMATION

#### Ecotoxicity

Harmful to aquatic life with long lasting effects.

#### Persistence and Degradability

No information available.

#### **Bioaccumulation**

No information available.

#### **Other Adverse Effects**

No information available.

## 13. DISPOSAL CONSIDERATIONS

#### Waste treatment methods

**Waste Disposal Methods** This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR

261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local

regulations for additional requirements.

**Contaminated Packaging** Dispose of in accordance with local regulations.

California Hazardous Waste Codes 331

## 14. TRANSPORT INFORMATION

DOT NOT REGULATED NON REGULATED **Proper Shipping Name** 

**Hazard Class** 

TDG Not regulated

## 14. TRANSPORT INFORMATION

MEX Not regulated

ICAO Not regulated

IATA Not regulated

Proper Shipping Name NON REGULATED

Hazard Class N/A

IMDG/IMO Not regulated

Hazard Class N/A

RID Not regulated

ADR Not regulated

ADN Not regulated

## 15. REGULATORY INFORMATION

#### International Inventories

TSCA Complies

DSL All components are listed either on the DSL or NDSL.

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

## U.S. Federal Regulations

## **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

Chemical Name	CAS-No	Weight %	SARA 313 - Threshold Values %
Diethylene glycol monomethyl ether - 111-77-3	111-77-3	3 - 7	1.0

## SARA 311/312 Hazard Categories

Acute Health Hazard	Yes
Chronic Health Hazard	Yes
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

#### Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

## **CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

## U.S. State Regulations

## California Proposition 65

This product contains the following Proposition 65 chemicals:

Chemical Name	California Prop. 65
Titanium dioxide - 13463-67-7	X
Quartz - 14808-60-7	Carcinogen

## U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Mica 12001-26-2	X	X	Х
Limestone 1317-65-3	X	X	Х
Titanium dioxide 13463-67-7	X	X	Х
Quartz 14808-60-7	Χ	X	Х

## International Regulations

Mexico - Grade Slight risk, Grade 1

Chemical Name	Carcinogen Status	Exposure Limits
Quartz		Mexico: TWA= 0.1 mg/m <sup>3</sup>
Limestone		Mexico: TWA= 10 mg/m <sup>3</sup>
		Mexico: STEL= 20 mg/m <sup>3</sup>
Mica		Mexico: TWA= 3 mg/m <sup>3</sup>
Titanium dioxide		Mexico: TWA= 10 mg/m <sup>3</sup>
		Mexico: STEL= 20 mg/m <sup>3</sup>

## Canada WHMIS Hazard Class D2A Very toxic materials



## **16. OTHER INFORMATION**

NFPA Health Hazard 3 Flammability 0 Instability 0 Physical and Chemical

Hazards -

HMIS Health Hazard 3 \* Flammability 0 Physical Hazard 0 Personal Protection X

Chronic Hazard Star Legend \*Indicates a chronic health hazard.

Prepared By Product Stewardship

23 British American Blvd. Latham, NY 12110 1-800-572-6501

**Issuing Date** 25-Mar-2013

Revision Date 08-Oct-2013

Revision Note No information available

## **General Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

Revision Date 26-Mar-	200	$^{\circ}$
Bevision Date 20-10131-	./()	м

SDS Date: February, 2016

Řev. #1

## **Safety Data Sheet**

## Per GHS Standard Format

## SECTION 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

## **Product Identifier**

Product Name: Fiberset PM No. 7470 White, No. 7475 Clear & No. 7480 Blue

Recommended Use of Product: Post-Removal Surface Sealant

## Information on the Supplier of the Safety Data Sheet

Manufactured For: Fiberlock Technologies 150 Dascomb Road Andover, MA 01810

P: 978-623-9980 F: 978-475-6205

Emergency Telephone Numbers: CHEM TEL: (U.S.): 1-800-255-3924 (Outside the U.S.): 813-248-0585

## SECTION 2: HAZARDS IDENTIFICATION

Signal Word: WARNING





## **GHS Label Statements**

Hazard Statements:
Harmful if inhaled.
Causes serious eye irritation.
May cause an allergic skin reaction.
May cause cancer.

## **GHS Classifications**

This product is considered hazardous by The 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute Toxicity-Inhalation (Vapors) Category 4
Acute Toxicity-Inhalation (Dust-mists) Category 2
Serious eye damage/eye irritation – Category 2
Skin sensitization – Category 1

## PRECAUTIONARY STATEMENTS

**Prevention**: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protection (eye protection, gloves) during application. When grinding/sanding dry films, wear respiratory protection.

**Response:** If on skin, wash with plenty of soap and water. If in eyes, rinse cautiously for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. If inhaled, remove victim to fresh air. If exposed or concerned, get medical advice.

**Storage:** Keep closures tight and containers upright to prevent leakage. KEEP FROM FREEZING. 
∠roduct is non-combustible.

**Disposal:** The coating and any contaminated diking material should be thoroughly air dried and collected into drums. The drums should be sealed and labeled and land-filled or incinerated according to local, regional and national regulations.

## Hazards Not Otherwise Classified (NHOC): Not applicable

**Other Information:** Toxic to aquatic life with long lasting effects. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons.

## SECTION 3: COMPOSITION INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Weight, %**
*Titanium dioxide	13463-67-7	10-30
Propylene glycol	57-55-6	3-7
Chlorothalonil	1897-45-6	0.1-1
Polyethylene glycol branched nonylphenyl either	68412-54-4	0.1-1
***Pathalocyanine blue	Proprietary	<.50

<sup>\*</sup>Not in PM Cleartone Base #7475 or in Blue #7480

## SECTION 4: FIRST AID MEASURES

## **General Advice**

Show this safety data sheet to the doctor in attendance. Immediate medical attention is required.

## Eve Contact

If symptoms persist, call a physician. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. Do not rub affected area.

#### Skin Contact

Wash skin with soap and water. In the case of skin irritation or allergic reactions see a physician. May cause an allergic skin reaction.

## Inhalation

Remove to fresh air. If symptoms persist, call a physician. If breathing has stopped, give artificial respiration. Get medical attention immediately. If not breathing, give artificial respiration. Do not breathe dust.

## Ingestion

Do NOT induce vomiting. Rinse mouth immediately and drink plenty of water. Never give anything by outh to an unconscious person. Get medical attention.

<sup>\*\*</sup>The exact concentration of composition has been withheld as a trade secret.

<sup>\*\*\*</sup> Only in 7480 Blue

## Self-Protection of the First Aider

Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. Wear personal protective clothing (see section 8). Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Avoid breathing vapors or mists.

## Most important symptoms and effects, both acute and delayed

## **Most Important Symptoms and Effects**

Burning sensation. Coughing and/or wheezing. Difficulty in breathing. Itching. Rashes. Hives.

## Indication of any immediate medical attention and special treatment needed

## Notes to Physician

Treat symptomatically. May cause sensitization of susceptible persons.

## SECTION 5: FIRE-FIGHTING MEASURES

Suitable Extinguishing Media: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media: CAUTION: Use of water spray when fighting fire may be inefficient.

**Specific Hazards Arising from the Chemical:** Product is/or contains a sensitizer. May cause sensitization by skin contact.

## **Uniform Fire Code**

Sensitizer: Liquid Toxic: Liquid

Hazardous Combustion Products: Carbon oxides

## **Explosion Data**

Sensitivity to mechanical impact No. Sensitivity to static impact No.

Protective Equipment and Precautions for Firefighters: As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

## Personal Precautions, Protective Equipment and Emergency Procedures

**Personal Precautions:** Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. Ensure adequate ventilation. Avoid breathing vapors or mists. Avoid generation of dust.

Other Information: Refer to protective measures listed in Sections 7 & 8.

## **Environmental Precautions**

Environmental Precautions: Refer to protective measures listed in Sections 7 & 8.

## Methods and Material for Containment and Cleaning Up

Methods for Containment: Prevent further leakage or spillage if safe to do so

**Methods for Cleaning Up:** Immediately place absorbent material in a sealed water-filled metal container to avoid spontaneous combustion of absorbent material contaminated with this product. Pick up and transfer to properly labeled containers.

## SECTION 7: HANDLING AND STORAGE

## Precautions for Safe Handling

**Handling:** Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Avoid breathing vapors or mists. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Take off contaminated clothing and wash before reuse. Keep away from contact with clothing and other combustible materials to avoid fire.

## Conditions for Safe Storage, Including any Incompatibilities

**Storage:** Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children.

Incompatible Products: None known based on information supplied

## ECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

## **Exposure Guidelines**

Chemical Name

**ACGIH TLV** 

OSHA PEL

NIOSH IDLH

Titanium dioxide

TWA: 10 mg/m3

TWA: 15 mg/m³ total dust

IDLH: 5000 mg/m3

13463-67-7

(vacated) TWA: 10 mg/m3 total dust

ACGIH TLV: American Conference of Governmental Industrial Hygienists – Threshold Limit Value OSHA PEL: Occupational Safety and Health Administration – Permissible Exposure Limits NIOSH IDLH Immediately Dangerous to Life or Health

**Other Exposure Guidelines:** Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992). See section 15 for national exposure control parameters

## **Appropriate Engineering Controls**

Engineering Measures: Showers / Eyewash Stations / Ventilation Systems

## Individual Protection Measures, such as Personal Protective Equipment

Eye/Face Protection: If splashes are likely to occur, wear safety glasses with side shields (or goggles). None required for consumer use.

kin and body Protection: Wear protective gloves and protective clothing

Respiratory Protection: No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

**Hygiene Measures:** Handle in accordance with good industrial hygiene and safety practice. Take off contaminated clothing and wash before reuse. Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Wash hands before breaks and immediately after handling the product.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical State:

Viscous liquid

Odor:

Very Slight

Appearance:

White

**Odor Threshold:** 

No information available

Color:

No information available

Property	Values	Remarks/Method
Property pH	8.5	None known
Melting/freezing point	No data available	None known
Boiling point/boiling range	No data available	None known
Flash Point	No data available	None known
Evaporation rate	No data available	None known
Flammability (solid, gas)	No data available	None known
Flammability Limit in Air	To data available	110/10 11/1011/1
Upper flammability limit	No data available	None known
Lower flammability limit	No data available	None known
Vapor pressure	No data available	None known
Vapor density	No data available	None known
Specific Gravity	No data available	None known
Water Solubility	Miscible in water	None known
Solubility in other solvents	No data available	None known
Partition coefficient: n-octanol/water		None known
Autoignition temperature	No data available	None known
Decomposition temperature	No data available	None known
Kinematic viscosity	No data available	None known
Dynamic viscosity	No data available	None known
Explosive properties	No data available	
Oxidizing properties	No data available	
<b>.</b>		
Other Information		
Softening Point	No data available	
VOC Content (%)	No data available	
Particle size	No data available	

No data available

## SECTION 10: STABILITY AND REACTIVITY

## Reactivity

No data available

## **Conditions to Avoid**

Particle size distribution

Excessive heat

## **Chemical Stability**

Stable under recommended storage conditions

## 'ncompatible Materials

None known based on information supplied

## Possibility of Hazardous Reactions

None under normal processing

## **Hazardous Decomposition Products**

Carbon oxides

## **Hazardous Polymerization**

Hazardous polymerization does not occur

## SECTION 11 TOXICOLOGICAL INFORMATION

## Information on Likely Routes of Exposure

**Product Information:** Product does not present an acute toxicity hazard based on known or supplied information.

**Inhalation:** Specific test data for the substance or mixture is not available. May cause irritation of respiratory tract, Harmful by inhalation (based on components).

'ye Contact: Specific test data for the substance or mixture is not available. Expected to be an irritant pased on components. May cause redness, itching, and pain. May cause temporary eye irritation.

**Skin Contact:** Specific test data for the substance or mixture is not available. May cause irritation. Prolonged contact may cause redness and irritation.

**Ingestion:** Specific test data for the substance or mixture is not available. Ingestion may cause irritation to mucous membranes. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

## Component Information

Chemical Name Titanium dioxide 13463-67-7	<b>Oral LD50</b> > 10000 mg/kg (Rat)	Dermal LD50	Inhalation LC50
Propylene Glycol 57-55-6	= 20000 mg/kg (Rat)	= 20800 mg/kg (Rabbit)	
Chlorothalonil 1897-45-6		> 10 g/kg (Rabbit)	= 310 mg/m3 (Rat) 1 h
Polyethylene glycol branched Nonylphenyl either 68412-54-4		= 1780 μL/kg (Rabbit)	·

## Information on Toxicological Effects

ymptoms: May cause redness and tearing of the eyes, coughing and/or wheezing, itching, rashes and hives.

## Delayed and Immediate Effects as well as Chronic Effects from Short and Long-Term Exposure

Sensitization: May cause sensitization of susceptible persons. May cause sensitization by skin

contact.

Mutagenic Effects: No information available

Carcinogenicity: The table below indicates whether each agency has listed any ingredient as a carcinogen

Chemical NameACGIHIARCNTPOSHATitanium dioxideGroup 2BX13463-67-7Group 2BXChlorothalonilGroup 2BX1897-45-6

ACGIH (American Conference of Governmental Industrial Hygienists)

A2 - Suspected Human Carcinogen

IARC (International Agency for Research on Cancer)

Group 2B - Possibly Carcinogenic to Humans

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

X-Present

Reproductive Toxicity, STOT Single Exposure, STOT Repeated Exposure: No information available

**Chronic Toxicity:** Titanium dioxide has been classified by the International Agency for Research on Cancer (IARC) as possibly carcinogenic to humans (Group 2B) by inhalation. Contains a known or suspected carcinogen.

Target Organ Effects: Eyes, respiratory system, skin, gastrointestinal tract (GI) & lungs.

Aspiration Hazard: No information available

## Numerical Measures of Toxicity Product Information

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral)

ATEmix (inhalation-dust/mist)

8,711.00 mg/kg

2.41 mg/l

ATEmix (dermal)

ATEmix (inhalation-vapor)

21,608.00 mg/kg (ATE)

16.00 ATEmix

ATEmix (inhalation-gas)

3.118.00 ppm (4hr)

## SECTION 12: ECOLOGICAL INFORMATION

## **Ecotoxicity**

Toxic to aquatic life with long lasting effects

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Propylene Glycol 57-55-6	96h EC50: = mg/L (Pseudokirchneriella Subcapitata)	96h LC50: = 51600 mg/L (Oncorhynchus mykiss) 96h LC50: 41-47 mL/L (Oncorhynchus mykiss) 96h LC50: 51400 mg/L (Pimephales promelas) 96h LC50: = 710 mg/L (Pimephales promelas)		24h EC50: > 10000 mg/L 48h EC50: > 1000 mg/L
Chlorothałonii 1897-45-6	72h EC50: = 0.57 mg/l, (Desmodesmus Subspicatus) 72h EC50: = 0.0068 mg/l, (Pseudokirchneriella Subcapitata)	96h LC50: = 0.012 mg/L (Oncorhynchus mykiss) 96h LC50: 0.0076 mg/L (Oncorhynchus mykiss) 96h LC50: 0.0221-0.032 mg/L (Lepomis macrochirus) 96h LC50: 0.045-0.057 mg/L (Lepomis macrochirus)		48h EC50: 0.0342-0.143 mg/L

Persistence and Degradability: No information available

## Bioaccumulation

Chemical Name

Log Pow

Chlorothalonil

2.9

1897-45-6

Methylchloroisothiazolinone

-0.71 - 0.75

26172-55-4

Other Adverse Effects: No information available

## ECTION 13: DISPOSAL CONSIDERATIONS

## **Waste Treatment Methods**

**Disposal Methods:** This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.

Contaminated Packaging: Dispose of contents/containers in accordance with local regulations

California Hazardous Waste Codes: 331

## SECTION 14: TRANSPORT INFORMATION

DOT

Not Regulated

Proper Shipping Name

Non-Regulated

Hazard Class

N/A

TDG

o data available

## **IATA**

No data available

## IMDG/IMO

No data available

## SECTION 15: REGULATORY INFORMATION

## International Inventories

TSCA

Complies

DSL

All components are listed either on the DSL or NDSL

TSCA – United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL – Canadian Domestic Substances List/Non-Domestic Substances List

## **US Federal Regulations**

## **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

Chemical Name

CAS No.

Weight - %

SARA 313 - Threshold Values %

Chlorothalonil

1897-45-6

 $0.1 - \tilde{1}$ 

0.1

SARA 311/312 Hazard Categories

Acute Health Hazard

Yes

Chronic Health Hazard

Yes

Fire Hazard

No

Sudden release of pressure hazard

No

Reactive Hazard

No

## CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

## **CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

## **US State Regulations**

## California Proposition 65

This product contains the following Proposition 65 chemicals:

#### Chemical Name

Titanium dioxide — 13463-67-7 Chlorothalonil — 1897-45-6

## California Proposition 65

Carcinogen Carcinogen

## J.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts i	Pennsylvania	Rhode Island	Illinois
Titanium dioxide – 13463-67-4	X	Х	X		
Propylene Glycol – 57-55-6	Χ		X		
Chlorothalonil – 1897-45-6	X	Х	X	Х	

## International Regulations

Canada
WHMIS Hazard Class
D2A -- Very toxic materials
D2B -- Toxic materials



## SECTION 16: OTHER INFORMATION

NFPA

Health Hazards 2

Flammability 0

Instability 0

Special Hazard

**HMIS** 

Health Hazards 2\*

Flammability 0

Physical Hazard 0

Personal Protection X

hromic Hazard Star Legend \* = Chronic Health Hazard

WARNING! If you scrape, sand or remove old paint, you may release lead dust. LEAD IS TOXIC. EXPOSURE TO LEAD DUST CAN CAUSE SERIOUS ILLNESS, SUCH AS BRAIN DAMAGE, ESPECIALLY IN CHILDREN. PREGNANT WOMEN SHOULD ALSO AVOID EXPOSURE. Wear NIOSH-approved respirator to control lead exposure. Clean up carefully with a HEPA vacuum and wet mop. Before you start, find out how to protect yourself and your family by contacting the National Lead Information Hotline at 1-800-424-LEAD (5323) or log on to: <a href="https://www.epa.gov/lead">www.epa.gov/lead</a>



FOSTER 32-61 802291PM

## **SAFETY DATA SHEET**

REVISION DATE: 01-10-2020 SUPERSEDES: 10-01-2014

## SECTION 1: IDENTIFICATION OF THE PRODUCT AND SUPPLIER

#### PRODUCT INFORMATION

PRODUCT: FOSTER 32-61
PRODUCT DESCRIPTION: Lockdown
INTENDED USE: Adhesive
PRODUCT IDENTIFIER: 802291PM

## **COMPANY INFORMATION**

H.B. Fuller Construction Products Inc. 1105 S. Frontenac Street Aurora, IL 60504

Phone: 1-800-552-6225

Medical Emergency Phone Number (24 Hours): 1-888-853-1758 Transport Emergency Phone Number (CHEMTREC): 1-800-424-9300

## **SECTION 2: HAZARDS IDENTIFICATION**

**GHS Classification:** This product is not classified as hazardous under GHS criteria.

**GHS Precautions:** 

**Safety Precautions:** No special precautionary measures are required. Please read the entire Safety Data

Sheet for other information regarding handling of this product.

First Aid Measures: IF SWALLOWED: Do not induce vomiting. Seek medical attention if symptoms

develop. IF IN EYES: Use an eye wash to remove chemical from the eye. IF ON SKIN: Wash with soap and water. IF INHALED: Remove individual to fresh air after

an airborne exposure if any symptoms develop.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS #	PERCENT	Classification	Note

Unlisted ingredients are not 'hazardous' per the Occupational Safety and Health Administration Hazard Communication Standard (29 CFR 1910.1200) and/or are not found on the Canadian Workplace Hazardous Materials Information System ingredient disclosure list. See Section 8 for exposure limit guidelines.

## **SECTION 4: FIRST AID MEASURES**

IFIN EYES: None expected to be needed, however, use an eye wash to remove a chemical from your eye regardless of the level of hazard.

IFON SKIN: Wash with soap and water.

IF INHALED: Remove individual to fresh air after an airborne exposure if any symptoms develop, as a precautionary measure.

IF SWALLOWED: Do not induce vomiting. Seek medical attention if symptoms develop. Provide medical care provider with this MSDS. Induced vomiting may lead to a spiration of the material into the lungs potentially causing chemical pneumonitis that may be fatal.



FOSTER 32-61 802291PM

#### **SAFETY DATA SHEET**

## **SECTION 5: FIRE FIGHTING MEASURES**

EXTINGUISHING MEDIA: Use water spray, foam, dry chemical or carbon dioxide.

UNUSUAL FIRE AND EXPLOSION HAZARDS: There is a possibility of pressure buildup in closed containers

when heated. Water spray may be used to cool the containers. SPECIAL FIRE FIGHTING INSTRUCTIONS:

Persons exposed to products of combustion should wear self-

Persons exposed to products of combustion should wear self-contained breathing apparatus and full protective equipment.

contained breatning apparatus and full protective equipr

HAZARDOUS COMBUSTION PRODUCTS: Carbon dioxide, Carbon monoxide

## SECTION 6: ACCIDENTAL RELEASE MEASURES

SPECIAL PROTECTION: No adverse health effects expected from the clean-up of spilled material.

Follow personal protective equipment recommendations found in

Section 8 of this SDS.

METHODS FOR CLEAN-UP: Dike if necessary, contain spill with inert absorbent and transfer to

containers for disposal. Keep spilled product out of sewers, watersheds,

or water systems.

Transport Emergency Phone Number (CHEMTREC): 1-800-424-9300

## **SECTION 7: HANDLING AND STORAGE**

Handling: No special handling instructions due to toxicity.

This product contains an ingredient that may release formald hyde when in

contact with strong acids.

Storage: Store in a cool, dry place. Protect from freezing. Consult the Technical Data Sheet for specific storage instructions.

## SECTION 8: E POSURE CONTROLS/PERSONAL PROTECTION

## **E POSURE LIMITS:**

Chemical Name	Note	ACGIHE POSURE LIMITS	OSHA PEL	
No data available.				
	1			

## **ENGINEERING CONTROL METHODS:**

VENTILATION: General room ventilation might be required under normal conditions

of use.

EYE PROTECTION: Wear safety glasses when handling this product.

SKIN PROTECTION: Not normally considered a skin hazard. Where use can result in skin

contact, practice good personal hy giene. Wash hands and other exposed areas with mild soap and water before eating, drinking, and

when leaving work.

GLOVES: Not normally required. Use nitrile gloves if conditions warrant.

RESPIRATORY PROTECTION: No respiratory protection required under normal conditions of use.

Respirators should be selected by and used following requirements

found in OSHA's respirator standard (29 CFR 1910.134).



FOSTER 32-61 802291PM

#### **SAFETY DATA SHEET**

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE:

COLOR:
White

ODOR:
Mild Sweet

ODOR THRESHOLD:
PH:
Not established
PREEZING/MELTING POINT (deg. C):
Not established

BOILING POINT (deg. C):
Not established

BOILING POINT (deg. C):

FLASH POINT:

Not established

Not established

Not established

FLAMMABILITY: Not a flammable solid or gas

UPPER EXPLOSIVE LIMIT (% in air):

LOWER EXPLOSIVE LIMIT (% in air):

VAPOR PRESSURE (mm Hg):

Not established

VAPOR DENSITY:

Not established

WEIGHT PER GALLON (lbs.): 8.40 SPECIFIC GRAVITY: 1.010

SOLUBILITY:
OCTANOL/WATER COEFFICIENT:
Not established
AUTOIGNITION TEMPERATURE:
Not established
DECOMPOSITION TEMPERATURE:
VISCOSITY:
No data available.

SOLIDS (% by weight): 7.4 VOC, weight percent 0.96

VOC, U.S. EPA Method 24, less water and exempt 10g/liter of material

solvents (theoretically determined)

## **SECTION 10: STABILITY AND REACTIVITY**

STABILITY: Stable under normal conditions.

CHEMICALINCOMPATIBILITY: Not established HAZARDOUS POLYMERIZATION: Will not occur.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide, carbon dioxide

## SECTION 11: TO ICOLOGICAL INFORMATION

**Component Toxicity / Toxicology Data:** 

COMPONENT NAME	LD50/LC50
No data available.	

## This product is a mixture. Unless noted, the information below is based on components.

Skin corrosion / irritation: No irritation hazard in normal industrial use.

Serious eye damage / irritation : No irritation hazard in normal industrial use.

Respiratory / skin sensitization: No data a vailable.

Germ cell mutagenicity: No data a vailable.

Carcinogenicity: No data available.

Reproductive toxicity: No data available.

Specific target organ toxicity-single exposure: No data available.



FOSTER 32-61 802291PM

#### **SAFETY DATA SHEET**

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Respiratory irritation / Narcotic effects: No data available.

Specific target organ toxicity-repeated exposure: No data a vailable.

Target organs potentially affected by exposure: No organs known to be damaged from exposure to this product.

Aspiration hazard: Not an aspiration hazard.

Medical Conditions Aggravated by Exposure: No medical conditions affected by exposure.

## **SECTION 12: ECOLOGICAL INFORMATION**

OVERVIEW: No ecological information a vailable for this product.

MOBILITY: No data a vailable. PERSISTENCE: No data a vailable. BIOACCUMULATION: No data a vailable.

## This product has not been tested for ecological effects. Relevant information for components is listed below:

Component:	Ecotoxicity values:
No data available.	Acute Toxicity (Fish):
	Acute Toxicity (Daphnia):
	Acute Toxicity (Algae):

## **SECTION 13: DISPOSAL CONSIDERATIONS**

To the best of our knowledge, this product does not meet the definition of hazardous waste under the U.S. EPA Hazardous Waste Regulations 40 CFR 261. Solidify and dispose of in an approved landfill. Consult state, local or provincial authorities for more restrictive requirements.

## **SECTION 14: TRANSPORT INFORMATION**

Consult Bill of Lading for transportation information.

US DOT: NOT REGULATED IATA: NOT REGULATED

## **SECTION 15: REGULATORY INFORMATION**

#### **INVENTORY STATUS**

U.S. EPA TSCA: This product is in compliance with the Toxic Substances Control Act's

Inventory requirements.

CANADIAN CEPA DSL: The components of this product are included on the DSL or are exempt

from DSL requirements.

EUROPEAN REACH: As a result of the introduction of REACH into Europe, this product

cannot be imported into Europe unless the REACH requirements are

met.

AUSTRALIA AICS: This product is in compliance with the Australian Inventory of

Chemical Substances requirements.

JAPAN ENCS: This product is in compliance with the Japanese Existing and New

Chemical Substances requirements.

CHINA IECSCINVENTORY: This product is in compliance with the Inventory of Existing Chemical

Substances in China (IECSC) requirements.

If you need more information about the inventory status of this product call 651-236-5858.

This product may contain chemical substances that are regulated for export by various government a gencies (such as the Environmental Protection Agency, the Bureau of Industry and Security, or the Drug Enforcement



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## **SAFETY DATA SHEET**

Administration, among others). Before exporting this product from the USA or Canada, we recommend you contact us at reg.request@hbfuller.com to request an export review.

This product contains a chemical substance that is subject to a Significant New Use Rule (SNUR) under Section 5(a)(2) of TSCA:

.alpha.-(Nonylphenyl)-.omega.-hydroxypoly(oxy-1.2-ethanediyl)

79 FR 59186, Oct 1, 2014 (proposed rule, listed under .alpha.-(Nonylphenyl)-.omega.-hydroxypoly(oxy-1,2-ethanediyl))

#### FEDERAL REPORTING

#### EPA SARA Title III Section 313

Unless listed below, this product does not contain toxic chemical(s) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA) and 40 CFR part 372. EPA has a dvised that when a percentage range is listed the midpoint may be used to fulfill reporting obligations.

Chemical Name	CAS#	%

## STATE REPORTING

Proposition 65, The Safe Drinking Water and Toxic Enforcement Act of 1986:

Unless listed below, this product does not contain known levels of any chemical known to the State of California to cause cancer or reproductive harm.

Chemical Name/List		CAS	Percent
Methyl isobutyl ketone	(Carcinogen)	108-10-1	0.1 - 1
1,3-Butadiene	(Carcinogen)	106-99-0	0.1 - 1
Styrene	(Carcinogen)	100-42-5	0.1 - 1
Methanol	(Developmental toxin)	67-56-1	0.1 - 1
Ethylene glycol	(Developmental toxin)	107-21-1	0.1 - 1
Methyl isobutyl ketone	(Developmental toxin)	108-10-1	0.1 - 1
1,3-Butadiene	(Developmental toxin)	106-99-0	0.1 - 1
1,3-Butadiene	(Female reproductive toxin)	106-99-0	0.1 - 1
1,3-Butadiene	(Male reproductive toxin)	106-99-0	0.1 - 1

## **Substances of Very High Concern (SVHC) Content:**

Unless listed below, this product does not contain SVHC's at 0.1% or greater, as of the version date of this SDS. 4-Nonylphenol, branched, ethoxylated

## **SECTION 16: OTHER INFORMATION**

SDS VERSION DATE: 01-10-2020

This Safety Data Sheet is prepared to comply with the United States Occupational Safety and Health Administration (OSHA) Hazard Communication Standard (29 CFR 1910.1200) and the Canadian Workplace Hazardous Materials Information System (WHMIS).

HMIS RATING: HEALTH -- 0 FLAMMABILITY -- 0 REACTIVITY -- 0

 $See \, SECTION \, 8: EXPOSURE \, CONTROLS/PERSONAL \, PROTECTION \, for personal \, protective \, equipment \, recommendations.$ 

Prepared by: The Global Regulatory Department

Phone: 651-236-5842



FOSTER 32-61 802291PM

## **SAFETY DATA SHEET**

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The information and recommendations set forth herein are believed to be accurate. Because some of the information is derived from information provided to H.B. Fuller Construction Products, Inc. from its suppliers, and because H.B. Fuller Construction Products, Inc. has no control over the conditions of handling and use, H.B. Fuller Construction Products, Inc. makes no warranty, expressed or implied, regarding the accuracy of the data or the results to be obtained from the use thereof. The information is supplied solely for your information and consideration, and H.B. Fuller Construction Products, Inc. assumes no responsibility for use or reliance thereon. It is the responsibility of the user of H.B. Fuller Construction Products, Inc. products to comply with all applicable federal, state and local laws and regulations.





Print Date: 03-13-2017

#### SAFETY DATA SHEET

REVISION DATE: 03-13-2017 SUPERSEDES: 07-12-2016

## SECTION 1: IDENTIFICATION OF THE PRODUCT AND SUPPLIER

#### PRODUCT INFORMATION

PRODUCT: **FOSTER 40-20** 

PRODUCT DESCRIPTION: Coating INTENDED USE: Coating PRODUCT IDENTIFIER: 827566PM

## **COMPANY INFORMATION**

H.B. Fuller Construction Products Inc.

1105 S. Frontenac Street Aurora, IL 60504 Phone: 1-800-552-6225

> Medical Emergency Phone Number (24 Hours): 1-888-853-1758 Transport Emergency Phone Number (CHEMTREC): 1-800-424-9300

## **SECTION 2: HAZARDS IDENTIFICATION**

## **GHS Hazard Symbols:**





**GHS Signal Word:** Warning

**GHS** Classification: Skin Sensitisation Category 1; Hazardous to the aquatic environment - Acute Category

2; Hazardous to the aquatic environment - Chronic Category 2

**GHS Hazard Phrases:** 

**GHS Precautions:** 

May cause an allergic skin reaction.; Toxic to aquatic life with long lasting effects.

Avoid breathing dust/fume/gas/mist/vapours/spray. Contaminated work clothing **Safety Precautions:** should not be allowed out of the workplace. Avoid release to the environment. Wear

protective gloves/protective clothing/eye protection/face protection.

IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get First Aid Measures:

medical advice/attention. Wash contaminated clothing before reuse. Collect spillage.

Dispose of contents/container in accordance with local/regional/national/international Disposal:

regulation for hazardous wastes.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS#	PERCENT	Classification	Note
Calcium carbonate	471-34-1	5 - 10		* (see below)
Titanium dioxide	13463-67-7	5 - 10	Carc. 2; H351	* (see below)
Zinc oxide	1314-13-2	1 - 5	Aquatic Acute 1; H400 Aquatic Chronic 1; H410	
Mineral oil	Proprietary	0.1 - 1		
Iodo-2-propynyl butylcarbamate	55406-53-6	0.1 - 1	Aquatic Acute 1; H400 Acute Tox. 4; H332	

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#### SAFETY DATA SHEET

Acute Tox. 4; H302	
Eye Dam. 1; H318	
Skin Sens. 1; H317	
STOT SE 3; H335, H336	

\*This product contains one or more materials that may be hazardous when present as an airborne dust. During normal handling of the product, the material is encapsulated within the product and will not present an exposure risk. Once the product has reached its final state and is abraded or disturbed, dusting and exposure may occur. This product contains titanium dioxide, which is hazardous when present as an airborne dust. As provided, and during normal use of this product, this substance is encapsulated within the product. As such, it is considered to be inextricably bound, and not readily available for exposure.

Unlisted ingredients are not 'hazardous' per the Occupational Safety and Health Administration Hazard Communication Standard (29 CFR 1910.1200) and/or are not found on the Canadian Workplace Hazardous Materials Information System ingredient disclosure list. See Section 8 for exposure limit guidelines.

## **SECTION 4: FIRST AID MEASURES**

IF IN EYES: Use an eye wash to remove a chemical from your eye regardless of the level of hazard. Flush the affected eye for at least twenty minutes. Tilt the head to prevent chemical from transferring to the uncontaminated eye. Seek medical advice after flushing.

IF ON SKIN: Wash with soap and water. Get medical attention if irritation develops or persists.

IF INHALED: Remove to fresh air. Call a physician if symptoms persist.

IF SWALLOWED: Do not induce vomiting. Seek medical attention if symptoms develop. Provide medical care provider with this MSDS. Induced vomiting may lead to aspiration of the material into the lungs potentially causing chemical pneumonitis that may be fatal.

#### **SECTION 5: FIRE FIGHTING MEASURES**

EXTINGUISHING MEDIA: Use water spray, foam, dry chemical or carbon dioxide.

UNUSUAL FIRE AND EXPLOSION HAZARDS: There is a possibility of pressure buildup in closed containers

when heated. Water spray may be used to cool the containers.

SPECIAL FIRE FIGHTING INSTRUCTIONS: Persons exposed to products of combustion should wear self-

contained breathing apparatus and full protective equipment.

HAZARDOUS COMBUSTION PRODUCTS: Carbon dioxide, Carbon monoxide Metal fumes

## SECTION 6: ACCIDENTAL RELEASE MEASURES

SPECIAL PROTECTION: Exposure to the spilled material may be irritating or harmful. Follow

personal protective equipment recommendations found in Section 8 of this MSDS. Additional precautions may be necessary based on special circumstances created by the spill including; the material spilled, the

quantity of the spill, the area in which the spill occurred.

METHODS FOR CLEAN-UP: Dike if necessary, contain spill with inert absorbent and transfer to

containers for disposal. Keep spilled product out of sewers, watersheds,

or water systems.

Transport Emergency Phone Number (CHEMTREC): 1-800-424-9300

## **SECTION 7: HANDLING AND STORAGE**



Print Date: 03-13-2017 FOSTER 40-20 827566PM

#### SAFETY DATA SHEET

Handling: Avoid contacting and avoid breathing the material. Use only in a well ventilated

area.

Storage: Store in a cool, dry place. Protect from freezing. Consult the Technical Data Sheet for specific storage instructions.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

## **EXPOSURE LIMITS:**

Chemical Name	Note	ACGIH EXPOSURE LIMITS	OSHA PEL
Calcium carbonate	* (see below)	No data available.	15 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable fraction)
Titanium dioxide	* (see below)	10 mg/m3 TWA	15 mg/m3 TWA (total dust)
Zinc oxide		2 mg/m3 TWA (respirable fraction) 10 mg/m3 STEL (respirable fraction)	5 mg/m3 TWA (fume); 15 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable fraction)
Mineral oil		5 mg/m3 TWA (excluding metal working fluids, inhalable fraction)	5 mg/m3 TWA (as mist)

<sup>\*</sup>This product contains one or more materials that may be hazardous when present as an airborne dust. During normal handling of the product, the material is encapsulated within the product and will not present an exposure risk. Once the product has reached its final state and is abraded or disturbed, dusting and exposure may occur. This product contains titanium dioxide, which is hazardous when present as an airborne dust. As provided, and during normal use of this product, this substance is encapsulated within the product. As such, it is considered to be inextricably bound, and not readily available for exposure.

#### **ENGINEERING CONTROL METHODS:**

VENTILATION: General room ventilation might be required under normal conditions

of use.

EYE PROTECTION: Wear safety glasses when handling this product.

SKIN PROTECTION: Not normally required. Wear chemically resistant gloves to prevent

prolonged or repeated contact.

GLOVES: Nitrile

RESPIRATORY PROTECTION: No respiratory protection required under normal conditions of use.

Respirators should be selected by and used following requirements

found in OSHA's respirator standard (29 CFR 1910.134).

## **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

PHYSICAL STATE: Liquid COLOR: White Mild Sweet ODOR: ODOR THRESHOLD: Not established Not established FREEZING/MELTING POINT (deg. C): Not established BOILING POINT (deg. C): Not established FLASH POINT: Non flammable **EVAPORATION RATE:** Not established

FLAMMABILITY: Not a flammable solid or gas

UPPER EXPLOSIVE LIMIT (% in air):

LOWER EXPLOSIVE LIMIT (% in air):

VAPOR PRESSURE (mm Hg):

Not established

Not established



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#### SAFETY DATA SHEET

VAPOR DENSITY: Not established

WEIGHT PER GALLON (lbs.): 11.90 SPECIFIC GRAVITY: 1.430

SOLUBILITY: Not established OCTANOL/WATER COEFFICIENT: Not established AUTOIGNITION TEMPERATURE: Not established DECOMPOSITION TEMPERATURE: Not established VISCOSITY: No data available.

SOLIDS (% by weight): 69.0 VOC, weight percent 1.76

VOC, U.S. EPA Method 24, less water and exempt 42g/liter of material

solvents (theoretically determined)

## **SECTION 10: STABILITY AND REACTIVITY**

STABILITY: Stable under normal conditions.

CHEMICAL INCOMPATIBILITY: Not established HAZARDOUS POLYMERIZATION: Will not occur.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide, carbon dioxide Metal fumes

## SECTION 11: TOXICOLOGICAL INFORMATION

**Component Toxicity / Toxicology Data:** 

COMPONENT NAME	LD50/LC50
Barium compound	Dermal LD50 Rabbit > 2,000.00 mg/kg
2,2,4-Trimethyl-1,3-	Oral LD50 Rat 3,200 mg/kg
pentanediolmonoisobutyrate	

## This product is a mixture. Unless noted, the information below is based on components.

Skin corrosion / irritation: No irritation hazard in normal industrial use.

Serious eye damage / irritation :No irritation hazard in normal industrial use.

Respiratory / skin sensitization: No data available.

Germ cell mutagenicity: No data available.

Carcinogenicity: Contains a material that is suspected of causing cancer.

Reproductive toxicity: No data available.

Specific target organ toxicity-single exposure: No data available.

Respiratory irritation / Narcotic effects: No data available.

Specific target organ toxicity-repeated exposure: No data available.

Target organs potentially affected by exposure: Lungs

Aspiration hazard: Not an aspiration hazard.

Medical Conditions Aggravated by Exposure: Lung disease

## **SECTION 12: ECOLOGICAL INFORMATION**

OVERVIEW: No ecological information available for this product.

MOBILITY: No data available. PERSISTENCE: No data available. BIOACCUMULATION: No data available.



Print Date: 03-13-2017

## SAFETY DATA SHEET

# This product has not been tested for ecological effects. Relevant information for components is listed below:

Component:	Ecotoxicity values:	
2,2,4-Trimethyl-1,3-	Acute Toxicity (Fish): 96 Hr LC50 Pimephales promelas: 30 mg/L	
pentanediolmonoisobutyrate	Acute Toxicity (Daphnia): Not established	
	Acute Toxicity (Algae): 72 Hr EC50 Pseudokirchneriella subcapitata: 18.4 mg/L	

## **SECTION 13: DISPOSAL CONSIDERATIONS**

To the best of our knowledge, this product does not meet the definition of hazardous waste under the U.S. EPA Hazardous Waste Regulations 40 CFR 261. Solidify and dispose of in an approved landfill. Consult state, local or provincial authorities for more restrictive requirements.

# **SECTION 14: TRANSPORT INFORMATION**

Consult Bill of Lading for transportation information.

US DOT: NOT REGULATED

IATA: UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCES,

LIQUID, N.O.S. (ZINC OXIDE), 9, PGIII, MARINE POLLUTANT (PACKAGES <5 L NOT REGULATED, IATA 4.4, SP A197).

IMDG: UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCES,

LIQUID, N.O.S. (ZINC OXIDE), 9, III, MARINE POLLUTANT, (PACKAGES <5 L NOT REGULATED, IMDG 3.3 SP 969)

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## **SECTION 15: REGULATORY INFORMATION**

INVENTORY STATUS

U.S. EPA TSCA: This product is in compliance with the Toxic Substances Control Act's

Inventory requirements.

CANADIAN CEPA DSL: The components of this product are included on the DSL or are exempt

from DSL requirements.

EUROPEAN REACH: As a result of the introduction of REACH into Europe, this product

cannot be imported into Europe unless the REACH requirements are

met.

AUSTRALIA AICS: This product contains a component that is not on the Australian

Inventory (AICS).

CHINA IECSC INVENTORY: This product is in compliance with the Inventory of Existing Chemical

Substances in China (IECSC) requirements.

If you need more information about the inventory status of this product call 651-236-5858.

This product may contain chemical substances that are regulated for export by various government agencies (such as the Environmental Protection Agency, the Bureau of Industry and Security, or the Drug Enforcement Administration, among others). Before exporting this product from the USA or Canada, we recommend you contact us at reg\_request@hbfuller.com to request an export review.

This product contains a chemical substance that is subject to a Significant New Use Rule (SNUR) alpha.(Nonylphenyl)-.omega.-hydroxy-poly(oxy-1,2-ethanediyl)

under Section 5(a)(2) of TSCA:

## FEDERAL REPORTING

Print Date: 03-13-2017

FOSTER 40-20 827566PM

## **SAFETY DATA SHEET**

\*This product contains one or more materials that may be hazardous when present as an airborne dust. During normal handling of the product, the material is encapsulated within the product and will not present an exposure risk. Once the product has reached its final state and is abraded or disturbed, dusting and exposure may occur. This product contains titanium dioxide, which is hazardous when present as an airborne dust. As provided, and during normal use of this product, this substance is encapsulated within the product. As such, it is considered to be inextricably bound, and not readily available for exposure.

## EPA SARA Title III Section 313

Unless listed below, this product does not contain toxic chemical(s) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA) and 40 CFR part 372. EPA has advised that when a percentage range is listed the midpoint may be used to fulfill reporting obligations.

Chemical Name	CAS#	%
Barium compounds	13701-59-2	5 - 10
Zinc compounds	1314-13-2	1 - 5
3-Iodo-2-propynyl butylcarbamate	55406-53-6	0.1 - 1

## STATE REPORTING

Proposition 65, The Safe Drinking Water and Toxic Enforcement Act of 1986:

Unless listed below, this product does not contain known levels of any chemical known to the State of California to cause cancer or reproductive harm.

Chemical Name/List		CAS	Percent
Titanium dioxide	(Carcinogen)	13463-67-7	5 - 10
Quartz	(Carcinogen)	14808-60-7	0.1 - 1
Lead	(Carcinogen)	7439-92-1	0.001 - 0.01
Cadmium	(Carcinogen)	7440-43-9	0.001 - 0.01
Formaldehyde	(Carcinogen)	50-00-0	0.001 - 0.01
Arsenic compounds (inorganic)	(Carcinogen)	7440-38-2	< 10 ppm
Ethyl acrylate	(Carcinogen)	140-88-5	< 10 ppm
Lead compounds	(Carcinogen)		< 10 ppm
Lead	(Developmental toxin)	7439-92-1	0.001 - 0.01
Cadmium	(Developmental toxin)	7440-43-9	0.001 - 0.01
Lead	(Female reproductive toxin)	7439-92-1	0.001 - 0.01
Lead	(Male reproductive toxin)	7439-92-1	0.001 - 0.01
Cadmium	(Male reproductive toxin)	7440-43-9	0.001 - 0.01

## **Substances of Very High Concern (SVHC) Content:**

Unless listed below, this product does not contain SVHC's at 0.1% or greater, as of the version date of this SDS. tert-Octylphenol, ethoxylated

## **SECTION 16: OTHER INFORMATION**

SDS VERSION DATE: 03-13-2017

This Safety Data Sheet is prepared to comply with the United States Occupational Safety and Health Administration (OSHA) Hazard Communication Standard (29 CFR 1910.1200) and the Canadian Workplace Hazardous Materials Information System (WHMIS).

HMIS RATING: HEALTH -- 2 FLAMMABILITY -- 0 REACTIVITY -- 0

See SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for personal protective equipment recommendations.

Prepared by: The Global Regulatory Department

Phone: 651-236-5842





Print Date: 03-13-2017

FOSTER 40-20 827566PM

## SAFETY DATA SHEET

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The information and recommendations set forth herein are believed to be accurate. Because some of the information is derived from information provided to H.B. Fuller Construction Products, Inc. from its suppliers, and because H.B. Fuller Construction Products, Inc. has no control over the conditions of handling and use, H.B. Fuller Construction Products, Inc. makes no warranty, expressed or implied, regarding the accuracy of the data or the results to be obtained from the use thereof. The information is supplied solely for your information and consideration, and H.B. Fuller Construction Products, Inc. assumes no responsibility for use or reliance thereon. It is the responsibility of the user of H.B. Fuller Construction Products, Inc. products to comply with all applicable federal, state and local laws and regulations.



FOSTER 40-80 802320PM

## SAFETY DATA SHEET

REVISION DATE: 09-17-2019 SUPERSEDES: 01-25-2016

## SECTION 1: IDENTIFICATION OF THE PRODUCT AND SUPPLIER

## PRODUCT INFORMATION

PRODUCT: FOSTER 40-80
PRODUCT DESCRIPTION: Disinfectant
INTENDED USE: Cleaner
PRODUCT IDENTIFIER: 802320PM

## **COMPANY INFORMATION**

H.B. Fuller Construction Products Inc.

1105 S. Frontenac Street Aurora, IL 60504

Phone: 1-800-552-6225

Medical Emergency Phone Number (24 Hours): 1-888-853-1758 Transport Emergency Phone Number (CHEMTREC): 1-800-424-9300

# **SECTION 2: HAZARDS IDENTIFICATION**

**GHS Classification:** This product is not classified as hazardous under GHS criteria.

**GHS Precautions:** 

Safety Precautions: No special precautionary measures are required. Please read the entire Safety Data

Sheet for other information regarding handling of this product.

**First Aid Measures:** IF SWALLOWED: Do not induce vomiting. Seek medical attention if symptoms

develop. IF IN EYES: Use an eye wash to remove chemical from the eye. IF ON SKIN: Wash with soap and water. IF INHALED: Remove individual to fresh air after

an airborne exposure if any symptoms develop.

## **SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical Name	CAS#	PERCENT	Classification	Note

Unlisted ingredients are not 'hazardous' per the Occupational Safety and Health Administration Hazard Communication Standard (29 CFR 1910.1200) and/or are not found on the Canadian Workplace Hazardous Materials Information System ingredient disclosure list. See Section 8 for exposure limit guidelines.

# **SECTION 4: FIRST AID MEASURES**

IF IN EYES: Flush eyes with plenty of water for at least 20 minutes retracting eyelids often. Tilt the head to prevent chemical from transferring to the uncontaminated eye. Get immediate medical attention.

IF ON SKIN: Wash with soap and water.

IF INHALED: Remove individual to fresh air after an airborne exposure if any symptoms develop, as a precautionary measure.

IF SWALLOWED: Do not induce vomiting. Seek medical attention if symptoms develop. Provide medical care provider with this MSDS. Induced vomiting may lead to aspiration of the material into the lungs potentially causing chemical pneumonitis that may be fatal.

# **SECTION 5: FIRE FIGHTING MEASURES**



FOSTER 40-80 802320PM

## SAFETY DATA SHEET

EXTINGUISHING MEDIA: Use water spray, foam, dry chemical or carbon dioxide.

UNUSUAL FIRE AND EXPLOSION HAZARDS: There is a possibility of pressure buildup in closed containers

when heated. Water spray may be used to cool the containers. Persons exposed to products of combustion should wear self-

contained breathing apparatus and full protective equipment.

HAZARDOUS COMBUSTION PRODUCTS: Carbon dioxide, Carbon monoxide

## SECTION 6: ACCIDENTAL RELEASE MEASURES

SPECIAL FIRE FIGHTING INSTRUCTIONS:

SPECIAL PROTECTION: No adverse health effects expected from the clean-up of spilled material.

Follow personal protective equipment recommendations found in

Section 8 of this SDS.

METHODS FOR CLEAN-UP: Dike if necessary, contain spill with inert absorbent and transfer to

containers for disposal. Keep spilled product out of sewers, watersheds,

or water systems.

Transport Emergency Phone Number (CHEMTREC): 1-800-424-9300

## **SECTION 7: HANDLING AND STORAGE**

Handling: No special handling instructions due to toxicity.

Storage: Store in a cool, dry place. Protect from freezing. Consult the Technical Data Sheet for specific storage instructions.

# SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### **EXPOSURE LIMITS:**

Chemical Name	Note	ACGIH EXPOSURE LIMITS	OSHA PEL	
No data available.				

## **ENGINEERING CONTROL METHODS:**

VENTILATION: General room ventilation might be required under normal conditions

of use.

EYE PROTECTION: Wear safety glasses with side shields when handling this product.

Wear additional eye protection such as chemical splash goggles and/or face shield when the possibility exists for eye contact with splashing or spraying liquid, or airborne material. Have an eye wash

station available.

SKIN PROTECTION: Not normally considered a skin hazard. Where use can result in skin

contact, practice good personal hygiene. Wash hands and other exposed areas with mild soap and water before eating, drinking, and

when leaving work.

GLOVES: Not normally required. Use nitrile gloves if conditions warrant.

RESPIRATORY PROTECTION: No respiratory protection required under normal conditions of use.

Respirators should be selected by and used following requirements

found in OSHA's respirator standard (29 CFR 1910.134).



FOSTER 40-80 802320PM

## SAFETY DATA SHEET

# **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

PHYSICAL STATE: Liquid
COLOR: Light Green
ODOR: Fragrant
ODOR THRESHOLD: Not established

pH: 9.7

FREEZING/MELTING POINT (deg. C):

BOILING POINT (deg. C):

Not established

Not established

FLASH POINT:

Non flammable

EVAPORATION RATE:

Not established

FLAMMABILITY: Not a flammable solid or gas

UPPER EXPLOSIVE LIMIT (% in air):

LOWER EXPLOSIVE LIMIT (% in air):

VAPOR PRESSURE (mm Hg):

VAPOR DENSITY:

Not established

Not established

WEIGHT PER GALLON (lbs.): 8.32 SPECIFIC GRAVITY: 1.000

SOLUBILITY:

OCTANOL/WATER COEFFICIENT:

AUTOIGNITION TEMPERATURE:

DECOMPOSITION TEMPERATURE:

VISCOSITY:

Not established

Not established

Not established

Not established

Not established

SOLIDS (% by weight): 0.2 VOC, weight percent 0.02

VOC, U.S. EPA Method 24, less water and exempt 39.7g/liter of material

solvents (theoretically determined)

## **SECTION 10: STABILITY AND REACTIVITY**

STABILITY: Stable under normal conditions.

CHEMICAL INCOMPATIBILITY: Not established HAZARDOUS POLYMERIZATION: Will not occur.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide, carbon dioxide

# **SECTION 11: TOXICOLOGICAL INFORMATION**

**Component Toxicity / Toxicology Data:** 

COMPONENT NAME	LD50	)/LC50
No data available.		

# This product is a mixture. Unless noted, the information below is based on components.

Skin corrosion / irritation: No irritation hazard in normal industrial use.

Serious eye damage / irritation :Can cause moderate irritation, tearing and reddening, but not likely to permanently injure eye tissue.

Respiratory / skin sensitization: No data available.

Germ cell mutagenicity: No data available.

Carcinogenicity: No data available.

Reproductive toxicity: No data available.

Specific target organ toxicity-single exposure: No data available.



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## SAFETY DATA SHEET

Respiratory irritation / Narcotic effects: No data available.

Specific target organ toxicity-repeated exposure: No data available.

Target organs potentially affected by exposure: No organs known to be damaged from exposure to this product.

Aspiration hazard: Not an aspiration hazard.

Medical Conditions Aggravated by Exposure: No medical conditions affected by exposure.

# **SECTION 12: ECOLOGICAL INFORMATION**

OVERVIEW: No ecological information available for this product.

MOBILITY: No data available. PERSISTENCE: No data available. BIOACCUMULATION: No data available.

# This product has not been tested for ecological effects. Relevant information for components is listed below:

Component:	Ecotoxicity values:
No data available.	Acute Toxicity (Fish):
	Acute Toxicity (Daphnia):
	Acute Toxicity (Algae):

## **SECTION 13: DISPOSAL CONSIDERATIONS**

To the best of our knowledge, this product does not meet the definition of hazardous waste under the U.S. EPA Hazardous Waste Regulations 40 CFR 261. Solidify and dispose of in an approved landfill. Consult state, local or provincial authorities for more restrictive requirements.

# **SECTION 14: TRANSPORT INFORMATION**

Consult Bill of Lading for transportation information.

US DOT: NOT REGULATED NOT REGULATED IMDG: NOT REGULATED

# **SECTION 15: REGULATORY INFORMATION**

## **INVENTORY STATUS**

U.S. EPA TSCA: This product is in compliance with the Toxic Substances Control Act's

Inventory requirements.

CANADIAN CEPA DSL: The components of this product are included on the DSL or are exempt

from DSL requirements.

EUROPEAN REACH: As a result of the introduction of REACH into Europe, this product

cannot be imported into Europe unless the REACH requirements are

met.

AUSTRALIA AICS: This product is in compliance with the Australian Inventory of

Chemical Substances requirements.

KOREAN TCCL: This product is in compliance with the Korean Existing Chemicals List

requirements.

If you need more information about the inventory status of this product call 651-236-5858.

This product may contain chemical substances that are regulated for export by various government agencies (such as the Environmental Protection Agency, the Bureau of Industry and Security, or the Drug Enforcement Administration, among others). Before exporting this product from the USA or Canada, we recommend you contact us at reg.request@hbfuller.com to request an export review.



FOSTER 40-80 802320PM

## SAFETY DATA SHEET

## FEDERAL REPORTING

#### EPA SARA Title III Section 313

Unless listed below, this product does not contain toxic chemical(s) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA) and 40 CFR part 372. EPA has advised that when a percentage range is listed the midpoint may be used to fulfill reporting obligations.

Chemical Name CAS# %

#### STATE REPORTING

Proposition 65, The Safe Drinking Water and Toxic Enforcement Act of 1986:

Unless listed below, this product does not contain known levels of any chemical known to the State of California to cause cancer or reproductive harm.

Chemical Name/List CAS Percent

# Substances of Very High Concern (SVHC) Content:

Unless listed below, this product does not contain SVHC's at 0.1% or greater, as of the version date of this SDS.

## **SECTION 16: OTHER INFORMATION**

SDS VERSION DATE: 09-17-2019

This Safety Data Sheet is prepared to comply with the United States Occupational Safety and Health Administration (OSHA) Hazard Communication Standard (29 CFR 1910.1200) and the Canadian Workplace Hazardous Materials Information System (WHMIS).

HMIS RATING: HEALTH -- 0 FLAMMABILITY -- 0 REACTIVITY -- 0

See SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for personal protective equipment recommendations.

Prepared by: The Global Regulatory Department

Phone: 651-236-5842

The information and recommendations set forth herein are believed to be accurate. Because some of the information is derived from information provided to H.B. Fuller Construction Products, Inc. from its suppliers, and because H.B. Fuller Construction Products, Inc. has no control over the conditions of handling and use, H.B. Fuller Construction Products, Inc. makes no warranty, expressed or implied, regarding the accuracy of the data or the results to be obtained from the use thereof. The information is supplied solely for your information and consideration, and H.B. Fuller Construction Products, Inc. assumes no responsibility for use or reliance thereon. It is the responsibility of the user of H.B. Fuller Construction Products, Inc. products to comply with all applicable federal, state and local laws and regulations.

# Safety Data Sheet Gasoline, Unleaded





# SECTION 1: PRODUCT AND COMPANY IDENTIFICATION:

Product name

Gasoline, Unleaded

Synonyms

Blend of Highly Flammable Petroleum Distillates, Regular, Mid-Grade, Premium,

888100008809

SDS Number

888100008809

Version

1.1

**Product Use Description** 

Fuel

Company

For: Tesoro Refining & Marketing Co.

19100 Ridgewood Parkway, San Antonio, TX 78259

Tesoro Call Center

(877) 783-7676

Chemtrec

(800) 424-9300

(Emergency Contact)

# SECTION 2. HAZARDS IDENTIFICATION

Classifications

Flammable Liquid – Category 1 or 2 depending on formulation.

Aspiration Hazard – Category 1 Carcinogenicity – Category 2

Specific Target Organ Toxicity (Repeated Exposure) – Category 2 Specific Target Organ Toxicity (Single Exposure) – Category 3

Skin Irritation - Category 2 Eye Irritation - Category 2B

Chronic Aquatic Toxicity - Category 2

**Pictograms** 



Signal Word

Danger

**Hazard Statements** 

Extremely flammable liquid and vapor.

May be fatal if swallowed and enters airways – do not siphon gasoline by mouth. Suspected of causing blood cancer if repeated over-exposure by inhalation and/or skin contact occurs.

May cause damage to liver, kidneys and nervous system by repeated and prolonged inhalation or skin contact. Causes eye irritation. Can be absorbed

through skin.

May cause drowsiness or dizziness. Extreme exposure such as intentional

inhalation may cause unconsciousness, asphyxiation and death.

Repeated or prolonged skin contact can cause irritation and dermatitis.

# Harmful to aquatic life.

# Precautionary statements

Prevention

: Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood. Keep away from heat, sparks, open flames, welding and hot surfaces.

No smoking.

Keep container tightly closed.

Ground and/or bond container and receiving equipment.

Use explosion-proof electrical equipment.

Use only non-sparking tools (if tools are used in flammable atmosphere).

Take precautionary measures against static discharge.

Wear gloves, eye protection and face protection (as needed to prevent skin

and eye contact with liquid).

Wash hands or liquid-contacted skin thoroughly after handling.

Do not eat, drink or smoke when using this product.

Do not breathe vapors.

Use only outdoors or in a well-ventilated area.

Response

: In case of fire: Use dry chemical, CO2, water spray or fire fighting foam to

extinguish.

If swallowed: Immediately call a poison center, doctor, hospital emergency room, medical clinic or 911. Do NOT induce vorniting. Rinse mouth. If on skin (or hair): Take off immediately all contaminated clothing. Rinse

skin with water/shower.

If in eye: Rinse cautiously with water for several minutes. Remove contact lenses,

if present and easy to do. Continue rinsing.

If skin or eye irritation persists, get medical attention.

If inhaled: Remove person to fresh air and keep comfortable for breathing.

Get medical attention if you feel unwell.

Storage

Store in a well ventilated place. Keep cool. Store locked up. Keep container tightly closed. Use only approved containers. Some containers not approved for

gasoline may dissolve and release flammable gasoline liquid and vapors.

Disposal

: Dispose of contents/containers to approved disposal site in accordance with

local, regional, national, and/or international regulations.

# SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS-No.	
Gasoline, natural; Low boiling point naphtha	8006-61-9	10 - 30%
Toluene	108-88-3	10 - 30%
Xylene	1330-20-7	10 - 30%
Ethanol; ethyl alcohol	64-17-5	0-8.2%
Trimethylbenzene	25551-13-7	1 - 5%
Isopentane; 2-methylbutane	78-78-4	1 - 5%

Naphthalene	91-20-3	1 - 5%
<i>d</i> enzene	71-43-2	Less than 1,3%
Pentane	109-66-0	1 - 5%
Cyclohexane	110-82-7	1 - 5%
Ethylbenzene	100-41-4	1 - 5%
Butane	106-97-8	1 - 20%
Heptane [and isomers]	142-82-5	0.5 - 0.75%
N-hexane	110-54-3	0.5 - 0.75%

# SECTION 4: FIRST AID MEASURES

Inhalation If inhaled, remove to fresh air. If not breathing, give artificial respiration. If

breathing is difficult, give oxygen. Seek medical attention immediately.

Skin contact In case of contact, immediately flush skin with plenty of water. Take off

contaminated clothing and shoes immediately. Wash contaminated clothing before re-use. Contaminated leather, particularly footwear, must be discarded. Note that contaminated clothing may be a fire hazard. Seek medical advice if

symptoms persist or develop.

Eye contact Remove contact lenses. Rinse immediately with plenty of water, also under the

eyelids, for at least 15 minutes. Seek medical advice if symptoms persist or

develop.

Ingestion Do NOT induce vomiting. Never give anything by mouth to an unconscious

person. Obtain medical attention.

Notes to physician Symptoms: Dizziness, Discomfort, Headache, Nausea, Kidney disorders, Liver

> disorders. Aspiration may cause pulmonary edema and pneumonitis. Swallowing gasoline is more likely to be fatal for small children than adults, even if aspiration

does not occur.

# SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media SMALL FIRES: Any extinguisher suitable for Class B fires, dry chemical, CO2,

water spray or fire fighting foam. LARGE FIRES: Water spray, fog or fire fighting foam. Water may be ineffective for fighting the fire, but may be used to cool fire-

exposed containers. Keep containers and surroundings cool with water spray.

Specific hazards during fire fighting

: Extremely flammable liquid and vapor. This material is combustible/flammable and

is sensitive to fire, heat, and static discharge.

Special protective equipment

for fire-fighters

Firefighting activities that may result in potential exposure to high heat, smoke or toxic by-products of combustion should require NIOSH/MSHA- approved pressuredemand self-contained breathing apparatus with full facepiece and full protective

clothing.

## Further information

Isolate area around container involved in fire. Cool tanks, shells, and containers exposed to fire and excessive heat with water. For massive fires the use of unmanned hose holders or monitor nozzles may be advantageous to further minimize personnel exposure. Major fires may require withdrawal, allowing the tank to burn. Large storage tank fires typically require specially trained personnel and equipment to extinguish the fire, often including the need for properly applied fire fighting foam. Exposure to decomposition products may be a hazard to health. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Use water spray to cool unopened containers. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

# SECTION 6: ACCIDENTAL RÉLEASE MEASURES

Personal precautions

Evacuate personnel to safe areas. Ventilate the area. Remove all sources of ignition. Response and clean-up crews must be properly trained and must utilize proper protective equipment (see Section 8).

**Environmental precautions** 

Discharge into the environment must be avoided. If the product contaminates rivers and lakes or drains inform respective authorities.

Methods for cleaning up

Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations.

# SECTION 7. HANDLING AND STORAGE SECTION 7.

Precautions for safe handling

Keep away from fire, sparks and heated surfaces. No smoking near areas where material is stored or handled. The product should only be stored and handled in areas with intrinsically safe electrical classification.

Hydrocarbon liquids including this product can act as a non-conductive flammable liquid (or static accumulators), and may form ignitable vapor-air mixtures in storage tanks or other containers. Precautions to prevent static-initated fire or explosion during transfer, storage or handling, include but are not limited to these examples:

- (1) Ground and bond containers during product transfers. Grounding and bonding may not be adequate protection to prevent ignition or explosion of hydrocarbon liquids and vapors that are static accumulators.
- (2) Special slow load procedures for "switch loading" must be followed to avoid the static ignition hazard that can exist when higher flash point material (such as fuel oil or diesel) is loaded into tanks previously containing low flash point products (such gasoline or naphtha).
- (3) Storage tank level floats must be effectively bonded.

For more information on precautions to prevent static-initated fire or explosion, see NFPA 77, Recommended Practice on Static Electricity (2007), and API Recommended Practice 2003, Protection Against Ignitions Arising Out of Static, Lightning, and Stray Currents (2008).

Conditions for safe storage, including incompatibilities

Keep away from flame, sparks, excessive temperatures and open flame. Use approved containers. Keep containers closed and clearly labeled. Empty or partially full product containers or vessels may contain explosive vapors. Do not pressurize, cut, heat, weld or expose containers to sources of ignition. Store in a well-ventilated area. The storage area should comply with NFPA 30 "Flammable and Combustible Liquid Code". The cleaning of tanks previously containing this product should follow API Recommended Practice (RP) 2013 "Cleaning Mobile Tanks In Flammable and Combustible Liquid Service" and API RP 2015 "Cleaning Petroleum Storage Tanks".

Reports suggest that government-mandated ethanol, if present, may not be compatible with fiberglass gasoline tanks. Ethanol may dissolve fiberglass resin, causing engine damage and possibly allow leakage of explosive gasoline.

Keep away from food, drink and animal feed. Incompatible with oxidizing agents. Incompatible with acids.

No decomposition if stored and applied as directed. Emergency eye wash capability should be available in the near proximity to operations presenting a potential splash exposure. Store only in containers approved and labeled for gasoline.

# SECTION 8, EXPOSURE CONTROLS / PERSONAL PROTECTION

# Exposure Guidelines

List	Components:	CAS-No.	Type:	Value
OSHA	Benzene	71-43-2	TWA	1 ppm
		71-43-2	STEL	5 ppm
		71-43-2	OSHA_ACT	0.5 ppm
OSHA Z1	Xylene	1330-20-7	PEL	100 ppm 435 mg/m3
	Ethanol; Ethyl aicohol	64-17-5	PEL	1,000 ppm 1,900 mg/m3
	Naphthaiene	91-20-3	PEL	10 ppm 50 mg/m3
	Cyclohexane	110-82-7	PEL	300 ppm 1,050 mg/m3
	Ethylbenzene	100-41-4	PEL	100 ppm 435 mg/m3
1	Heptane (and isomers)	142-82-5	PEL	500 ppm 2,000 mg/m3
·	N-hexane	110-54-3	PEL	500 ppm 1,800 mg/m3
ACGIH	Toluene	108-88-3	TWA	50 ppm
	Xylene	1330-20-7	TWA	100 ppm
		-1330-20-7	STEL	150 ppm
	Ethanol; Ethyl alcohol	64-17-5	TWA	1,000 ppm
	Trimethylbenzene	25551-13-7	TWA	25 ppm
	Isopentane; 2-Methylbutane	78-78-4	TWA	600 ppm
	Naphthalene	91-20-3	TWA	10 ppm
		91-20-3	STEL	15 ppm
	Benzene	71-43-2	TWA	0.5 ppm
		71-43-2	STEL	2.5 ppm
***************************************	Pentane	109-66-0	TWA	600 ppm
······································	Cyclohexane	110-82-7	TWA	100 ppm
	Ethylbenzene	100-41-4	TWA	100 ppm
		100-41-4	STEL	125 ppm
	Heptane [and isomers]	142-82-5	TWA	400 ppm
	<u> </u>	142-82-5	STEL	500 ppm

# SAFETY DATA SHEET

N-hexane

# GASOLINE, UNLEADED

50 ppm

110-54-3

14-Hexaric		110-04-3	1177	эо ррит		
Engineering measures	bełov spac	Use adequate ventilation to keep gas and vapor concentrations of this product below occupational exposure and flammability limits, particularly in confined spaces. Use only intrinsically safe electrical equipment approved for use in classified areas.				
Eye protection	splas	Safety glasses or goggles are recommended where there is a possibility of splashing or spraying. Ensure that eyewash stations and safety showers are close to the workstation location.				
Hand protection		es constructed of fications for further		ene are recommended. Consult manufacturer		
Skin and body protection	TyCh Flam	f needed to prevent skin contact, chemical protective clothing such as of DuPont TyChem®, Saranex or equivalent recommended based on degree of exposure. Flame resistant clothing such as Nomex ® is recommended in areas where material is stored or handled.				
Respiratory protection	canis conce irritati 29 Cf manu NIOS poten defici	A NIOSH/ MSHA-approved air-purifying respirator with organic vapor cartridges of canister may be permissible under certain circumstances where airborne concentrations are or may be expected to exceed exposure limits or for odor or irritation. Protection provided by air-purifying respirators is limited. Refer to OSHA 29 CFR 1910.134, ANSI Z88.2-1992, NIOSH Respirator Decision Logic, and the manufacturer for additional guidance on respiratory protection selection. Use a NIOSH/ MSHA-approved positive-pressure supplied-air respirator if there is a potential for uncontrolled release, exposure levels are not known, in oxygen-deficient atmospheres, or any other circumstance where an air-purifying respirato may not provide adequate protection.				
Work / Hygiene practices	opera practi eating on the produ Promi laund	mergency eye wash capability should be available in the near proximity to perations presenting a potential splash exposure. Use good personal hygiene ractices. Avoid repeated and/or prolonged skin exposure. Wash hands before ating, drinking, smoking, or using toilet facilities. Do not use as a cleaning solvent the skin. Do not use solvents or harsh abrasive skin cleaners for washing this roduct from exposed skin areas. Waterless hand cleaners are effective, romptly remove contaminated clothing and launder before reuse. Use care who undering to prevent the formation of flammable vapors which could ignite via asher or dryer. Consider the need to discard contaminated leather shoes and				

# SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Clear to straw colored liquid

Odor : Characteristic hydrocarbon-like

Odor threshold 0.5 - 1.1 ppm

pH : Not applicable

Melting point/freezing point About -101°C (-150°F)

Initial boiling point & range Boiling point varies: 30 – 200°C (85 – 392°F)

Flash point <-21°C (-5.8°F)

Evaporation rate : Higher initially and declining as lighter components evaporate

Flammability (solid, gas) : Flammable vapor released by liquid

Ipper explosive limit 7.6 %(V)

Lower explosive limit 1.3 %(V)

Vapor pressure 345 - 1,034 hPa at 37.8 °C (100.0 °F)

Vapor density (air = 1) Approximately 3 to 4

Relative density (water = 1) 0.8 g/mL

Solubility (in water) Negligible

Partition coefficient (n-octanol/water)

2 - 7 as log Pow

Auto-ignition temperature Approximately 250°C (480°F)

Decomposition temperature Will evaporate or boil and possibly ignite before decomposition occurs.

Kinematic viscosity 0.64 to 0.88 mm<sup>2</sup>/s range reported for gasoline

Conductivity (conductivity can be reduced by environmental factors such

as a decrease in temperature)

Hydrocarbon liquids without static dissipater additive may have conductivity below 1 picoSiemens per meter (pS/m). The highest electro-static ignition risks are associated with "ultra-low conductivities" below 5 pS/m. See Section 7 for sources of information on defining safe loading and handling procedures for low

conductivity products.

# SECTION 10. STABILITY AND REACTIVITY

Reactivity : Vapors may form explosive mixture with air. Hazardous polymerization does not

occur.

Chemical stability : Stable under normal conditions.

Possibility of hazardous

reactions

Can react with strong oxidizing agents, peroxides, alkaline products and strong

acids. Contact with nitric and sulfuric acids will form nitrocresols that can

decompose violently.

Conditions to avoid : Avoid high temperatures, open flames, sparks, welding, smoking and other

ignition sources. Avoid static charge accumulation and discharge (see Section 7).

Hazardous decomposition

products

: Ignition and burning can release carbon monoxide, carbon dioxide and non-

combusted hydrocarbons (smoke).

# SECTION 11. TOXICOLOGICAL INFORMATION

Skin contact : Irritating to skin. Can be partially absorbed through skin.

Eye contact : Irritating to eyes.

Ingestion : Aspiration hazard if liquid is inhaled into lungs, particularly from vomiting after

ingestion. Aspiration may result in chemical pneumonia, severe lung damage,

respiratory failure and even death. Ingestion may cause gastrointestinal

disturbances, including irritation, nausea, vomiting and diarrhea, and central nervous (brain) effects similar to alcohol intoxication. In severe cases, tremors, convulsions,

loss of consciousness, coma, respiratory arrest and death may occur.

# GASOLINE: UNLEADED

# Inhalation and further information

Acute toxicity of benzene results primarily from depression of the central nervous system (CNS). Inhalation of concentrations over 50 ppm can produce headache, lassitude, weariness, dizziness, drowsiness, over excitation. Exposure to very high levels can result in unconsciousness and death.

Repeated over-exposure may cause liver and kidney injuries. Components of the product may affect the nervous system.

IARC has determined that gasoline and gasoline exhaust are possibly carcinogenic in humans, Inhalation exposure to completely vaporized unleaded gasoline caused kidney cancers in male rats and liver tumors in female mice. The U.S. EPA has determined that the male kidney tumors are species-specific and are irrelevant for human health risk assessment. The significance of the tumors seen in female mice is not known. Exposure to light hydrocarbons in the same boiling range as this product has been associated in animal studies with effects to the central and peripheral nervous systems, liver, and kidneys. The significance of these animal models to predict similar human response to gasoline is uncertain.

This product contains benzene. Human health studies indicate that prolonged and/or repeated overexposure to benzene may cause damage to the blood-forming system (particularly bone marrow), and serious blood disorders such as aplastic anemia and leukemia. Benzene is listed as a human carcinogen by the NTP, IARC.

OSHA and ACGIH.

# Component:

Gasoline, natural; Low boiling point naphtha

Acute oral toxicity: LD50 rat

Dose: 18.8 mg/kg

Acute inhalation toxicity: LC50 rat

Dose: 20.7 mg/L Exposure time: 4 h

Skin irritation: Classification: Irritating to skin.

Result: Mild skin irritation

Eye irritation: Classification: Irritating to eyes.

Result: Moderate eye irritation

Toluene

108-88-3

Acute oral toxicity: LD50 rat

Dose: 636 mg/kg

Acute dermal toxicity: LD50 rabbit

Dose: 12,124 mg/kg

Acute inhalation toxicity: LC50 rat

Dose: 49 mg/l Exposure time: 4 h

Skin irritation: Classification: Irritating to skin.

Result: Mild skin irritation

Prolonged skin contact may defat the skin and produce dermatitis.

Eye irritation: Classification: Irritating to eyes.

Result: Mild eye irritation

Xylene

1330-20-7

Acute oral toxicity: LD50 rat

Dose: 2,840 mg/kg

Acute dermal toxicity: LD50 rabbit

Dose: ca. 4,500 mg/kg

Acute inhalation toxicity: LC50 rat

Dose: 6,350 mg/f Exposure time: 4 h

Skin irritation: Classification: Irritating to skin.

Result: Mild skin irritation

		Repeated or prolonged exposure may cause skin irritation and dermatitis, due to degreasing properties of the product. <u>Eye irritation:</u> Classification: Irritating to eyes.  Result: Mild eye irritation
Ethanoi; Ethyl alcohol	64-17-5	Acute oral toxicity: LD50 rat Dose: 6,200 mg/kg
		Acute dermal toxicity: LD50 rabbit Dose: 19,999 mg/kg
		Acute inhalation toxicity: LC50 rat Dose: 8,001 mg/l Exposure time: 4 h
		Skin irritation: Classification: Irritating to skin. Result: Mild skin irritation Prolonged skin contact may cause skin irritation and/or dermatitis.  Eve irritation: Classification: Irritating to eyes. Result: Mild eye irritation Mild eye irritation
Naphthalene	91-20-3	Acute oral toxicity: LD50 rat Dose: 2,001 mg/kg
		Acute dermal toxicity: LD50 rat Dose: 2,501 mg/kg
		Acute inhalation toxicity: LC50 rat Dose: 101 mg/l Exposure time: 4 h
		Skin irritation: Classification: Irritating to skin. Result: Mild skin irritation
		Eye irritation: Classification: Irritating to eyes. Result: Mild eye irritation
		Carcinogenicity: N11.00422130
Benzene	71-43-2	Acute oral toxicity: LD50 rat Dose: 930 mg/kg
		Acute inhalation toxicity: LC50 rat Dose: 44 mg/l Exposure time: 4 h
		Skin irritation: Classification: Irritating to skin. Result: Mild skin irritation Repeated or prolonged exposure may cause skin irritation and dermatitis, due to degreasing properties of the product.  Eye irritation: Classification: Irritating to eyes. Result: Risk of serious damage to eyes.
Pentane	109-66-0	Acute oral toxicity: LD50 rat Dose: 2,001 mg/kg
	·	Acute inhalation toxicity: LC50 rat Dose: 364 mg/l Exposure time: 4 h
		Skin irritation: Repeated or prolonged exposure may cause skin irritation and dermatitis, due to degreasing properties of the product.  Eve irritation: Classification: Irritating to eyes.  Result: Mild eye irritation
Cyclohexane	110-82-7	Acute dermal toxicity: LD50 rabbit Dose: 2,001 mg/kg
		Acute inhalation toxicity: LC50 rat Dose: 14 mg/l Exposure time: 4 h

# AFETY DATA SHEET # # GASOLINE, UNLEADED

Skin irritation: Classification: Irritating to skin.

Result: Skin irritation

Eye irritation: Classification: Irritating to eyes.

Result: Mild eye imitation

Ethylbenzene 100-41-4 Acute oral toxicity: LD50 rat

Dose: 3,500 mg/kg

Acute dermal toxicity: LD50 rabbit

Dose: 15,500 mg/kg

Acute inhalation toxicity: LC50 rat

Dose: 18 mg/l Exposure time: 4 h

Skin irritation: Classification: Irritating to skin.

Result: Mild skin irritation

Eye irritation: Classification: Irritating to eyes. Result: Risk of serious damage to eyes.

Heptane [and isomers] 142-82-5

Acute oral toxicity: LD50 rat

Dose: 15,001 mg/kg

Acute inhalation toxicity: LC50 rat

Dose: 103 g/m3 Exposure time: 4 h

Skin irritation: Classification: Irritating to skin.

Result: Skin irritation

Repeated or prolonged exposure may cause skin irritation and dermatitis, due

to degreasing properties of the product. Eye irritation: Classification: Irritating to eyes,

Result: Mild eye irritation

N-hexane

110-54-3 Acute oral toxicity: LD50 rat

Dose: 25,000 mg/kg

Acute dermal toxicity: LD50 rabbit

Dose: 2,001 mg/kg

Acute inhalation toxicity: LC50 rat

Dose: 171.6 mg/l Exposure time: 4 h

Skin irritation: Classification: Irritating to skin.

Result: Skin irritation

Eye irritation: Classification: Irritating to eyes.

Result: Mild eye irritation

Teratogenicity: N11.00418960

Carcinogenicity

NTP : Naphthalene (CAS-No.: 91-20-3)

Benzene (CAS-No.: 71-43-2)

IARC : Gasoline, natural; Low boiling point naphtha (CAS-No.: 8006-61-9)

Naphthalene (CAS-No.: 91-20-3) Benzene (CAS-No.: 71-43-2)

Ethylbenzene (CAS-No.: 100-41-4)

**OSHA** : Benzene (CAS-No.: 71-43-2)

CA Prop 65 : WARNING! This product contains a chemical known to the State of

California to cause birth defects or other reproductive harm.

Toluene (CAS-No.: 108-88-3)

Benzene (CAS-No.: 71-43-2)

# SECTION 12. ECOLOGICAL INFORMATION

Additional ecological

information

Keep out of sewers, drainage areas, and waterways. Report spills and releases, as

applicable, under Federal and State regulations.

Component:

Toluene

Toxicity to fish:

LC50

Species: Carassius auratus (goldfish)

Dose: 13 mg/l Exposure time: 96 h

Acute and prolonged toxicity for aquatic invertebrates:

EC50

Species: Daphnia magna (Water flea)

Dose: 11.5 mg/i Exposure time: 48 h

Toxicity to algae:

IC50

Species: Selenastrum capricornutum (green algae)

Dose: 12 mg/l Exposure time: 72 h

Ethanol; Ethyl alcohol

64-17-5

108-88-3

Toxicity to fish:

LC50

Species: Leuciscus idus (Golden orfe)

Dose: 8,140 mg/l Exposure time: 48 h

Acute and protonged toxicity for aquatic invertebrates:

EC50

Species: Daphnia magna (Water flea)

Dose: 9,268 - 14,221 mg/l Exposure time: 48 h

Isopentane; 2-Methylbutane

78-78-4

Toxicity to fish:

LC50

Species: Oncorhynchus mykiss (rainbow trout)

Dose: 3.1 mg/l Exposure time: 96 h

Acute and prolonged toxicity for aquatic invertebrates:

EC50

Species: Daphnia magna (Water flea)

Dose: 2.3 mg/i Exposure time: 96 h

Naphthalene

91-20-3

Toxicity to algae:

EC50 Species: Dose: 33 mg/l Exposure time: 24 h

Pentane

109-66-0

Acute and prolonged toxicity for aquatic invertebrates:

EC50

Species: Daphnia magna (Water flea)

Dose: 9.74 mg/l Exposure time: 48 h

Cyclohexane

110-82-7

Acute and prolonged toxicity for aquatic invertebrates:

EC50

Species: Daphnia magna (Water flea)

Dose: 3.78 mg/l Exposure time: 48 h

# SAFETY DATA SHEET

# GASOLINE, UNLEADED ASSESSED

142-82-5 Toxicity to fish: Heptane [and isomers]

LC50

Species: Carassius auratus (goldfish)

Dose: 4 mg/l Exposure time: 24 h

Acute and prolonged toxicity for aquatic invertebrates:

Species: Daphnia magna (Water flea)

Dose: 1.5 mg/l Exposure time: 48 h

N-hexane 110-54-3 Toxicity to fish:

LC50

Species: Pimephales prometas (fathead minnow)

Dose: 2,5 mg/l Exposure time: 96 h

Acute and prolonged toxicity for aquatic invertebrates:

EC50

Species: Daphnia magna (Water flea)

Dose: 2.1 mg/l Exposure time: 48 h

# SECTION 13 DISPOSAL CONSIDERATIONS

Dispose of container and unused contents in accordance with federal, state and Disposal

local requirements.

# SECTION 14 TRANSPORT INFORMATION

**CFR** 

Proper shipping name : Petrol UN-No. 1203 3 Class : 11

Packing group

TDG

Proper shipping name : Gasoline UN-No. : UN1203

: 3 Class Packing group : 11

IATA Cargo Transport

UN UN-No. : UN1203 Description of the goods Gasoline

Class 3 Packaging group : 11 **ICAO-Labels** : 3 Packing instruction (cargo : 364

aircraft)

Packing instruction (cargo

: Y341

aircraft)

IATA Passenger Transport

UN UN-No. UN1203 Description of the goods Gasoline

Class 3

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Packaging group	: 41	
ICAO-Labels	: 3	
Packing instruction (passenger aircraft)	: 353	- 100 Mai 1-11111

IMDG-Code

UN-No. UN 1203 Description of the goods Gasoline Class Packaging group : 11 **IMDG-Labels** : 3 : F-E S-E EmS Number Marine pollutant : No

# SECTION 15. REGULATORY INFORMATION

OSHA Hazards	: Flammable liquid
VOI // 1 1020:00	. I faith habte flagro

Packing instruction

(passenger aircraft)

Highly toxic by ingestion Moderate skin irritant Severe eye irritant Carcinogen

: Y341

TSCA Status : On TSCA Inventory

DSL Status : . All components are on the Canadian DSL list,

SARA 311/312 Hazards : Fire Hazard

> Acute Health Hazard Chronic Health Hazard

## CERCLA SECTION 103 and SARA SECTION 304 (RELEASE TO THE ENVIROMENT)

The CERCLA definition of hazardous substances contains a "petroleum exclusion" clause which exempts crude oil. Fractions of crude oil, and products (both finished and intermediate) from the crude oil refining process and any indigenous components of such from the CERCLA Section 103 reporting requirements. However, other federal reporting requirements, including SARA Section 304, as well as

the Clean Water Act may still apply.

California Prop. 65 WARNING! This product contains a chemical known to the State of California to

cause birth defects or other reproductive harm.

Toluene 108-88-3

71-43-2 Benzene

# SECTION 16: OTHER INFORMATION

## Further information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

# GASOTENE UNLEADER

Revision Date

: 08/09/2012

6, 8, 10, 12, 14, 16, 64, 68, 91, 112, 306, 1092, 1106, 1500, 1570, 1571, 1651, 1652, 1654, 1700, 1701, 1702, 1710, 1711, 1714, 1726, 1729, 1730, 1732, 1733, 1826, 1848, 1880, 1950

1



# Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Revision date: 04/21/2017

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form : Mixture

Product name : KleenDEF Diesel Exhaust Fluid

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Solution for NOx reduction in SCR systems

# 1.3. Details of the supplier of the safety data sheet

Old World Industries, LLC 4065 Commercial Ave. Northbrook, IL 60062 - USA T (847) 559-2000 www.oldworldind.com

## 1.4. Emergency telephone number

Emergency number : (800) 424-9300; (703) 527 3887 (International)

Chemtrec

## **SECTION 2: Hazards identification**

#### 2.1. Classification of the substance or mixture

## **GHS-US** classification

Not classified

# 2.2. Label elements

# **GHS-US** labelling

Signal word (GHS-US) : None
Hazard statements (GHS-US) : None
Precautionary statements (GHS-US) : None

## 2.3. Other hazards

No additional information available

## 2.4. Unknown acute toxicity (GHS US)

No data available

# SECTION 3: Composition/information on ingredients

## 3.1. Substances

Not applicable

## 3.2. Mixtures

Name	Product identifier	% by wt	GHS-US classification
water	(CAS-No.) 7732-18-5	67.5	Not classified
urea	(CAS-No.) 57-13-6	32.5	Not classified

Full text of hazard classes and H-statements : see section 16

# **SECTION 4: First aid measures**

4.1.	Descri	ntion of	first aid	measures

First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

First-aid measures after inhalation : Assure fresh air breathing. Allow the victim to rest.

First-aid measures after skin contact : Remove affected clothing and wash all exposed skin area with mild soap and water, followed

by warm water rinse.

First-aid measures after eye contact : Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness

persists.

First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

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#### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects : Not expected to present a significant hazard under anticipated conditions of normal use.

## 4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

## **SECTION 5: Fire-fighting measures**

## 5.1. Extinguishing media

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Sand.

Unsuitable extinguishing media : Do not use a heavy water stream.

## 5.2. Special hazards arising from the substance or mixture

No additional information available

## 5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any

chemical fire. Prevent fire fighting water from entering the environment.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

## **SECTION 6: Accidental release measures**

## 6.1. Personal precautions, protective equipment and emergency procedures

General measures : The EPA has no established reportable quantity for spills for this material, secondary

containment is not specified.

## 6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

## 6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.

Emergency procedures : Ventilate area.

# 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

# 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect

spillage. Store away from other materials. For minor spillages wash down with excess of water.

Mop up small spills.

# 6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

## **SECTION 7: Handling and storage**

# 7.1. Precautions for safe handling

Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation

smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep only in the original container in a cool, well ventilated place away from : Direct sunlight,

Heat sources. Keep container closed when not in use.

Incompatible products : Strong bases. Strong acids.

Incompatible materials : Sources of ignition. Direct sunlight.

#### 7.3. Specific end use(s)

No additional information available

# **SECTION 8: Exposure controls/personal protection**

## 8.1. Control parameters

No additional information available

#### 8.2. Appropriate engineering controls

No additional information available

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## 8.3. Individual protection measures/Personal protective equipment

## Personal protective equipment:

Avoid all unnecessary exposure. Gloves. Protective goggles.

#### Hand protection:

Wear protective gloves

## Eye protection:

Chemical goggles or safety glasses

## Respiratory protection:

Wear appropriate mask





#### Other information:

Do not eat, drink or smoke during use.

# **SECTION 9: Physical and chemical properties**

## 9.1. Information on basic physical and chemical properties

Physical state : Liquid
Color : Colorless

Odor : characteristic ammonia odor

Odor threshold : No data available

pH : 9 - 10 Relative evaporation rate (butylacetate=1) : < 1

Freezing point : -11 °C (12 °F) Boiling point : > 100 °C (212 °F) Flash point : No data available Auto-ignition temperature : No data available Decomposition temperature : No data available Flammability (solid, gas) : No data available Vapor pressure : Not Applicable : 0.6 H2O, >1 Relative vapor density at 20 °C

Solubility : Soluble in water.

: 1.09

Water: 100 %

Log Pow : No data available

Log Kow : No data available

Viscosity, kinematic : No data available

Viscosity, dynamic : No data available

Explosive properties : No data available

Oxidizing properties : No data available

Explosive limits : No data available

# 9.2. Other information

No additional information available

# **SECTION 10: Stability and reactivity**

## 10.1. Reactivity

Specific Gravity

No additional information available

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# 10.2. Chemical stability

Stable under normal conditions.

## 10.3. Possibility of hazardous reactions

Not established.

#### 10.4. Conditions to avoid

No additional information available

## 10.5. Incompatible materials

Strong acids. Strong bases. oxidizing agents (peroxides, chromates, dichromates).

#### 10.6. Hazardous decomposition products

Carbon monoxide. Carbon dioxide. Fume.

# **SECTION 11: Toxicological information**

## 11.1. Information on toxicological effects

Acute toxicity : Not classified

urea (57-13-6)	
LD50 oral rat	8,471.00 mg/kg (Rat; OECD 401: Acute Oral Toxicity; Literature study; 14300 mg/kg bodyweight; Rat; Experimental value)
LD50 dermal rat	> 3,200.00 mg/kg (Rat; Literature study)
LD50 dermal rabbit	> 21,000.00 mg/kg (Rabbit; Literature study)
ATE US (oral)	8,471.00 mg/kg bodyweight

Skin corrosion/irritation : Not classified

pH: 9 - 10

Serious eye damage/irritation : Not classified

pH: 9 - 10

Respiratory or skin sensitisation : Not classified Germ cell mutagenicity : Not classified Carcinogenicity : Not classified

Reproductive toxicity : Not classified Specific target organ toxicity (single exposure) : Not classified

Specific target organ toxicity (repeated

exposure)

: Not classified

Aspiration hazard : Not classified

Potential adverse human health effects and

symptoms

: Based on available data, the classification criteria are not met.

# **SECTION 12: Ecological information**

## 12.1. Toxicity

urea (57-13-6)	
LC50 fish 1	> 6,810.00 mg/l (LC50; 96 h; Leuciscus idus; Static system)
EC50 Daphnia 1	> 10,000.00 mg/l (EC50; 48 h; Daphnia magna)
Threshold limit algae 1	> 10000 mg/l (EC0; 168 h; Scenedesmus quadricauda; Static system; Fresh water)

# 12.2. Persistence and degradability

urea (57-13-6)	
Persistence and degradability	Inherently biodegradable. Hydrolysis in water. Highly mobile in soil.
ThOD	0.27 g O <sub>2</sub> /g substance

## 12.3. Bioaccumulative potential

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urea (57-13-6)		
BCF fish 1	1.00 (BCF; 72 h; Brachydanio rerio)	
BCF other aquatic organisms 1	11,700.00 (BCF)	
Log Pow	< -1.73 (Experimental value; EU Method A.8: Partition Coefficient)	
Bioaccumulative potential	Bioaccumulation: not applicable.	

## 12.4. Mobility in soil

urea (57-13-6)	
Mobility in soil Not applicable	
Log Koc	Koc,0.037-0.064; Experimental value

## 12.5. Other adverse effects

Effect on ozone layer : No additional information available

Effect on global warming : No known effects from this product.

No additional information available

Other information : Avoid release to the environment.

# **SECTION 13: Disposal considerations**

## 13.1. Waste treatment methods

Product/Packaging disposal recommendations : As a non-hazardous liquid waste, it should be solidified with stabilizing agents such as sand, fly

ash, or clay absorbent, so that no free liquid remains before disposal to an industrial waste

landfill.

Ecology - waste materials : Avoid release to the environment.

## **SECTION 14: Transport information**

# **Department of Transportation (DOT)**

In accordance with DOT

Not regulated

# **Transportation of Dangerous Goods**

## Refer to current TDG Canada for further Canadian regulations

## **ADR**

Not regulated

# Transport by sea

Not regulated

## Air transport

Not regulated

# **SECTION 15: Regulatory information**

# 15.1. US Federal regulations

KleenDEF Diesel Exhaust Fluid	
EPA TSCA Regulatory Flag	Toxic Substances Control Act (TSCA): The intentional ingredients of this product are listed
CERCLA RQ	None. This material is not classified as hazardous under U.S. EPA regulations.
SARA Section 302 Threshold Planning Quantity (TPQ)	No extremely hazardous substances are in this product.
SARA Section 311/312 Hazard Classes	Urea. No hazards resulting from the material as supplied.
urea (57-13-6)	

urea (57-13-6)		
EPA TSCA Regulatory Flag	Toxic Substances Control Act (TSCA): The intentional ingredients of this product are listed	
SARA Section 311/312 Hazard Classes Immediate (acute) health hazard		
water (7732-18-5)		
Listed on the United States TSCA (Toxic Substances Control Act) inventory		

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## 15.2. International regulations

## **CANADA**

KleenDEF Diesel Exhaust Fluid		
WHMIS Classification	This SDS has been prepared according to the criteria of the Hazardous Products Regulations (HPR) (WHMIS 2015) and the SDS contains all of the information required by the HPR. Applicable GHS information is listed in section 2.2 of this SDS.	

#### **EU-Regulations**

No additional information available

## **National regulations**

# KleenDEF Diesel Exhaust Fluid

DSL (Canada): The intentional ingredients of this product are listed

## urea (57-13-6)

DSL (Canada): The intentional ingredients of this product are listed EINECS (Europe): The intentional ingredients of this product are listed

#### 15.3. US State regulations

California Proposition 65 - This product does not contain any substance(s) known to the state of California to cause cancer, developmental toxicity and/or reproductive toxicity

# **SECTION 16: Other information**

Revision date : 04/21/2017

NFPA health hazard : 1 - Materials that, under emergency conditions, can cause significant

irritation.

NFPA fire hazard : 0 - Materials that will not burn under typical dire conditions, including

intrinsically noncombustible materials such as concrete, stone, and

sand.

NFPA reactivity : 0 - Material that in themselves are normally stable, even under fire

conditions.

Hazard Rating

Health : 1 Slight Hazard - Irritation or minor reversible injury possible

Flammability : 0 Minimal Hazard - Materials that will not burn

Physical : 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT

react with water, polymerize, decompose, condense, or self-react. Non-Explosives.

Personal protection B - Safety glasses, Gloves

# SDS GHS US (GHS HazCom 2012) OWI

Old World Industries, LLC makes no warranty, representation or guarantee as to the accuracy, sufficiency or completeness of the material set forth herein. It is the user's responsibility to determine the safety, toxicity and suitability of his own use, handling and disposal of this product. Since actual use by others is beyond our control, no warranty, expressed or implied, is made by Old World Industries, LLC as the effects of such use, the results to be obtained or the safety and toxicity of this product referred to herein. The data in this SDS relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process.

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SDS Date: September, 2015

LBC (Lead Barrier Compound) No. 5800, No. 5801 White, 5800 Antique Linen (or 5899

Custom tint)

: Lead Encapsulant

Manufactured For:
Fiberlock Technologies, Inc.
150 Dascomb Road
Andover, MA 01810

P: 800-342-3755 F: 978-475-6205

Emergency Telephone Numbers: CHEM TEL: (U.S.): 1-800-255-3924 (Outside the U.S.): 813-248-0585

Poison Control Center (Medical): 800-222-1222

# Signal Word:





Hazard Statements:
Harmful if inhaled.
Causes serious eye irritation.
May cause an allergic skin reaction.
Suspected of causing cancer.

This product is considered hazardous by The 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)
Acute Toxicity-Inhalation (Vapors) Category 4

Acute Toxicity-Inhalation (Dust-mists) Category 2 Serious eye damage/eye irritation – Category 2 Skin sensitization – Category 1

Carcinogenicity – Category 2

: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protection (eye protection, gloves) during application. When grinding/sanding dry films, wear respiratory protection.

If on skin, wash with plenty of soap and water. If in eyes, rinse cautiously for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. If inhaled, remove victim to fresh air. If exposed or concerned, get medical advice.

Keep closures tight and containers upright to prevent leakage. KEEP FROM FREEZING. Product is non-combustible.

The coating and any contaminated diking material should be thoroughly air dried and collected into drums. The drums should be sealed and labeled and land-filled or incinerated according to local, regional and national regulations.

# Not applicable

Toxic to aquatic life with long lasting effects. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons.

Chemical Name	CAS No.	Weight, %*
Titanium dioxide	13463-67-7	10-30
Calcium carbonate	1317-65-3	10-30
Propylene glycol	57-55-6	3-7
Chlorothalonil	1897-45-6	0.1-1
Methylchloroisothiazolinone	26172-55-4	0.1-1
Zinc oxide	1314-13-2	1-4

Show this safety data sheet to the doctor in attendance. Immediate medical attention is required.

If symptoms persist, call a physician. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. Do not rub affected area.

Wash skin with soap and water. In the case of skin irritation or allergic reactions see a physician. May cause an allergic skin reaction.

Remove to fresh air. If symptoms persist, call a physician. If breathing has stopped, give artificial respiration. Get medical attention immediately. If not breathing, give artificial respiration. Do not breathe dust.

mouth to an unconscious person. Get medical attention.
Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. Wear personal protective clothing (see section 8). Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Avoid breathing vapors or mists.
Burning sensation. Coughing and/or wheezing. Difficulty in breathing. Itching. Rashes. Hives.
Treat symptomatically. May cause sensitization of susceptible persons.
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
CAUTION: Use of water spray when fighting fire may be inefficient.
Product is/or contains a sensitizer. May cause sensitization by skin contact.
Sensitizer: Liquid Toxic: Liquid
Carbon oxides
Sensitivity to mechanical impact No. Sensitivity to static impact No.
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.
Avoid contact with skin, eyes or clothing. Use personal protective equipment as

Do NOT induce vomiting. Rinse mouth immediately and drink plenty of water. Never give anything by

required. Ensure adequate ventilation. Avoid breathing vapors or mists. Avoid generation of dust.

Refer to protective measures listed in Sections 7 & 8

Refer to protective measures listed in Sections 7 & 8.

Prevent further leakage or spillage if safe to do so.

Immediately place absorbent material in a sealed water-filled metal container to avoid spontaneous combustion of absorbent material contaminated with this product. Pick up and transfer to properly labeled containers.

Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Avoid breathing vapors or mists. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Take off contaminated clothing and wash before reuse. Keep away from contact with clothing and other combustible materials to avoid fire.

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children.

None known based on information supplied.

Chemical Name Titanium dioxide 13463-67-7	ACGIH TLV TWA: 10 mg/m3	OSHA PEL TWA: 15 mg/m³ total dust (vacated) TWA: 10 mg/m3 total dust	NIOSH IDLH IDLH: 5000 mg/m3
Calcium carbonate 1317-65-3		TWA: 15mg/m <sup>3</sup> TWA: 5 mg/m <sup>3</sup> (vacated) TWA: 15 mg/m <sup>3</sup> (vacated) TWA: 5 mg/m <sup>3</sup>	TWA: 5 mg/m³ respirable dust TWA: 10 mg/m³ total dust
Zinc oxide 1314-13-2	TWA: 5 mg/m <sup>3</sup>	TWA: 5 STEL 100 CSI; 25 mg/m <sup>3</sup>	No data available

ACGIH TLV: American Conference of Governmental Industrial Hygienists – Threshold Limit Value OSHA PEL: Occupational Safety and Health Administration – Permissible Exposure Limits NIOSH IDLH Immediately Dangerous to Life or Health

Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992). See section 15 for national exposure control parameters

# Showers / Eyewash Stations / Ventilation Systems

If splashes are likely to occur, wear safety glasses with side shields (or goggles). None required for consumer use.

Wear protective gloves and protective clothing

No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

Handle in accordance with good industrial hygiene and safety practice. Take off contaminated clothing and wash before reuse. Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Wash hands before breaks and immediately after handling the product.

Viscous liquid White No information available Very Slight No information available

8.5	None known
No data available	None known
No data available	None known
Miscible in water	None known
No data available	
No data available	
No data available	
No data available	
No data available	
	No data available

No data available
Excessive heat
Stable under recommended storage conditions
None known based on information supplied
None under normal processing
Carbon oxides
Hazardous polymerization does not occur
Product does not present an acute toxicity hazard based on known or supplied information
Specific test data for the substance or mixture is not available. May cause irritation of respiratory tract. Harmful by inhalation (based on components).
Specific test data for the substance or mixture is not available. Expected to be an irritant based on components. May cause redness, itching, and pain. May cause temporary eye irritation.
Specific test data for the substance or mixture is not available. May cause irritation. Prolonged contact may cause redness and irritation.

Specific test data for the substance or mixture is not available. Ingestion may cause irritation to mucous membranes. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

<b>Chemical Name</b> Titanium dioxide 13463-67-7	<b>Oral LD50</b> > 10000 mg/kg (Rat)	Dermal LD50	Inhalation LC50
Propylene Glycol 57-55-6	= 20000 mg/kg (Rat)	= 20800 mg/kg (Rabbit)	

Chlorothalonil > 10 g/kg (Rabbit) = 310 mg/m3 (Rat) 1 h 1897-45-6

Methylchloroisothiazolinone = 481 mg/kg (Rat) > 1008 mg/kg (Rat) = 1.23 mg/L (Rat) 4 h

26172-55-4

Zinc oxide – 1314-13-2 7950 mg/kg (Mouse) No data available No data available

May cause redness and tearing of the eyes, coughing and/or wheezing, itching, rashes and hives.

May cause sensitization of susceptible persons. May cause sensitization by skin

contact.

No information available

The table below indicates whether each agency has listed any ingredient as a carcinogen

Chemical Name	ACGIH	IARC	NTP	OSHA
Titanium dioxide		Group 2B		X
13463-67-7				
Chlorothalonil		Group 2B		X
1897-45-6		·		

A2 - Suspected Human Carcinogen

Group 2B - Possibly Carcinogenic to Humans

X-Present

No information available

Titanium dioxide has been classified by the International Agency for Research on Cancer (IARC) as possibly carcinogenic to humans (Group 2B) by inhalation. Contains a known or suspected carcinogen.

Eyes, respiratory system, skin, gastrointestinal tract (GI) & lungs.

No information available

The following values are calculated based on chapter 3.1 of the GHS document

8,711.00 mg/kg 2.41 mg/l

21,608.00 mg/kg (ATE) 16.00 ATEmix

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# Toxic to aquatic life with long lasting effects

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Propylene Glycol 57-55-6	96h EC50: = mg/L (Pseudokirchneriella Subcapitata)	96h LC50: = 51600 mg/L (Oncorhynchus mykiss) 96h LC50: 41-47 mL/L (Oncorhynchus mykiss) 96h LC50: 51400 mg/L (Pimephales promelas) 96h LC50: = 710 mg/L (Pimephales promelas)		24h EC50: > 10000 mg/L 48h EC50: > 1000 mg/L
Chlorothalonil 1897-45-6	72h EC50: = 0.57 mg/L (Desmodesmus Subspicatus) 72h EC50: = 0.0068 mg/L (Pseudokirchneriella Subcapitata)	96h LC50: = 0.012 mg/L (Oncorhynchus mykiss) 96h LC50: 0.0076 mg/L (Oncorhynchus mykiss) 96h LC50: 0.0221-0.032 mg/L (Lepomis macrochirus) 96h LC50: 0.045-0.057 mg/L (Lepomis macrochirus)		48h EC50: 0.0342-0.143 mg/L
Methylchloroisothiazolinone 26172-55-4	72h EC50: 0.11-0.16mg/L (Pseudokirchneriella Subcapitata) 96h EC50: 0.03-0.13 mg/L (Pseudokirchneriella subcapitata) 120h EC50: = 0.31 mg/L (Anabaena Flos-aquae)	96h LC50: = 1.6 mg/L (Oncorhynchus mykiss)	EC50 = 5.7 mg/L 16h	48 <sup>th</sup> EC50: = 4.71 mg/L 48h EC50: 0.12-0.3 mg/L 48h EC50: 0.71-0.99 mg/L
No. 1 of a constitue of the last				

No information available

Chemical NameLog PowChlorothalonil2.91897-45-64Methylchloroisothiazolinone-0.71-0.7526172-55-4

No information available

This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.

331

<u>DOT</u> Not Regulated Proper Shipping Name Non-Regulated

Hazard Class N/A

**TDG** 

Un-No. UN3082

Proper Shipping Name Environmentally Hazardous Substance, Liquid, N.O.S.

Hazard Class 9 Packing Group III

Description UN3082, Environmentally Hazardous Substance, Liquid, N.O.S.

(Chlorothalonil), 9, III, Marine Pollutant

<u>IATA</u>

Un-No. 3082

Proper Shipping Name Environmentally Hazardous Substance, Liquid, N.O.S.

Hazard Class 9 Packing Group III

Description UN3082, Environmentally Hazardous Substance, Liquid, N.O.S.

(Chlorothalonil), 9, III

IMDG/IMO

Un-No. 3082

Proper Shipping Name Environmentally Hazardous Substance, Liquid, N.O.S.

Hazard Class 9
Packing Group III

EmS No. F-A, S-F

Marine Pollutant Description Product is a marine pollutant according to the criteria set by

IMDG/IMO

UN3082, Environmentally Hazardous Substance, Liquid, N.O.S.

(Chlorothalonil), 9, III, Marine Pollutant

TSCA Complies

DSL All components are listed either on the DSL or NDSL

<sup>-</sup> United States Toxic Substances Control Act Section 8(b) Inventory

<sup>-</sup> Canadian Domestic Substances List/Non-Domestic Substances List

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

Chemical Name Chlorothalonil	<b>CAS No.</b> 1897-45-6		<b>Weight - %</b> 0.1-1	SARA 313 – Threshold Values % 0.1
Acute Health Hazard Chronic Health Hazard Fire Hazard Sudden release of pressur Reactive Hazard	re hazard	Yes Yes No No No		

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

This product contains the following Proposition 65 chemicals:

# Chemical Name

Titanium dioxide – 13463-67-7 Chlorothalonil – 1897-45-6

# California Proposition 65

Carcinogen Carcinogen

Chemical Name	New Jersey	Massachusetts l	Pennsylvania	Rhode Island	Illinois
Titanium dioxide – 13463-67-4	Χ	X	X		
Calcium carbonate – 1317-65-3	Χ	X	Χ		
Propylene Glycol – 57-55-6	Χ		Χ		
Chlorothalonil – 1897-45-6	Χ	X	Χ	Χ	
Zinc oxide – 1314-13-2	Χ	Χ	Χ		

## Canada

WHMIS Hazard Class D2A – Very toxic materials D2B – Toxic materials



NFPA Health Hazards 2 Flammability 0 Instability 0 Physical and Chemical Hazards

Personal Protection

HMIS Health Hazards 2\* Flammability 0 Physical Hazard 0 X

Chromic Hazard Star Legend \* = Chronic Health Hazard

If you scrape, sand or remove old paint, you may release lead dust. LEAD IS TOXIC. EXPOSURE TO LEAD DUST CAN CAUSE SERIOUS ILLNESS, SUCH AS BRAIN DAMAGE, ESPECIALLY IN CHILDREN. PREGNANT WOMEN SHOULD ALSO AVOID EXPOSURE. Wear NIOSH-approved respirator to control lead exposure. Clean up carefully with a HEPA vacuum and wet mop. Before you start, find out how to protect yourself and your family by contacting the National Lead Information Hotline at 1-800-424-LEAD (5323) or log on to: <a href="https://www.epa.gov/lead">www.epa.gov/lead</a>

SDS Date: August, 2016

Lead Shield No. 5470 Clear & No. 5475 Blue
: Coatings for Post-Removal Lockdown

Manufactured For: Fiberlock Technologies, Inc. 150 Dascomb Road Andover, MA 01810

P: 800-342-3755 F: 978-475-6205

Emergency Telephone Numbers: CHEM TEL: (U.S.): 1-800-255-3924 (Outside the U.S.): 813-248-0585

# Signal Word:



Hazard Statements: Harmful if inhaled. Can cause mild skin irritation. Can cause eye irritation.

This product is considered hazardous by The 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Toxicity-Inhalation (Vapors) Category 4

Toxicity-Inhalation (Dust-mists) Category 4

Eye irritation – Category 2

Skin irritation – Category 2

: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protection (eye protection, gloves) during application. When grinding/sanding dry films, wear respiratory protection.

If on skin, wash with plenty of soap and water. If in eyes, rinse cautiously for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. If inhaled, remove victim to fresh air. If exposed or concerned, get medical advice.

Keep closures tight and containers upright to prevent leakage. KEEP FROM FREEZING. Product is non-combustible.

The coating and any contaminated diking material should be thoroughly air dried and collected into drums. The drums should be sealed and labeled and land-filled or incinerated according to local, regional and national regulations.

# Not applicable Repeated or prolonged skin contact may cause allergic reactions with susceptible

Chemical Name	CAS No.	Weight, %*
Chlorothalonil	1897-45-6	0.1-1
Bicyclic oxazolidine	056709-13-8	0.1-1
Ethylene glycol	107-21-1	1-5

persons.

Show this safety data sheet to the doctor in attendance. Immediate medical attention is required.

If symptoms persist, call a physician. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. Do not rub affected area.

Wash skin with soap and water. In the case of skin irritation or allergic reactions see a physician. May cause an allergic skin reaction.

Remove to fresh air. If symptoms persist, call a physician. If breathing has stopped, give artificial respiration. Get medical attention immediately. If not breathing, give artificial respiration. Do not breathe dust.

Do NOT induce vomiting. Rinse mouth immediately and drink plenty of water. Never give anything by mouth to an unconscious person. Get medical attention.

Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. Wear personal protective clothing (see section 8). Ensure that medical personnel are aware of the material(s)

involved, take precautions to protect themselves and prevent spread of contamination. Avoid breathing vapors or mists.
No data available
Treat symptomatically. May cause sensitization of susceptible persons.
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
CAUTION: Use of water spray when fighting fire may be inefficient.
No data available
Carbon oxides
Sensitivity to mechanical impact No. Sensitivity to static impact No.
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.
Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. Ensure adequate ventilation. Avoid breathing vapors or mists. Avoid generation of dust.
Refer to protective measures listed in Sections 7 & 8.
Refer to protective measures listed in Sections 7 & 8.

Prevent further leakage or spillage if safe to do so

		bustion of absorbent material consontainers.	
skin, eyes or cloth mists. Ensure add equipment. Take	iing. Do not eat, dr equate ventilation.	th good industrial hygiene and safe ink or smoke when using this prod In case of insufficient ventilation, clothing and wash before reuse. Kerials to avoid fire.	duct. Avoid breathing vapors or wear suitable respiratory
Keep co of children.	•	sed in a dry, cool and well-ventilate	ted place. Keep out of the reach
Chemical Name Bicyclic oxazolidine 056709-13-8	—— ACGIH TLV	<b>OSHA PEL</b> ************** Not Established ************************************	NIOSH IDLH
Ethylene glycol 107-21-1	TWA: 50 ppm	TWA: 50 ppm (STEL 100 mg/m³	No data available
		ernmental Industrial Hygienists – Thresho sible Exposure Limits NIOSH IDLH Imme	old Limit Value OSHA PEL: Occupational diately Dangerous to Life or Health
OSHA, 965 F.2d 9		ted limits revoked by the Court of $\rho$ 2). See section 15 for national exp	
	Showers /	Eyewash Stations / Ventilation Sy	stems
None required for		re likely to occur, wear safety glas	ses with side shields (or goggles).
	Wear n	rotective gloves and protective clo	othina

Page **4** of **9** 

No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

Handle in accordance with good industrial hygiene and safety practice. Take off contaminated clothing and wash before reuse. Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Wash hands before breaks and immediately after handling the product.

Very Slight Liquid Clear or blue No information available No information available Hq 8.5 None known Melting/freezing point No data available None known Boiling point/boiling range No data available None known Flash Point No data available None known Evaporation rate No data available None known Flammability (solid, gas) No data available None known Flammability Limit in Air Upper flammability limit No data available None known Lower flammability limit No data available None known Vapor pressure No data available None known Vapor density No data available None known Specific Water Solubility Miscible in water None known Solubility in other solvents No data available None known Partition coefficient: n-octanol/water No data available None known Autoignition temperature No data available None known Gravity No data available None known Decomposition temperature No data available None known Kinematic viscosity No data available None known Dynamic viscosity No data available None known Explosive properties No data available Oxidizing properties No data available Softening Point No data available VOC Content (%) No data available Particle size No data available Particle size distribution No data available No data available Excessive heat

Stable under recommended storage conditions

None known based on information supplied	
None under normal processing	
Carbon oxides	
Hazardous polymerization does not occur	

Product does not present an acute toxicity hazard based on known or supplied information.

Specific test data for the substance or mixture is not available. May cause irritation of respiratory tract. Harmful by inhalation (based on components).

Specific test data for the substance or mixture is not available. Expected to be an irritant based on components. May cause redness, itching, and pain. May cause temporary eye irritation.

Specific test data for the substance or mixture is not available. May cause irritation. Prolonged contact may cause redness and irritation.

Specific test data for the substance or mixture is not available. Ingestion may cause irritation to mucous membranes. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Bicyclic oxazolidine 056709-13-8	= 2974 mg/kg	=2000 mg/kg (Rabbit)	<1.8-4.0 mg/L (Rat) 4 hr
Chlorothalonil 1897-45-6	No data available	>10 g/kg (Rabbit)	=310 mg/m <sup>3</sup> (Rat) 1 hr
Ethylene glycol 107-21-1	= 4700 mg/kg (Rat)	No data available	<200 mg/m <sup>3</sup> (Rat) 4 hr

May cause redness and tearing of the eyes, coughing and/or wheezing, itching, rashes and hives.

May cause sensitization of susceptible persons. May cause sensitization by skin contact.

No information available

Yes

Chemical NameACGIHIARCNTPOSHAChlorothalonilGroup 2BX

No information available

No data available

Eyes, respiratory system, skin, gastrointestinal tract (GI) & lungs.

No information available

# No data available

Ethylene Glycol 107-21-1 Chlorothalonil 1897-45-6	(Chlorella pyrenoidosa) 180,000 mg/L toxic Toxicity Threshold (cell multiplication Inhibition test): Algae (Microcystis acruginosa), 2000 mg/L; Green algae 72h EC50: = 0.57 mg/L (Desmodesmus	LC50: = 41000 mg/L 96h [Fish (Trout)] 96h [Fish (bluegill fish)] 34250 mg/L 72h [Fish (Goldfish)] 96h LC50: = 0.012 mg/L (Oncorhynchus mykiss) 96h	No data available  No data available	46300 mg/L 48h (water flea)  No data available
	(Desmodesmus		No data available	No data available
	Subspicatus) 72h EC50: = 0.0068 mg/L (Pseudokirchneriella Subcapitata)	LC50: 0.0076 mg/L (Oncorhynchus mykiss) 96h LC50: 0.0221-0.032 mg/L (Lepomis macrochirus) 96h LC50: 0.045-0.057 mg/L (Lepomis macrochirus)		
	No info	ormation available		
1	No data available			

This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.

DOT

Not Regulated Non-Regulated

Hazard Class

**Proper Shipping Name** 

N/A

**TDG** 

No data available

IATA

No data available

IMDG/IMO

No data available

TSCA Complies

DSL All components are listed either on the DSL or NDSL

- United States Toxic Substances Control Act Section 8(b) Inventory

- Canadian Domestic Substances List/Non-Domestic Substances List

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

Chemical Name CAS No. Weight - % SARA 313 – Threshold Values %

Chlorothalonil 1897-45-6 0.1-1 0.1

Acute Health Hazard

Chronic Health Hazard

No
Fire Hazard

Sudden release of pressure hazard

No
Reactive Hazard

No

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

Chemical Name

California Proposition 65

Ethylene glycol – 107-21-1 Chlorothalonil – 1897-45-6 Reproductive toxicant

Carcinogen

Chemical Name	New Jersey	MassachusettsF	Pennsylvania	Rhode Island	Illinois
Ethylene glycol – 107-21-1	Χ	Χ	X	X	
Oblanath alam!! 4007 45 C	V	V	V	V	

Chlorothalonil – 1897-45-6 X X X X X Bicyclic oxazolidine – 056709-13-8 X X X X

None listed



NFPA Health Hazards 1 Flammability 0 Instability 0 Physical & Chemical Hazards -

HMIS Health Hazards 1 Flammability 0 Physical Hazard 0 Personal Protection X

If you scrape, sand or remove old paint, you may release lead dust. LEAD IS TOXIC. EXPOSURE TO LEAD DUST CAN CAUSE SERIOUS ILLNESS, SUCH AS BRAIN DAMAGE, ESPECIALLY IN CHILDREN. PREGNANT WOMEN SHOULD ALSO AVOID EXPOSURE. Wear NIOSH-approved respirator to control lead exposure. Clean up carefully with a HEPA vacuum and wet mop. Before you start, find out how to protect yourself and your family by contacting the National Lead Information Hotline at 1-800-424-LEAD (5323) or log on to: www.epa.gov/lead

# **SPI Supplies Division**

Structure Probe, Inc.

206 Garfield Ave., West Chester, PA 19380-4512 USA **Phone:** 1-(610)-436-5400 **Fax:** 1-(610)-436-5755

sales@2spi.com

http://www.2spi.com

Manufacturer's CAGE: 1P573

# **Safety Data Sheet**

Date Effective: January 30, 2019

SPI Catalog # 04982-AB

SPI-Tac Liquid Adhesive Mountant

# Section 1.1: Identification

Product or Trade Name ...... SPI-Tac Liquid Adhesive Mountant

CAS #'s ...... 67-64-1; 141-78-6; 108-05-4; proprietary resins

Chemical Formula..... mixture

## Section 1.2: Relevant Uses/Restrictions

Liquid adhesive mountant.

This material is not being offered for clinical or diagnostic applications, agricultural uses or for human or animal consumption.

# Section 1.3: Supplier of the Safety Data Sheet

SPI Supplies Division Structure Probe, Inc.

206 Garfield Ave., West Chester, PA 19380-4512 USA **Phone:** 1-(610)-436-5400 **Fax:** 1-(610)-436-5755

sales@2spi.com http://www.2spi.com

Manufacturer's CAGE: 1P573

# Section 1.4: Emergency telephone number

**Emergencies** 

Contacting CHEMTREC:

24 Hour Emergency Use Only #'s... Worldwide phone: 1-(703)-741-5970

Toll-free phone: 1-(800)-424-9300 USA + Canada only

# Section 2: Hazard Identification

### 2.1 Classification of the substance

### GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Flammable liquid (category 2) Skin irritation (category 2)

#### 2.2 Label elements

### **Pictogram**





Signal Word: Danger

#### Hazard statements:

- H225 Highly flammable liquid and vapor.
- H315 Causes skin irritation
- H319 Causes serious eye irritation.
- H336 May cause drowsiness or dizziness.

### **Precautionary statements:**

- P210 Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking.
- P233 Keep container tightly closed.
- P273 Avoid release to the environment.
- P241 Use explosion-proof electrical/ ventilating/ light equipment.
- P242 Use only non-sparking tools.
- P243 Take precautionary measures against static discharge.
- P260 Do not breathe dust/ fume/ gas/ mist/ vapors/ spray.
- P264 Wash thoroughly after handling.
- P280 Wear protective gloves, protective clothing/ eye protection/ face protection.
- P361 Remove/ Take off immediately all contaminated clothing.
- P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P303 + P361 + P 353 IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water / shower.
- P312 Call a POISON CENTER/ doctor if you feel unwell.
- P332 + P313 If skin irritation occurs: Get medical advice/ attention.
- P337 + P313 If eye irritation persists get medical advice/ attention.
- P370 + P378 In case of fire: Use foam, dry chemical or carbon dioxide to extinguish.
- P403 + P325 Store in a well-ventilated place. Keep cool.
- P405 Store locked up.
- P501 Dispose of contents and/or container according to Federal, State/Provincial and local governmental regulations.

### 2.3 Other Hazards:

Hazards not otherwise classified (HNOC): none/ none.

### **Hazardous Material Information System USA (estimated)**

## NFPA Rating (estimated)

Health	1
Flammability	3
Reactivity	0

# Section 3: Composition

#### 3.1 Substances: Product is a mixture

#### 3.2 Mixture:

Component	CAS#	EU#	Percentage
Acetone	67-64-1	200-662-2	~91%
Ethyl acetate	141-78-6	205-500-4	2.72-5.45%
Vinyl acetate	108-05-4	203-545-4	0.09-0.45%
Proprietary resins	n/a	n/a	3.18-6.27%

# Section 4: First Aid Measures

## 4.1 Description of first aid measures:

#### **General Information:**

If exposed or if you feel unwell: Call a POISON CENTER or doctor/physician. If unconscious place in recovery position and seek medical advice. Never give anything by mouth to an unconscious person or a person with cramps. Change contaminated, saturated clothing. Do not leave affected person unattended.

#### Inhalation:

Call a POISON CENTER/doctor. Remove casualty to fresh air and keep warm and at rest. If breathing is irregular or stopped, administer artificial respiration.

#### **Skin Contact:**

After contact with skin, wash immediately with plenty of water and soap. Remove contaminated, saturated clothing immediately. In case of skin reactions, consult a physician.

#### **Eye Contact:**

In case of contact with eyes, flush immediately with plenty of flowing water for 10 to 15 minutes, holding eyelids apart, and consult an ophthalmologist. Protect uninjured eye. Remove contact lenses, if present and easy to do. Continue rinsing.

#### Ingestion:

If accidentally swallowed, rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention. Do NOT induce vomiting. Give nothing to eat or drink.

## 4.2 Most important symptoms and effects, both acute and delayed:

See Section 11.

### 4.3 Indication of any immediate medical attention and special treatment needed:

No data available.

### 4.5 Information to physician:

Treat symptomatically and supportively.

# Section 5: Fire Fighting Measures

# 5.1 Extinguishing media:

Foam, dry chemical, or carbon dioxide.

### 5.2 Special hazards arising from the substance or mixture:

Carbon monoxide (CO) and/or Carbon dioxide (CO2) may be liberated in case of fire.

**5.3 Hazardous combustion products:** Carbon monoxide (CO) and Carbon dioxide (CO<sub>2</sub>).

## 5.4 Advice for firefighters:

Firefighter should wear self-contained breathing apparatus. Water may be ineffective, but may be used to cool exposed containers to prevent pressure build-up and possible auto-ignition or explosion when exposed to extreme heat. If water is used, fog nozzles are preferable.

#### **Additional Information:**

Do not allow run-off from fire-fighting to enter drains or water courses.

Do not inhale explosion and combustion gases.

Use caution when applying carbon dioxide in confined spaces. Carbon dioxide can displace oxygen.

Use water spray/stream to protect personnel and to cool endangered containers.

In case of fire: Evacuate area.

# Section 6: Accidental Release Measures

## 6.1 Personal precautions:

In case of major fire and large quantities: Remove persons to safety.

### **6.2 Environmental precautions:**

Prevent further leakage or spillage if safe to do so.

Discharge into the environment must be avoided.

Do not allow product to enter sewer or waterways.

# 6.3 Methods and material for containment and cleaning up:

Keep unnecessary personnel away.

Ensure adequate ventilation.

Avoid all sources of ignition.

Wear appropriate protective equipment and clothing during clean-up.

Absorb spill with an absorbent, non-combustible material such as earth, sand, or vermiculite.

Collect in closed and suitable containers for disposal.

Spilled product must never be returned to the original container for recycling.

#### 6.4 Reference to other sections:

For personal protection information see Section 8.

For disposal information, see Section 13.

# Section 7: Handling and Storage

#### 7.1 Precautions for safe handling:

Avoid inhalation.

Avoid contact with skin and eyes.

Ensure adequate ventilation.

Keep away from open flame, heat, or sources of ignition.

No smoking.

Take precautionary measures against static discharges.

### 7.2 Conditions for safe storage, including any incompatibilities:

Keep in a cool, well ventilated area away from heat, sparks and open flame.

Keep container tightly closed and in a well-ventilated place.

Keep/store away from combustible materials.

# 7.3 Specific end uses:

Liquid adhesive mountant.

This material is not being offered for clinical or diagnostic applications, agricultural uses or for human or animal consumption.

# Section 8: Exposure Controls and Personal Protection

### 8.1 Control parameter and Personal Protection:

# Workplace exposure limits:

Acetone CAS # 67-64-1

NIOSH LTV: 290 mg/m<sup>3</sup> / 250 ppm OSHA LTV: 2400 mg/m<sup>3</sup> / 1000 ppm ACGIH TWA 500 ppm; STEL 750 ppm

Ethyl acetate CAS # 141-78-6

ACGIH TWA: 400 ppm

OSHA PEL: 400 ppm (1,400 mg/m<sup>3</sup>)

Vinyl acetate CAS # 108-05-4

ACGIH TWA: 10 ppm TWA ACGIH STEL: 15 ppm

Biological limit values: No data available.

#### 8.2 Exposure controls:

### 8.2.1 Appropriate engineering controls:

An eyewash facility and a safety shower should be available.

Use adequate ventilation to keep airborne concentrations below the permissible exposure limits (i.e. concentrations below one half of the PEL and other relevant standards).

## 8.2.2 Individual protection measures:

Wear suitable protective clothing.

When handling with chemical substances, protective clothing must be worn.

Eye/Face Protection: Safety goggles or safety glasses with side shields.

Skin Protection: Wear suitable gloves. When handling with chemical substances, protective gloves must be worn. In the case of wanting to use the gloves again, clean them before taking off and air them well. Check leak tightness/impermeability prior to use.

For short-term hand contact: Nitrile rubber/ 0.425 mm thick, 10 minutes max wearing time.

For long-term hand contact: Butyl rubber/ 0.50 mm, >480 minutes max wearing time.

Respiratory Protection: Necessary at aerosol or mist formation. If exposure limits are exceeded or irritation is experienced, NIOSH approved respiratory protection should be worn.

Observe OSHA regulations for respirator use (29 CFR 1910.134).

### Additional information:

Wash hands before breaks and after work.

Avoid contact with skin and eyes.

When using, do not eat, drink, or smoke.

Provide eye shower and label its location conspicuously.

### 8.2.3 Environmental exposure controls:

Do not allow product to enter sewer or water ways.

# Section 9: Physical and Chemical Properties

9.1 Information on basic physical and chemical properties: (based on CAS # 67-64-1)

Appearance: Colorless liquid
Odor: Characteristic, pungent
Odor threshold: No data available

**pH:** 5-6 (400 g/l; H<sub>2</sub>O; 20 °C)

Melting point/Freezing point: -95.4 °C

Boiling point/Boiling point range: 56.2 °C (1013 hPa)

Flash Point: <-20 °C (-4 °F) (closed cup)

Evaporation rate: No data available

Flammability (solid, gas): Highly flammable liquid and vapor.

Upper/lower flammability or explosive limits:

Lower explosion limit: 2.6 % (v/v)
Upper explosion limit: 12.8 % (v/v)

Vapor Pressure: 233 hPa (20 °C)

Vapor density: 2.01 (20 °C)

Relative density: 0.792 g/cm³ (20 °C) Solubility in water: Soluble (20 °C)

Partition coefficient (n-octanol/water): -0.24 (20 °C)

Auto-ignition temperature: 465 °C (869 °F) (DIN 51794)

Decomposition temperature: No data available.

Viscosity:

Kinematic viscosity: No data available Dynamic viscosity: 0.32 mPa·s (20 °C)

**Explosive properties:** Not applicable **Oxidizing Properties:** Not applicable

### 9.2 Other information:

No additional relevant information.

# Section 10: Stability and Reactivity

#### 10.1 Reactivity:

Vapors are heavier than air, spread along floors, and form explosive mixtures with air.

## 10.2 Chemical Stability:

The product is chemically stable under standard ambient conditions (room temperature).

## 10.3 Possibility of Hazardous Reactions:

Formation of explosive mixtures with:

Oxidizing agent, strong Reducing agent, strong

Nitric acid

Trichloromethane

Peroxide

Violent reaction with:

Alkali (lye)
Oxidizing agent
Reducing agent
Exothermic reactions with:

Bromine Chlorine

### 10.4 Conditions to avoid:

UV-radiation / sunlight

High temperatures

This material is combustible and can be ignited by heat, sparks, flames, or other sources of ignition, such as static electricity, pilot lights, or mechanical/electrical equipment.

## 10.5 Incompatible materials:

Rubber articles

Plastic articles

Nitrates

Oxidizers

Strong acids

Alkalis

### 10.6 Hazardous decomposition products:

Carbon dioxide, Carbon monoxide, irritating and toxic fumes and gases.

#### 10.7 Additional information:

No data available.

# Section 11: Toxicological Information

# Information on the likely routes of exposure:

## 11.1 Information on toxicological effects:

### A. Acute toxicity:

RTECS #: CAS# 67-64-1: AL3150000

CAS# 141-78-6: AH5425000 CAS # 108-05-4: AK0875000

Toxicity data: CAS# 67-64-11

Type of Test	Species/Route	Dose/Duration	Results
Draize	Human/Eye	500 ppm	
Open Irritation	Rabbit/Skin	395 mg	Mild
Draize	Rabbit/Skin	500 mg/24H	Mild
Draize	Rabbit/Eye	20 mg	Severe
Draize	Rabbit/Eye	20 mg/24H	Moderate
$TD_Lo$	Human/Oral	2857 mg/kg	Coma; Kidney, Ureter, Bladder, other
$TD_Lo$	Human/Oral	2857 mg/kg	Coma; Metabolism (intermediary)-other

$TC_{Lo}$	Human/Inhalation	440 μg/m <sup>3</sup> /6M	Brain & Covering
$TC_{Lo}$	Human/Inhalation	10 mg/m <sup>3</sup> /6H	Metabolism (intermediary)-other
$TC_Lo$	Human/Inhalation	500 ppm	Sense Organs and Special Senses
$TC_Lo$	Human/Inhalation	12000 ppm/4H	Nausea or Vomiting/Muscle Weakness
$LD_Lo$	Human/Unreported	1159 mg/kg	Lethal Dose Value
LD50	Rat/Oral	5800 mg/kg	Altered Sleep; Tremor
LC50	Rat/Inhalation	50100 mg/m <sup>3</sup> /8H	Lethal Dose Value
$LD_Lo$	Rat/Intraperitoneal	500 mg/kg	General Anesthetic; Muscle Weakness
LD50	Rat/Intravenous	5500 mg/kg	Lethal Dose Value
LD50	Mouse/Oral	3 gm/kg	Lethal Dose Value
LC50	Mouse/Inhalation	44 gm/m <sup>3</sup> /4H	Lethal Dose Value
*** See RTECS for f	ull listing ***	•	

See RTECS for full listing

Toxicity data:	CAS# 141-78-6		
Type of Test	Species/Route	Dose/Duration	Results
Draize	Human/Eye	400 ppm	
TC <sub>Lo</sub>	Human/Inhalation	400 ppm	Sense Organs & Special Senses
			Conjunctive Irritation; Lungs, Thorax – other
LD50	Rat/Oral	5260 mg/kg	Lethal Dose Value
LC50	Rat/Inhalation	200 gm/m <sup>3</sup>	Somnolence; Acute Pulmonary Edema
$LD_Lo$	Rat/Subcutaneous	5 gm/kg	Lethal Dose Value
LD50	Mouse/Oral	4100 mg/kg	Somnolence; Changes in Motor Activity; coma
LC50	Mouse/Inhalation	45 gm/m <sup>3</sup> /2H	Lethal Dose Value
LD50	Mouse/Intraperitone	al 709 mg/kg	Lethal Dose Value
LD50	Rabbit/Oral	4935 mg/kg	Lethal Dose Value
LD50	Rabbit/Skin	>20 mL/kg	Lethal Dose Value
LD50	Guinea Pig/Oral	5500 mg/kg	Somnolence; Changes in Motor Activity; coma
LD50	Guinea Pig/Subcut.	3 gm/kg	Somnolence
$TD_Lo$	Rat/Intraperitoneal	8 mL/kg/8D-I	Liver; Enzyme Inhibition; Metabolism
*** See RTECS for f	ull listina ***	•	•

***	See	RTEC	S for	full	listing	***
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Toxicity data:	CAS# 108-05-4		
Type of Test	Species/Route	Dose/Duration	Results
LD50	Rat/Oral	2920 mg/kg	
LD50	Rabbit/Dermal	2335 mg/kg	
LC50	Rabbit/Inhalation	2500 ppm/4 H	
LC50	Rabbit/Inhalation	2511 ppm/4H	
LC50	Rabbit/Inhalation	8800 ppm/4H	
LC50	Rat/Inhalation	3680 ppm/4 H	
LC50	Rat/Inhalation	3680 ppm/4 H	

Immediate and Delayed Health Effects: Central nervous system, Irritant, Mutagen, Some evidence of carcinogenicity.

# B. Skin or Respiratory corrosion/irritation:

Causes mild skin irritation.

# C. Serious eye damage/irritation:

Causes serious eye irritation.

# D. Respiratory or skin sensitization:

In case of skin contact: Not sensitizing. After inhalation: Not sensitizing.

# E. Germ cell mutagenicity:

CAS # 67-64-1:

Sex chromosome loss and non-disjunction(Yeast-Saccharomyces cerevisiae) - 47600 ppm Cytogenetic analysis (Rodent - hamster Fibroblast) - 40 gm/L No indications of human germ cell mutagenicity exist.

## F. Carcinogenicity:

CAS # 67-64-1: Not listed by ACGIH or IARC.

CAS # 141-78-6: Not listed by ACGIH, IARC, NIOSH, NTP or OSHA.

CAS # 108-05-4: Not listed by NTP or OSHA;

Listed as Group 2B by IARC;

Listed as A3 – Animal carcinogen with unknown relevance to humans.

## G. Reproductive toxicity:

CAS # 67-64-1: Reproductive – Paternal Effects – spermatogenesis, including genetic material, sperm morphology, motility and count.

## H. STOT-single exposure:

May cause drowsiness or dizziness.

I.. STOT-repeated exposure: No data available

J. Aspiration hazard: No data available.

# Section 12: Ecological Information

12.1 Toxicity:

CAS#141-78-6 CAS# 67-64-1

Ecotoxicity:

Fish (LC50):

Fathead Minnow: 230 mg/L 7280-8120 mg/L Bluegill: 8300 mg/L

Environmental:

Terrestrial: mobile in soil

Volatile from leaches, and Soil surface biodegrades Degraded when released

volatilizes,

photochem. to soil.

In air/L/2=10d

12.2 Persistence and degradability: No data available.

12.3 Bio-accumulative potential: No data available

12.4 Mobility in soil: No data available.

12.5 Results of PBT and vPvB assessment: No data available.

12.6 Other adverse effects: No data available.

# Section 13: Disposal Considerations

## 13.1 Waste treatment methods:

## Appropriate disposal / Product:

Hazardous Waste Number: D001: Ignitable.

Dispose according to all local, state and federal legislation. Consult the appropriate local waste disposal expert about waste disposal.

### Appropriate disposal / Package:

Dispose according to all local, state, and federal legislation. Handle contaminated packages in the same way as the substance itself.

Additional information: No data available.

# Section 14: Transport Information

### DOT:

14.1 UN number: UN109014.2 UN proper shipping name: Acetone

14.3 Transport hazard class(es):314.4 Hazard label:314.5 Packing Group:II14.6 Environmental hazards:No14.7 Marine pollutant:No

14.7 Special precautions for user: No data available.

IATA:

UN number: UN1090 UN proper shipping name: ACETONE

Transport hazard class(es): 3

Classification code: Hazard label:

Hazard label: 3
Packing Group: II

Special precautions for user: No data available.

IMDG:

UN number: UN1090 UN proper shipping name: ACETONE

Transport hazard class(es): 3

Classification code:
Hazard label: 3
Packing Group: II

Special precautions for user:

Environmental hazards: No MARINE POLLUTANT: No data available.

Segregation group:

EmS-No.: F-E S-D

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: not relevant

No data available.

# Section 15: Regulatory Information

15.1 Safety, health and environmental regulations/ legislation specific for the substance or mixture:

#### **US FEDERAL**:

### **TSCA**

CAS # 67-64-1 is listed on the TSCA Active Inventory List. CAS # 141-78-6 is listed on the TSCA Active Inventory List. CAS # 108-05-4 is listed on the TSCA Active Inventory List.

#### **Chemical Test Rules**

Not listed

### **TSCA Significant New Use Rule**

Not listed on SNUR under TSCA.

#### **SARA**

### Section 302 (RQ/TPQ)

CAS# 67-64-1: final RQ = 5000 pounds (2270 kg) CAS# 141-78-6: final RQ = 5000 pounds (2270 kg) CAS# 108-05-4: TPQ = 1000 pounds (454 kg)

#### **SARA Codes**

CAS# 67-64-1: fire hazard, acute health hazard, chronic health hazard CAS# 141-78-6: fire hazard, acute health hazard, chronic health hazard CAS # 108-05-4: fire hazard, acute health hazard, chronic health hazard

#### **Clean Air Act:**

CAS# 108-05-4: CAA TQ=15,000 pounds

#### **Clean Water Act:**

Not listed

#### OSHA:

Not listed as highly hazardous by OSHA.

#### STATE:

CAS# 67-64-1 may be found on the California Right to Know List.

CAS # 141-78-6 may be found on the California and Massachusetts Right to Know Lists.

CAS # 108-05-4 may be found on the California, New Jersey, and Massachusetts Right to Know Lists.

### 15.2 Chemical Safety Assessment:

Date of Preparation: 30 January 2019.

### Abbreviations and acronyms

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

CMRG: Chemical Manufacturer's Recommended Guidelines

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

AIHA: American Industrial Hygiene Association

EINECS: European Inventory of Existing Commercial Chemical Substances

**ELINCS: European List of Notified Chemical Substances** 

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

LD<sub>10</sub>: The lowest amount of a solid or liquid material reported to have caused the death of animals or humans.

PBT: Persistent, Bio-accumulative and Toxicological vPvB: very Persistent and very Bio-accumulative NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety Health ATE: Acute Toxicity Estimates

TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit
STEL: Short Term Exposure Limit

CEIL: Ceiling

TSCA: Toxic Substances Control Act (USA)
DSL: Domestic Substances List (Canada)

PICCS: Philippine Inventory of Chemicals and Chemical Substances

ENCS: Existing and New Chemical Substances (Japan) AICS: Australian Inventory of Chemical Substances

IECSC: Inventory of Existing Chemical Substances in China

**KECL**: Korea Existing Chemicals List

# Section 16: Other Information

# **Disclaimer of Liability:**

Caution! Do not use SPI Supplies products or materials in applications involving implantation within the body; direct or indirect contact with the blood pathway; contact with bone, tissue, tissue fluid, or blood; or prolonged contact with mucous membranes. Products offered by SPI Supplies are not designed or manufactured for use in implantation in the human body or in contact with internal body fluids or tissues. SPI Supplies will not provide to customers making devices for such applications any notice, certification, or information necessary for such medical device use required by US FDA (Food and Drug Administration) regulation or any other statute. SPI Supplies and Structure Probe, Inc. make no representation, promise, express warranty or implied warranty concerning the suitability of these materials for use in implantation in the human body or in contact with internal body tissues of fluids.

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# SAFETY DATA SHEET

Mystik® JT-8® Synthetic Engine Oil, SAE 5W-40



# **Section 1. Identification**

**GHS** product identifier

: Mystik® JT-8® Synthetic Engine Oil, SAE 5W-40

**Synonyms** 

Code

Not available.663019002

Supplier's details

: CITGO Petroleum Corporation

P.O. Box 4689 Houston, TX 77210 sdsvend@citgo.com

**Emergency telephone** number (with hours of

operation)

: Technical Contact: (800) 248-4684 Medical Emergency: (832) 486-4700 CHEMTREC Emergency: (800) 424-9300

(United States Only)

# Section 2. Hazards identification

**OSHA/HCS** status

: While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.

Classification of the substance or mixture

: Not classified.

**GHS label elements** 

Signal word

: No signal word.

**Hazard statements** 

: No known significant effects or critical hazards.

**Precautionary statements** 

**General** 

: Avoid contact with eyes, skin and clothing.. May be harmful if swallowed. IF IN EYES: Rinse cautiously with water for several minutes. If swallowed, do not induce vomiting. After handling, always wash hands thoroughly with soap and water. If you feel unwell, seek medical attention and show the label when possible. Keep out of reach of children.

Prevention Response

: Not applicable.

: Not applicable.

: Store in a dry place and/or in closed container. Store in accordance with all local,

Disposal

**Storage** 

regional, national and international regulations.

Dispose of contents and container in accordance with all local, regional, national and

international regulations.

**Hazards not otherwise** 

classified

: None known.

# Section 3. Composition/information on ingredients

Substance/mixture

Other means of

identification

: Mixture

: Not available.

**CAS** number/other identifiers

**CAS number** : Not applicable.

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Mystik® JT-8® Synthetic Engine Oil, SAE 5W-40

# Section 3. Composition/information on ingredients

Ingredient name	%	CAS number
Distillates (petroleum), hydrotreated heavy paraffinic	≥50 - ≤75	64742-54-7
Distillates (petroleum), solvent-dewaxed heavy paraffinic	≤10	64742-65-0
Dec-1-ene, homopolymer, hydrogenated Dec-1-ene, oligomers,	≤10	68037-01-4
hydrogenated		
1-Decene, tetramer, mixed with 1-decene trimer, hydrogenated	≤10	68649-12-7

Any concentration shown as a range is to protect confidentiality or is due to process variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

# Section 4. First aid measures

## **Description of necessary first aid measures**

**Eye contact**: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower

eyelids. Check for and remove any contact lenses. Get medical attention if irritation

occurs.

**Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get

medical attention if symptoms occur.

**Skin contact** : Flush contaminated skin with plenty of water. Remove contaminated clothing and

shoes. Get medical attention if symptoms occur.

**Ingestion**: Wash out mouth with water. Remove victim to fresh air and keep at rest in a position

comfortable for breathing. Do not induce vomiting unless directed to do so by medical

personnel. Get medical attention if symptoms occur.

### Most important symptoms/effects, acute and delayed

## Potential acute health effects

Eye contact
 Inhalation
 No known significant effects or critical hazards.
 Skin contact
 No known significant effects or critical hazards.
 Ingestion
 No known significant effects or critical hazards.
 No known significant effects or critical hazards.

## Over-exposure signs/symptoms

Eye contact : No specific data.

Inhalation : No specific data.

Skin contact : No specific data.

Ingestion : No specific data.

## Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large

quantities have been ingested or inhaled.

**Specific treatments**: Treat symptomatically and supportively.

**Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training.

See toxicological information (Section 11)

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# Section 5. Fire-fighting measures

## **Extinguishing media**

Suitable extinguishing media

: Use an extinguishing agent suitable for the surrounding fire.

**Unsuitable extinguishing** media

: None known.

# Specific hazards arising from the chemical

: In a fire or if heated, a pressure increase will occur and the container may burst.

**Hazardous thermal** decomposition products : Decomposition products may include the following materials:

carbon dioxide carbon monoxide sulfur oxides phosphorus oxides metal oxide/oxides

**Special protective actions** for fire-fighters

: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

**Special protective** equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

# Section 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.

For emergency responders: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For nonemergency personnel".

**Environmental precautions** 

: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

### Methods and materials for containment and cleaning up

**Small spill** 

: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill

: Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

# Section 7. Handling and storage

### **Precautions for safe handling**

**Protective measures** 

Advice on general occupational hygiene

- : Put on appropriate personal protective equipment (see Section 8).
- : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

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# Section 7. Handling and storage

including any incompatibilities

Conditions for safe storage, : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

> Bulk Storage Conditions: Maintain all storage tanks in accordance with applicable regulations. Use necessary controls to monitor tank inventories. Inspect all storage tanks on a periodic basis. Test tanks and associated piping for tightness. Maintain the automatic leak detection devices to assure proper working condition.

# Section 8. Exposure controls/personal protection

# **Control parameters**

### Occupational exposure limits

Distillates (petroleum), hydrotreated heavy paraffinic

Distillates (petroleum), solvent-dewaxed heavy paraffinic

ACGIH TLV (United States, 3/2016).

TWA: 5 mg/m<sup>3</sup> 8 hours. Form: Inhalable

fraction

OSHA PEL (United States, 6/2016).

TWA: 5 mg/m3 8 hours.

NIOSH REL (United States, 10/2013).

TWA: 5 mg/m<sup>3</sup> 10 hours. Form: Mist STEL: 10 mg/m³ 15 minutes. Form: Mist

ACGIH TLV (United States, 3/2016). TWA: 5 mg/m<sup>3</sup> 8 hours. Form: Inhalable

fraction

OSHA PEL (United States, 6/2016).

TWA: 5 mg/m<sup>3</sup> 8 hours.

NIOSH REL (United States, 10/2013).

TWA: 5 mg/m<sup>3</sup> 10 hours. Form: Mist STEL: 10 mg/m³ 15 minutes. Form: Mist

**Appropriate engineering** controls

**Environmental exposure** controls

- : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
- : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, vapor controls, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

## **Individual protection measures**

**Hygiene measures** 

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection

: Safety glasses equipped with side shields are recommended as minimum protection in industrial settings. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles. Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If inhalation hazards exist, a full-face respirator may be required instead.

### **Skin protection**

**Hand protection** 

: Chemical-resistant gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

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# Section 8. Exposure controls/personal protection

**Body protection** 

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection

: Avoid skin contact with liquid. Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Leather boots are not protective for liquid contact.

**Respiratory protection** 

: Avoid inhalation of gases, vapors, mists or dusts. Use a properly fitted, air-purifying or supplied-air respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

# Section 9. Physical and chemical properties

**Appearance** 

Physical state : Liquid.
Color : Amber.

Odor : Mild petroleum odor

pH : Not available.Boiling point : Not available.

Flash point : Open cup: 222°C (431.6°F) [Cleveland.]

Lower and upper explosive

(flammable) limits

: Not available.

**Vapor pressure** : <0.013 kPa (<0.1 mm Hg) [room temperature]

Vapor density : Not available.

Relative density : 0.8564

Density lbs/gal : 7.13 lbs/gal

Density gm/cm³ : Not available.

Gravity, °API : Estimated 34 @ 60 F

**Solubility** : Insoluble in the following materials: cold water.

Flow time (ISO 2431) : Not available.

Viscosity : Kinematic (40°C (104°F)): 0.93 cm²/s (93 cSt)

Viscosity SUS : Estimated 431 SUS @104 F

# Section 10. Stability and reactivity

**Reactivity**: Not expected to be Explosive, Self-Reactive, Self-Heating, or an Organic Peroxide

under US GHS Definition(s).

**Chemical stability**: The product is stable.

**Possibility of hazardous** 

reactions

: Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid : No specific data.

**Incompatible materials**: No specific data.

**Hazardous decomposition** 

products

: Under normal conditions of storage and use, hazardous decomposition products should

not be produced.

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# **Section 11. Toxicological information**

# Information on toxicological effects

## **Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
Distillates (petroleum), hydrotreated heavy paraffinic	LD50 Oral	Rat	>5000 mg/kg	-
Distillates (petroleum), solvent-dewaxed heavy paraffinic	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
Dec-1-ene, homopolymer, hydrogenated Dec-1-ene, oligomers, hydrogenated	LD50 Dermal	Rabbit	>2000 mg/kg	-
	LD50 Oral	Rat	>2000 mg/kg	-

### **Conclusion/Summary**

: Distillates (petroleum), hydrotreated heavy paraffinic: Mineral oil mists derived from highly refined oils are reported to have low acute and sub-acute toxicities in animals. Effects from single and short-term repeated exposures to high concentrations of mineral oil mists well above applicable workplace exposure levels include lung inflammatory reaction, lipoid granuloma formation and lipoid pneumonia. In acute and sub-acute studies involving exposures to lower concentrations of mineral oil mists at or near current work place exposure levels produced no significant toxicological effects. Distillates (petroleum), solvent-dewaxed heavy paraffinic: Mineral oil mists derived from highly refined oils are reported to have low acute and sub-acute toxicities in animals. Effects from single and short-term repeated exposures to high concentrations of mineral oil mists well above applicable workplace exposure levels include lung inflammatory reaction, lipoid granuloma formation and lipoid pneumonia. In acute and sub-acute studies involving exposures to lower concentrations of mineral oil mists at or near current work place exposure levels produced no significant toxicological effects. Dec-1-ene, homopolymer, hydrogenated Dec-1-ene, oligomers, hydrogenated: Practically non-irritating to eyes. Practically non-irritating to the skin.

### Irritation/Corrosion

Not available.

Skin No additional information. **Eyes**  No additional information. Respiratory : No additional information.

**Sensitization** 

Not available.

Skin : No additional information. : No additional information. Respiratory

**Mutagenicity** Not available.

**Conclusion/Summary** : No additional information.

Carcinogenicity

Not available.

**Conclusion/Summary Reproductive toxicity** 

Not available.

: No additional information.

Conclusion/Summary **Teratogenicity** 

Not available.

: No additional information.

Conclusion/Summary : No additional information.

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# **Section 11. Toxicological information**

# Specific target organ toxicity (single exposure)

Not available.

## Specific target organ toxicity (repeated exposure)

Not available.

## **Aspiration hazard**

Not available.

Information on the likely

routes of exposure

: Not available.

## Potential acute health effects

Eye contact
 Inhalation
 No known significant effects or critical hazards.
 Skin contact
 No known significant effects or critical hazards.
 Ingestion
 No known significant effects or critical hazards.
 No known significant effects or critical hazards.

## Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : No specific data.
Inhalation : No specific data.
Skin contact : No specific data.
Ingestion : No specific data.

## Delayed and immediate effects and also chronic effects from short and long term exposure

**Short term exposure** 

**Potential immediate** 

effects

: Not available.

Potential delayed effects : Not available.

**Long term exposure** 

Potential immediate : Not available.

effects

Potential delayed effects : Not available.

### Potential chronic health effects

Not available.

General : No known significant effects or critical hazards.
 Carcinogenicity : No known significant effects or critical hazards.
 Mutagenicity : No known significant effects or critical hazards.
 Teratogenicity : No known significant effects or critical hazards.
 Developmental effects : No known significant effects or critical hazards.
 Fertility effects : No known significant effects or critical hazards.

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# Section 12. Ecological information

### **Toxicity**

Not available.

**Conclusion/Summary**: Not available.

## Persistence and degradability

**Conclusion/Summary** 

: Butene, homopolymer (products derived from either/or But-1-ene/But-2-ene): This product is unlikely to biodegrade at a significant rate.

## **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
Dec-1-ene, homopolymer, hydrogenated Dec-1-ene, oligomers, hydrogenated 1-Decene, tetramer, mixed with 1-decene trimer, hydrogenated	>6.5 5	-	high

### **Mobility in soil**

Soil/water partition coefficient (K<sub>oc</sub>)

: Not available.

Other adverse effects

: No known significant effects or critical hazards.

# Section 13. Disposal considerations

### **Disposal methods**

: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

# Section 14. Transport information

	DOT Classification	IMDG	IATA
UN number	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-
Transport hazard class(es)	-	-	-
Packing group	-	-	-
Environmental hazards	No.	No.	No.

Date of issue/Date of revision : 4/18/2018 Date of previous issue : No previous validation Version : 1 8/11

# **Section 14. Transport information**

Special precautions for user : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according to Annex II of MARPOL and the IBC Code

: Not available.

# Section 15. Regulatory information

**U.S. Federal regulations** 

United States inventory (TSCA 8b): All components are listed or exempted. Clean Water Act (CWA) 307: Phosphorodithioic acid, mixed O,O-bis(sec-Bu and isooctyl) esters, zinc salts

Clean Water Act (CWA) 311: fumaric acid; ethylenediamine; vinyl acetate; isoprene This material is classified as an oil under Section 311 of the Clean Water Act (CWA) and the Oil Pollution Act of 1990 (OPA). Discharges or spills which produce a visible sheen on waters of the United States, their adjoining shorelines, or into conduits leading to surface waters must be reported to the EPA's National Response Center at (800) 424-8802.

### **SARA 302/304**

# **Composition/information on ingredients**

			SARA 302 TPQ SARA 304 RQ		04 RQ	
Name	%	EHS	(lbs)	(gallons)	(lbs)	(gallons)
ethylenediamine vinyl acetate	<0.01 <0.0001	Yes. Yes.	10000 1000	1337.1 129	5000 5000	668.5 644.8

**SARA 304 RQ** : 62261693.4 lbs / 28266808.8 kg [8719407.8 gal / 33006549.3 L]

**SARA 311/312** 

Classification : Not applicable. **Composition/information on ingredients** 

No products were found.

## **State regulations**

**Massachusetts** : None of the components are listed.

**New York** : The following components are listed: Butene, homopolymer (products derived from

either/or But-1-ene/But-2-ene)

**New Jersey** : None of the components are listed.

**Pennsylvania** : The following components are listed: Butene, homopolymer (products derived from

either/or But-1-ene/But-2-ene)

## California Prop. 65 Clear and Reasonable Warnings (2018)

⚠ WARNING: This product can expose you to chemicals including Isoprene, which is known to the State of California to cause cancer, and Ethylene Glycol, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Ingredient name	%	Cancer	Reproductive		Maximum acceptable dosage level
ethanediol isoprene	<0.01 <0.1	No. Yes.	Yes. No.	-	-

#### **International regulations**

WHMIS (Canada) : Not controlled under WHMIS (Canada).

**Inventory list** 

**United States** : All components are listed or exempted.

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# Section 15. Regulatory information

: All components are listed or exempted. **Australia** Canada : All components are listed or exempted.

China : Not determined. **Europe** : Not determined.

**Japan** : Japan inventory (ENCS): Not determined. Japan inventory (ISHL): Not determined.

Malaysia : Not determined.

**New Zealand** : All components are listed or exempted. **Philippines** : All components are listed or exempted. Republic of Korea : All components are listed or exempted.

**Taiwan** : Not determined. **Thailand** : Not determined. **Turkey** : Not determined. **Viet Nam** : Not determined.

# Section 16. Other information

## **National Fire Protection Association (U.S.A.)**



Reprinted with permission from NFPA 704-2001, Identification of the Hazards of Materials for Emergency Response Copyright ©1997, National Fire Protection Association, Quincy, MA 02269. This reprinted material is not the complete and official position of the National Fire Protection Association, on the referenced subject which is represented only by the standard in its entirety.

Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

## Procedure used to derive the classification

Classification	Justification
Not classified.	

### **History**

**Date of printing** : 4/18/2018 Date of issue/Date of : 4/18/2018 revision

**Date of previous issue** : No previous validation

**Version** : 1

**Key to abbreviations** : ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships, 1973

as modified by the Protocol of 1978. ("Marpol" = marine pollution)

**UN = United Nations** 

: Not available. References

Indicates information that has changed from previously issued version.

Date of issue/Date of revision : 4/18/2018 Date of previous issue : No previous validation Version :1 10/11 Mystik® JT-8® Synthetic Engine Oil, SAE 5W-40

# **Section 16. Other information**

### **Notice to reader**

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# **SPI Supplies Division**

Structure Probe, Inc.

206 Garfield Ave., West Chester, PA 19380-4512 USA **Phone:** 1-(610)-436-5400 **Fax:** 1-(610)-436-5755

sales@2spi.com http://www.2spi.com

Manufacturer's CAGE: 1P573

# **Safety Data Sheet**

Date Effective: July 30, 2019

SPI Catalog #'s 05007-AB, 05007-DA

Thinner for Carbon Conductive Paint

# Section 1.1: Identification

Chemical Name/Synonyms ...... isopropyl alcohol, isopropanol, 2-propanol

Product or Trade Name ...... Thinner for Carbon Conductive Paint

(Formulated for use with SPI# 5006 Carbon Paint)

CAS #'s ...... 67-63-0

Chemical Formula...... C<sub>3</sub>H<sub>8</sub>O

# Section 1.2: Relevant Uses/Restrictions

Thinner for SPI Catalog # 05006 Conductive Carbon Paint

# Section 1.3: Supplier of the Safety Data Sheet

SPI Supplies Division Structure Probe, Inc.

206 Garfield Ave., West Chester, PA 19380-4512 USA **Phone:** 1-(610)-436-5400 **Fax:** 1-(610)-436-5755

sales@2spi.com http://www.2spi.com

Manufacturer's CAGE: 1P573

# Section 1.4: Emergency telephone number

**Emergencies** 

Contacting CHEMTREC:

24 Hour Emergency Use Only #'s... Worldwide phone: 1-(703)-741-5970

Toll-free phone: 1-(800)-424-9300 USA + Canada only

# Section 2: Hazard Identification

#### 2.1 Classification of the substance

### GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Flammable liquids (Category 2) Skin irritation (Category 3) Eye irritation (Category 2A)

Specific target organ toxicity- single exposure (Category 3)

Specific target organ toxicity – repeated exposure

Nerves., Kidney, Cardiovascular system, Gastrointestinal tract, Liver

#### 2.2 Label elements

#### **Pictogram**





Signal Word: Danger

#### **Hazard statements:**

H225: Highly flammable liquid and vapor.

H319: Causes serious eye irritation

H335: May cause respiratory irritation

#### **Precautionary statements:**

P210 Keep away from heat/ sparks/ open flames/ hot surfaces. – No smoking.

P233 Keep container tightly closed.

P240 Ground/ bond container and receiving equipment.

P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment.

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.

P261 Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.

P264 Wash skin thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves/ eye protection/ face protection.

P303 + P361 + P353 IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.

P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P312 Call a POISON CENTER or doctor/ physician if you feel unwell.

H336 May cause drowsiness or dizziness

P337 + P313 If eye irritation persists: Get medical advice/ attention.

P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

P235 Keep cool.

P405 Store locked up.

P501 Dispose of contents/ container in accordance with local, state & federal regulations.

#### Carcinogenicity:

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP, IARC, or OSHA.

#### 2.3 Other Hazards:

#### **Hazardous Material Information System USA**

#### NFPA Rating (estimated)

## Section 3: Composition

#### 3.1 Substances:

Chemical Name: Isopropanol

CAS #: 67-63-0 EC #: 200-661-7 Concentration: 100%

#### Section 4: First Aid Measures

#### 4.1 Description of first aid measures:

#### Inhalation:

Remove to fresh air.

If not breathing, give artificial respiration.

If breathing is difficult, give oxygen.

Use oxygen as required, provided a qualified operator is present.

Call a physician.

#### Skin Contact:

Wash off immediately with plenty of water for at least 15 minutes.

Take off contaminated clothing and shoes immediately.

Wash contaminated clothing before re-use.

Call a physician if irritation develops or persists.

#### **Eye Contact:**

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Call a physician.

#### Ingestion

Do not induce vomiting without medical advice.

Immediate medical attention is required.

Never give anything by mouth to an unconscious person.

Call a physician.

#### Notes to physician:

Treat symptomatically.

#### 4.2 Most important symptoms and effects, both acute and delayed:

No further relevant information available.

#### 4.3 Indication of any immediate medical attention and special treatment needed:

## Section 5: Fire Fighting Measures

#### 5.1 Extinguishing media:

Suitable extinguishing media: Alcohol-resistant foam, Carbon dioxide (CO<sub>2</sub>), Dry chemical. Cool closed containers exposed to fire with water spray.

Unsuitable extinguishing media: Do not use a solid water stream as it may scatter and spread fire.

#### 5.2 Special hazards arising from the substance or mixture:

Flammable.

Vapors may form explosive mixtures with air.

Vapors are heavier than air and may spread along floors.

Vapors may travel to areas away from work site before igniting/flashing back to the vapor source.

#### 5.3 Hazardous combustion products:

Hazardous decomposition products which may be produced under fire conditions:

Carbon monoxide (CO)

Carbon dioxide (CO<sub>2</sub>)

#### 5.4 Advice for firefighters:

#### Special protective equipment and precautions for firefighters:

Wear self-contained breathing apparatus and protective suit.

### Section 6: Accidental Release Measures

#### 6.1 Personal precautions:

Wear personal protective equipment.

Immediately evacuate personnel to safe areas.

Keep people away from and upwind of spill/ leak.

Ensure adequate ventilation.

Remove all sources of ignition.

Do not swallow.

Avoid breathing vapors, mist or gas.

Avoid contact with skin, eyes and clothing.

#### 6.2 Environmental precautions:

Prevent further leakage or spillage if safe to do so.

Prevent product from entering drains.

Discharge into the environment must be avoided.

Do not flush into surface water or sanitary sewer system.

Do not allow run-off from fire-fighting to enter drains or water courses.

#### 6.3 Methods and material for containment and cleaning up:

Ventilate the area.

No sparking tools should be used.

Use explosion-proof equipment.

Contain spillage.

Soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see Section 13).

#### 6.4 Reference to other sections:

See Section 8 for personal protection equipment.

See Section 13 for information on disposal.

### Section 7: Handling and Storage

#### 7.1 Precautions for safe handling:

#### **Protective measures:**

Wear personal protective equipment.

Use only in well-ventilated areas.

Keep container tightly closed.

Do not smoke.

Do not swallow.

Avoid breathing vapors, mist or gas.

Avoid contact with skin, eyes, and clothing.

#### 7.2 Conditions for safe storage, including any incompatibilities:

Keep away from fire, sparks and heated surfaces.

Take precautionary measures against static discharges.

Ensure all equipment is electrically grounded before beginning transfer operations.

Use explosion-proof equipment.

Keep product and empty container away from heat and sources of ignition.

No sparking tools should be used.

No smoking.

#### 7.3 Specific end uses:

Thinner for SPI Catalog # 05006 Conductive Carbon Paint.

This material is not being offered for clinical or diagnostic applications, agricultural uses or for human or animal consumption.

## Section 8: Exposure Controls and Personal Protection

#### 8.1 Control parameter and Personal Protection:

Workplace exposure limits: Isopropanol CAS # 67-63-0

<u>Value</u>	Control parameters	Update	Basis
TWA:	(200 ppm)	2008	ACGIH:US. ACGIH Threshold Limit Values
STEL:	(400 ppm)	2008	ACGIH:US. ACGIH Threshold Limit Values
REL:	980 mg/m <sup>3</sup> ; (400 ppm)	2005	NIOSH/GUIDE:US. NIOSH Pocket Guide to Chemical Hazards
STEL:	1,225 mg/m <sup>3</sup> ; (500 ppm	)2005	NIOSH/GUIDE.US. NIOSH Pocket Guide to Chemical Hazards
PEL:	980 mg/m <sup>3</sup> ; (400 ppm)	02.2006	OSHA_TRANS:US. OSHA Table Z-1 Limits for Air
			Contaminants (29 CFR 1910.1000)
TWA:	980 mg/m <sup>3</sup> ; (400 ppm)	1989	Z1A:US. OSHA Table Z-1-A (29 CFR 1910.1000
STEL:	1,225 mg/m <sup>3</sup> ; (500 ppm	)1989	Z1A:US.OSHA Table Z-1-A (29 CFR 1910.1000)

TWA=Time Weighted Average STEL=Short Term Exposure Limit PEL=Permissible Exposure Limit

Biological limit values: No data available.

#### 8.2 Exposure controls:

#### 8.2.1 Appropriate engineering controls:

Use with local exhaust ventilation.

Prevent vapor buildup by providing adequate ventilation during and after use.

Ensure that eyewash stations and safety showers are close to the workstation location.

#### 8.2.2 Individual protection measures:

Eye protection:

Do not wear contact lenses.

Wear as appropriate: safety glasses with side-shields.

If splashes are likely to occur, wear: Goggles or face shield, giving complete protection to eyes.

#### Hand protection:

Solvent-resistant gloves.

Gloves must be inspected prior to use.

Replace when worn.

#### Skin and body protection:

Wear as appropriate:

Solvent-resistant apron.

Flame retardant antistatic protective clothing.

If splashes are likely to occur, wear:

Protective suit.

#### Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment.

For rescue and maintenance work in storage tanks use self-contained breathing apparatus. Use NIOSH approved respiratory protection.

#### Hygiene measures:

When using, do not eat, drink or smoke.

Wash hands before breaks and immediately after handling the product.

Keep working clothes separately.

Remove and wash contaminated clothing before re-use.

Do not swallow.

Avoid breathing vapors, mist, or gas.

Avoid contact with skin, eyes and clothing.

#### 8.2.3 Environmental exposure controls:

Prevent product from entering drains.

Discharge into the environment must be avoided.

Do not flush into surface water or sanitary sewer system.

Do not allow run-off from fire-fighting to enter drains or water courses.

## Section 9: Physical and Chemical Properties

#### 9.1 Information on basic physical and chemical properties:

**Appearance:** Colorless liquid **Odor:** Slight alcohol-like

Odor threshold: No data available

pH: Not applicable

Melting point/Freezing point: -88 °C

Boiling point/Boiling point range: 82.3 °C

Flash Point: 54 ° F (12 ° C)

Evaporation rate: No data available

Flammability (solid, gas): No data available
Upper/lower flammability or explosive limits:

Lower: 2 %(V)

Higher: 12 %(V)

Vapor Pressure: 44 hPa at 20 °C (68 °F)

Vapor density: 2.1 (Air = 1.0)

Density: 0.785 g/cm<sup>3</sup> at 20 °C

Solubility: Completely soluble

Partition coefficient (n-octanol/water): No data available

Ignition temperature: 399 °C

Decomposition temperature: No data available

Viscosity, dynamic: 2.1 mPa.s at 25 ° C Explosive properties: No data available Oxidizing Properties: No data available

Molecular weight: 60.11 g/mol

**9.2 Other information:** No further relevant information available.

## Section 10: Stability and Reactivity

#### 10.1 Reactivity:

#### 10.2 Chemical Stability:

Stable under recommended storage conditions.

#### 10.3 Possibility of Hazardous Reactions:

Hazardous polymerization does not occur.

#### 10.4 Conditions to avoid:

Heat, flames and sparks.

Keep away from direct sunlight.

#### 10.5 Incompatible materials:

Strong acids

Strong oxidizing agents,

Keep away from metals.

Acetaldehyde

Aluminium

Chlorine

Ethylene oxide

Isocyanates

Oxygen

May attack many attack many plastics, rubbers, and coatings.

#### 10.6 Hazardous decomposition products:

In case of fire hazardous decomposition products may be produced such as:

Carbon monoxide (CO) Carbon dioxide (CO<sub>2</sub>)

## Section 11: Toxicological Information

Information on the likely routes of exposure:

#### 11.1 Information on toxicological effects:

#### A. Acute toxicity:

Acute oral toxicity:

LD50: 50.45 mg/kg Species: Rat

Acute inhalation toxicity:

LC50: 16,000 ppm Species: Rat

Acute dermal toxicity:

LD50: 12,800 mg/kg Species: Rabbit

#### B. Skin corrosion/irritation:

Skin irritation:

Result: Slight irritation Species: Rabbit

C. Serious eye damage/irritation: Eye irritation:

Result: Severe eye irritation Species: Rabbit

#### D. Respiratory or skin sensitization:

No data available.

#### E. Germ cell mutagenicity:

No data available.

#### F. Carcinogenicity:

**IARC:** Group 3: Not classifiable as to its carcinogenicity to humans.

NTP: No component of the product present at levels greater or equal to 0.1% is identified as

a known or anticipated carcinogen by NTP.

**OSHA:** No component of the product present at levels greater or equal to 0.1% is identified as

a known or anticipated carcinogen by OSHA.

#### G. Reproductive toxicity:

TDLo: Oral, rat 8 g/kg female 6-15 days after conception

Toxic effects: Fetotoxicity (except death) – e.g. stunted fetus

TDLo: Inhalation, rat 3500 ppm/7H female 1-19 days after conception

Toxic effects: Fetotoxicity (except death) – e.g. stunted fetus

TDLo: Inhalation, rat 10,000 ppm/7H female 1-19 days after conception

Toxic effects: Fertility – pre-implantation mortality (e.g. reduction in number of

implants per female)

Toxic effects: Reproductive – effects on Embryo or Fetus – fetal death

TDLo: Inhalation, rat 7000 ppm/7H female 1-19 days after conception

Toxic effects: Specific Developmental Abnormalities – musculoskeletal system

TDLo: Oral, rabbit 6240 mg/kg female 6-18 days after conception

Toxic effects: Maternal Effects – other effects

#### H. STOT-single exposure:

Specific target organ toxicity- single exposure Central nervous system

#### I.. STOT-repeated exposure:

Specific target organ toxicity – repeated exposure Nerves., Kidney, Cardiovascular system, Gastrointestinal tract, Liver

#### J. Aspiration hazard:

No data available.

Additional information: RTECS # NT8050000.

## Section 12: Ecological Information

#### 12.1 Ecotoxicity:

Toxicity to fish:

LC50: >5 g/l, 24H Species Carassius auratus (goldfish)

LC50: 8,970 mg/l, 48H Species: Leuciscus idus (golden orfe)

LC50: 10,4000 mg/l, 96 H Species: Pimephales promelas (fathead minnow)

Toxicity to daphnia and other aquatic invertebrates:

EC50: > 100 mg/l, 48H Species: Daphnia magna (Water flea)

Toxicity to algae:

LC50: >2,000 mg/l, 72H Species: Desmodesmus subspicatus (green algae)

Toxicity to bacteria:

EC50: 35,390 mg/l,5 min Species: Photobacterium phosphoreum

#### 12.2 Persistence and degradability:

Biodegradability:

Biochemical Oxygen Demand (BOD) – Biochemical oxygen demand within 5 days:

Value: 58%

#### 12.3 Bio-accumulative potential:

Additional ecological information"

Accumulation in aquatic organisms is unlikely.

#### 12.4 Mobility in soil:

No data available.

#### 12.5 Results of PBT and vPvB assessment:

No data available.

#### 12.6 Other adverse effects:

No data available.

## Section 13: Disposal Considerations

#### 13.1 Waste treatment methods:

Dispose of contents/ container in accordance with local, state, and federal regulations.

## Section 14: Transport Information

DOT

UN#: UN1263 Paint Related Material Flammable Liquid

Packing Group: III

IATA

UN#: UN1263 Paint Related Material Flammable Liquid

Packing Group: III

Hazard Labels: 3

EmS Number: F-E, S-D

Marine pollutant: no

## Section 15: Regulatory Information

#### 15.1 Safety, health and environmental regulations/ legislation specific for the substance or mixture:

#### **U.S. Government Regulations:**

TSCA:

Isopropanol CAS # 67-63-0 is on the TSCA Active Inventory List.

#### SARA 302 Components:

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

#### SARA 313 Components:

The following components are subject to reporting levels established by SARA Title III, Section 313: Isopropanol CAS # 67-63-0

#### SARA 311/312 Hazards:

Fire Hazard

Acute Health Hazard Chronic Health Hazard

#### California Prop. 65:

This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

#### Massachusetts RTK:

Isopropanol, CAS # 67-63-0, is on the list.

#### New Jersey RTK:

Isopropanol, CAS # 67-63-0, is on the list.

#### Pennsylvania RTK:

Isopropanol, CAS # 67-63-0, is on the list.

#### International Regulations:

#### CANADA:

#### WHMIS Classification:

B2: Flammable liquid

D2B: Toxic Material Causing Other Toxic Effects

This product has been classified according to the hazard criteria of the CPR and the SDS contains all of the information required by the CPR.

Canadian Environmental Protection Act (CEPA), Domestic Substances List DSL:

All components of this product are on the Canadian DSL.

#### AUSTRALIA:

Industrial Chemical (Notification and Assessment) Act:
On the inventory, or in compliance with the inventory.

#### JAPAN:

Kashin-Hou Law List:

On the inventory, or in compliance with the inventory.

#### KOREA:

Toxic Chemical Control Law (TCCL) List:

On the inventory, or in compliance with the inventory. KE-29363

#### PHILIPPINES:

The Toxic Substances and Hazardous and Nuclear Waste Control Act: On the inventory, or in compliance with the inventory.

#### CHINA:

Inventory of Existing Chemical Substances:

On the inventory, or in compliance with the inventory.

#### **NEW ZEALAND:**

NZIOC:

On the inventory, or in compliance with the inventory.

15.2 Chemical Safety Assessment: A Chemical Safety Assessment has not been carried out.

Date of Preparation: 30 July 2019

#### Abbreviations and acronyms

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

CMRG: Chemical Manufacturer's Recommended Guidelines

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

AIHA: American Industrial Hygiene Association

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bio-accumulative and Toxicological vPvB: very Persistent and very Bio-accumulative NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety Health ATE: Acute Toxicity Estimates TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit STEL: Short Term Exposure Limit

CEIL: Ceiling

TSCA: Toxic Substances Control Act (USA)
DSL: Domestic Substances List (Canada)

PICCS: Philippine Inventory of Chemicals and Chemical Substances

ENCS: Existing and New Chemical Substances (Japan)

AICS: Australian Inventory of Chemical Substances

IECSC: Inventory of Existing Chemical Substances in China

**KECL**: Korea Existing Chemicals List

#### Section 16: Other Information

#### **Disclaimer of Liability:**

Caution! Do not use SPI Supplies products or materials in applications involving implantation within the body; direct or indirect contact with the blood pathway; contact with bone, tissue, tissue fluid, or blood; or prolonged contact with mucous membranes. Products offered by SPI Supplies are not designed or manufactured for use in implantation in the human body or in contact with internal body fluids or tissues. SPI Supplies will not provide to customers making devices for such applications any notice, certification, or information necessary for such medical device use required by US FDA (Food and Drug Administration) regulation or any other statute. SPI Supplies and Structure Probe, Inc. make no representation, promise, express warranty or implied warranty concerning the suitability of these materials for use in implantation in the human body or in contact with internal body tissues of fluids.

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### SAFETY DATA SHEET

1. Product and Company Identification

Product Name OZ CLEAN

Product Number 3CB
Product Type Mixture

Product UseOzone compatible carpet cleaner.ManufacturerCFR, A Division of Tacony Corporation

3101 Wichita Court

Fort Worth, TX 76140-1710

Company Contact 1-800-533-2557 or website <u>www.cfrcorp.com</u>

**Emergency Telephone Number** 1-800-270-5201

#### 2. Hazards Identification

#### GHS Classification in accordance with 29CFR 1910 OSHA HCS

Skin corrosion/irritation, (Category 3) H316

Serious eye damage/eye irritation, (Category 2B) H320

Chronic aquatic toxicity, (Category 4) H413

#### GHS Label elements, including precautionary statements

Pictogram None required

Signal Word Warning

**Hazard Statements** 

H316 Causes mild skin irritation. H320 Causes eye irritation.

H413 May cause long lasting harmful effects to aquatic life.

**Precautionary Statements** 

**Prevention** 

P264 Wash and rinse hands and exposed skin after handling concentrated product.

P273 Avoid release to the environment.

Response

P332+P313 If skin irritation occurs, get medical attention.

P305+P351+P338 IF IN EYES, Rinse cautiously with water for several minutes. Remove contact

lenses if present and easy to do. Continue rinsing.

P337+P313 If eye irritation persists, get medical attention.

Storage/Disposal

P501 Dispose of contents/container in accordance with local, regional and federal

regulations

### 3. Composition/Information on Ingredients

The criteria for listing components in this section are: Ingredients that meet the criteria for carcinogenic, toxic to reproduction, or specific target organ toxicity and components otherwise considered hazardous according to OSHA which exceed the cut off limits for SDS specified by the criteria for mixtures are listed . Non hazardous components are not listed. This is not a composition disclosure. Exact percentages are considered proprietary and a trade secret.

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<b>Hazardous Components</b>	CAS#	Classification	%
Sodium Bicarbonate	533-96-0	H320	1-10%
Tetrapotassium pyrophosphate	7320-34-5	H315, H319, H413	1-5%
Sodium Carbonate	497-19-8	H320	1-5%

#### 4. First Aid Measures

**Description of First Aid Procedures** 

In case of Eye Contact Flush with cool running water for 15 minutes. If irritation persists, get medical

attention.

In case of Skin Contact Flush with cool water, Wash with soap and water, If irritation persists, get medical

Attention.

If Inhaled If symptoms develop, move to fresh air. If symptoms persist, get medical attention If Ingested

Rinse mouth with water. Drink one or two glasses of water. Do not induce vomiting. Obtain medical attention. Never give anything by mouth to an

unconscious person.

.Notes to Physician Symptoms may be delayed.

General advice Seek medical attention if feeling unwell. Show the SDS to the physician in

attendance.

#### 5. Fire-fighting Measures

Flammable properties

**Extinguishing media** Treat for surrounding material.

**Protection of firefighters** Firefighters should wear protective clothing including self contained breathing

Not flammable

**Hazardous combustion products** 

May include and not limited to oxides of carbon and oxides of sulfur. Unusual Fire, Explosion hazards

None known.

#### 6. Accidental Release Measures

Keep unnecessary personal away. Do not touch or walk through spilled material. Personal precautions

Do not touch damaged containers or spilled containers unless wearing protective

Clothing. Stay upwind of spills or leaks.

Methods for containment

Methods for cleaning up

Stop leak if you can do so without risk. Prevent entry into waterways, sewers. Before attempting clean up refer to hazard data given above. Small spills may be absorbed with non reactive absorbent and placed in suitable, covered, labeled

containers. Prevent large spills from entering sewers or water ways. Dike spill. Absorb spill with non reactive absorbent and place in a suitable, covered, labeled

container for disposal. Never return spill to original container for reuse.

**Environmental Preautions** Avoid release to the environment.

## 7. Handling and Storage

**Precautions for Safe Handling Conditions for Safe Storage** 

Use good industrial hygiene practices when handling this material

Keep out of reach of children. Keep from freezing, store in a cool dry place

away from incompatible materials.

## 8. Exposure Controls and Personal Protection

Exposure limits						
Ingredients	CAS-No	OSHA PEL	ACGIH TLV			
Sodium bicarbonate	533-96-0	15 mg/m <sup>3</sup> total dust, 5r	ng/m <sup>3</sup> (resp. fraction)Not established			
Sodium carbonate	497-19-8	Not established	Not established			
Tetrapotassium pyrophosphate	7320-34-5	Not established	Not established			

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**Engineering controls** 

Personal protective equipment

Eye/Face protection Wear safety glasses with side shields if splash conditions exist.

Hand protection Rubber or nitrile gloves.

Skin and body As required by employer code.

**Respiratory protection**Use a NIOSH approved respirator when exposure guidelines are exceeded. **General hygiene considerations**Handle in accordance with good industrial hygiene practices. Do not eat or drink

General ventilation normally adequate

when using product. Wash hands well before breaks and immediately after

handling the product.

### 9. Physical and Chemical Properties

Information on basic physical and chemical properties

Clear liquid Appearance/form Color Colorless Odor Characteristic Odor threshold Not established 9.0-9.2 (Concentrate) Melting point/freezing point Not established **Initial Boiling point** > 212° F. ( 100° C.) Flash point Not established **Evaporation rate** Not established **Flammability** Not flammable Upper/lower flammability or Not applicable

**Explosive limits** 

Vapor pressure

Vapor density

Specific gravity/density

Solubility in water

Partition coefficient:

Auto ignition temperature

Decomposition temperature

Not established

Not established

Not established

Not established

**Stability and Reactivity** Stable and non reactive under normal use and storage conditions.

**VOC** < 1%

% Volatile Approx. 85%

Other safety Information

#### 10. Stability and Reactivity

**Reactivity**Not reactive under normal use and storage. **Chemical Stability**Stable under normal storage conditions.

**Hazardous reactions** None known.

**Conditions to avoid Incompatible materials**Do not mix with other chemicals.
Strong acids and oxidizers.

Hazardous decomposition products May include but not limited to oxides of carbon, and oxides of sulfur.

**Hazardous polymerization** Will not occur.

#### 11. Toxicological Information

Ingredients LC5

Sodium bicarbonate > 5.03 mg/1 4 hours - inhalation rat

Sodium carbonate 800 mg/m<sup>3</sup> inhalation guinea pig, 1150 mg/m<sup>3</sup> inhalation rat

Tetrapotassium pyrophosphate No data available

Ingredients LD50

Sodium bicarbonate 5600 mg/kg (Oral-rat)

Sodium carbonate 2800 mg/kg (Oral-rat) , > 2000 mg/kg (Dermal-rabbit)
Tetrapotassium pyrophosphate > 1000 mg/kg (Oral-rabbit), 4640 mg/kg (Dermal-rabbit)

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Effects of acute exposure

Causes eye irritation Eye Skin Causes mild irritation. Inhalation

Not normally a route of entry.

May be harmful if swallowed. May cause stomach distress, nausea, or vomiting. **Ingestion** 

**Sensitization** No data available.

Chronic effects of short and long

term exposure Does not contain ingredients considered carcinogenic by NTP, IARC, or OSHA.

Carcinogenicity Mutagenicity No data available. Reproductive effects No data available. **Teratogenicity** No data available.

12. Ecological Information

Components of this product have been identified as having potential **Eco-toxicity** 

environmental concerns.

**Environmental effects** 

**Aquatic toxicity** 

No data available.

LC50 Fish (Lepomis macrochirus): 300 mg/L (static) 96 hour Sodium carbonate

EC50 Akgae (Nitzschia): 242mg/L 120 hour

Persistence and Degradability The alkalinity of the phosphate may be reduced in natural waters, but the resulting

phosphate may persist indefinitely or incorporate into biological systems.

Prolonged exposure to skin may cause drying, defatting and irritation.

Bioaccumulation/accumulation

**Partition coefficient** 

Mobility in environmental media

**Chemical fate information** Other adverse effects

No data available. No data available. No data available.

No data available. No data available.

13. Disposal Considerations

**Disposal instructions** 

Wastes from residues/unused

**Product** 

Contaminated packaging

Dispose in accordance with local, state, and federal regulations

Containerize. Rinse area with water. Keep out of storm sewer/waterways.

Dispose in accordance with all applicable regulations.

14. Transport Information

**Basic shipping requirements:** 

Proper shipping name

Hazard class **UN** number Packing group **Special provisions**  Not DOT regulated

15. Regulatory Information

This product has been classified in accordance with the Occupational Safety and **U.S** federal regulations

Health Administration hazard criteria and the SDS contains all of the

information required by OSHA HCS 2012.

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TSCA All ingredients are listed on the Toxic Substances Control Act or are exempt from

listing.

CERCLA Super Fund 40CFR117.302Product contains a material with a Reportable Quantity (RQ):

None

SARA Title III Section 311&312 Immediate (Acute) Health Hazard

Sodium carbonate

**SARA Title III Section 313** Ingredients subject to the reporting requirements of Section 313:

None

California Proposition 65 This product does not contain intentional ingredients known to the State of

California to cause cancer, birth defects or reproductive effects.

**States Right to Know** Reportable Chemicals:

None

**Inventory Status** 

Countries Inventory Name On Inventory (Yes/No)\*

U.S. Chemical Inventory List Yes
Canada Domestic substances list Yes

• A õYesö indicates that all of the components of this product comply with the inventory requirements administered by the governing country(s) listed.

## 16. Other Information

#### **HMIS RATING**

**HMIS LEGEND** 

Severe 4
Serious 3
Moderate 2
Slight 1
Minimal

Health
I
Flammability 0
Reactivity 0
Personal Protection B

**Disclaimer** 

To the best of our knowledge, the information included herein is accurate.

However, neither the above named supplier nor any of its subsidiaries assume any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of the suitability of any material is the responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that

these are the only hazards that exist.

**Issue date** March 10, 2014 **Supersedes date** Previous issues.

**Reason for update** Conform to GHS OSHA HCS 2012.

**Expiration date** March 10, 2017

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#### **Hazardous Substance, Dangerous Goods**



#### 1. MATERIAL AND SUPPLY COMPANY IDENTIFICATION

Product Name Peel Away 1

Product Code : PA1

**Product Use:** As a high quality water based caustic paint stripper for interior/exterior use for removing

alkyd based paints from wood, bricks, cast iron and fibreglass.

Company Name: Haymes Paint ABN: 14 004 201 638

Address: Waringa Drive, Wendouree Industrial Park, Victoria 3355, Australia.

Emergency Telephone: 03 5342 6200 . Office Hours: 7-30 to 5-30 Monday to Friday.

Telephone Number/Fax: Tel: 03 5342 6200 . Office Hours: 7-30 to 5-30 Monday to Friday.

#### 2. HAZARDS IDENTIFICATION

GHS Classification: This material is hazardous according to health criteria of Safe Work Australia. HAZARDOUS

SUBSTANCE.

#### **Hazard Pictograms:**







Corrosion

Exclamation mark

Health hazard

SIGNAL WORD: Danger

**Hazard Classification:** Corrosive to metals - Category 1

Skin corrosion - Category 1A
Eye irritation - Category 1

Respiratory sensitiser - Category 1A

Specific Target Organ Toxicity (Single Exposure) - Category 3

Hazard Statement(s): H290 : May be corrosive to metals.

H314: Causes severe skin burns and eye damage.

H318: Causes serious eye damage.

H334: May cause allergy, or asthma symptoms, or breathing difficulties if inhaled.

H335: Exposure via inhalation may cause respiratory irritation.

Precautionary Statement(s):

**Prevention:** P102: Keep out of reach of children.

P103: Read label before use.

P260 : Do not breathe dust/fumes/gas/mist/vapours/spray.

P261: Avoid breathing mist, vapours or spray.
P264: Wash exposed skin thoroughly after handling.
P271: Use only outdoors or in a well-ventilated area.

P280: Wear eye protection/face protection.

P285 : In case of inadequate ventilation wear respiratory protection.

**Response:** P301+330+331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303+350+351: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse

skin with water/shower.

P363: Wash contaminated clothing before reuse.

P304+340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for

breathing.

P310: Immediately call a POISON CENTRE or doctor/physician.

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**Response continued:** P321 : Specific treatment (see First Aid Measures on this SDS).

P305+351+338: IF IN EYES, rinse cautiously with water for several minutes. Remove contact lenses if

present and easy to do. Continue rinsing.

P342+311: If experiencing respiratory symptoms: Call a POISON CENTRE or doctor/physician.

P312: Call a POISON CENTRE or doctor/physician if you feel unwell.

**Storage:** P403+233: Store in a well ventilated place. Keep container tightly closed.

P405: Store locked up.

**Disposal:** P501: Dispose of contents/container in accordance with local, regional, national, international

regulations.

SUSMP Poisons Schedule: S6 Poison

Dangerous Goods Classification: Classified as Dangerous Goods by the criteria of the "Australian Code for the Transport of

Dangerous Goods by Road and Rail".

Class 8 Corrosive liquid

### 3. COMPOSITION INFORMATION

Chemical Entity	CAS NO	Proportion
Calcium hydroxide	1305-62-0	15 - 25 %
Sodium hydroxide	1310-73-2	5 - 15 %
Ingredients determined not to be hazardous:	-	Balance
		100%

#### 4. FIRST AID MEASURES

If poisoning occurs, contact a doctor or Poisons Information Centre (Phone Australia 131 126).

Inhalation: Remove victim from exposure. Remove contaminated clothing and loosen remaining

clothing. Allow patient to assume most comfortable position and keep warm. Keep at rest

until fully recovered. Seek medical advice if effects persist.

**Skin:** For gross contamination, immediately drench with water and remove clothing. Continue to

flush skin and hair with plenty of water (and soap if material is available). If swelling, rednes,

blistering, or irritation occurs seek immediate medical assistance.

Eye: If in eyes, hold eyelids apart and rinse the eyes continuously with running water. Remove

contact lenses if present and easy to do. Continue rinsing for several minutes until all contaminants are washed out completely. Immediately call a doctor. Continue rinsing.

**Ingestion:** If swallowed rinse mouth. Do NOT induce vomiting. Call a Poisons information Centre or

doctor if you feel unwell.

Symptoms and effects that may arise if the product is mishandled and overexposure occurs are :

**Inhalation :** Breathing difficulties, irritation, coughing.

**Skin contact :** Burning pain, irritation, redness.

**Eye contact :** Burning pain, irritation, watering, redness.

Ingestion: Vomiting, dizziness, convulsions, abdominal pains and diarrhea.

Advice to First Aiders: Be aware of the material(s) involved, and wear protective equipment if there is a risk of

inhalation or skin and eye contamination.

**First Aid Facilities :** Eye wash and normal washroom facilities.

Advice to Doctor : Treat symptomatically.

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#### **5. FIRE-FIGHTING MEASURES**

Hazchem Code: 2X

**Suitable extinguishing media:** Use water fog to cool containers and prevent rupture and explosion by internal expansion.

**Specific hazards:** Product is a caustic water based paste which does not sustain combustion. It can react with

metals such as zinc, aluminium and tin and acids causing the generation of heat and possible explosions. Water diluted product from heat ruptured containers is also reactive. Spattered residues from an explosion will cause skin and eye burns.

Fire fighting further advice : Fire fighters to wear self-contained breathing apparatus and suitable protective clothing if

risk of exposure to products of decomposition. Prevent any possible contamination of

drains and waterways.

#### **6. ACCIDENTAL RELEASE MEASURES**

Small Spills: Wear protective equipment to prevent skin and eye contamination. Avoid inhalation of

vapours. Wipe up with absorbent (clean rag or paper towels). Collect and seal in properly

labelled containers or drums for disposal.

Large Spills: Shut off all possible sources of ignition. Clear area of all unprotected personnel. Prevent

further leakage or spillage if safe to do so. Slippery when spilt. Avoid accidents, clean up immediately. Wear protective equipment to prevent skin and eye contamination and the inhalation of vapours. Work up wind or increase ventilation. Contain - prevent run off into drains and waterways. Use absorbent (soil, sand or other inert material). Use a spark free

shovel. Collect and seal in properly labelled containers or drums for disposal. If contamination of sewers or waterways has occurred advise local emergency services.

Dangerous Goods - Initial Emergency Response Guide No: 37

#### 7. HANDLING AND STORAGE

**Handling:** Avoid skin and eye contact and inhalation of vapour, mist or aerosols.

**Storage:** Store in a cool, dry, well-ventillated place and out of direct sunlight. Store away from

incompatible materials described in Section 10. Keep containers closed when not in use.

Check regularly for leaks.

This material is described as a Dangerous Good Class 8 Corrosive Liquid as per the criteria of the Australian Dangerous Goods Code and must be stored in accordance with the relevant

regulations.

This material is a Scheduled Poison S6 and must be stored, maintained and used in

accordance with the relevant regulations.

#### 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

**Control Parameters:** No value assigned for this specific product by Safe Work Australia. However, Workplace

Standard(s) for constituent(s) are:

Chemical Entity TWA STEL Carcinogen Catergory Notices

ppm mg/m3 ppm mg/m3

Calcium hydroxide - 5 - - - - -

Sodiun hydroxide - 2 Peak limitation - -

As published by Safe Work Australia

TWA - the time-weighted average airborne concentration over an eight-hour working day, for a five-day working week over an entire working life.

STEL (Short Term Exposure Limit) - the average airborne concentration over a 15-minute period, which should not be expected at any time during a normal eight-hour workday.

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These Exposure Standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept to as low a level as is workable. These exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity.

If directions for use are followed, exposure of individuals using the product should not exceed the above standard. The standard was created for workers who are routinely, potentially exposed during product manufacture.

Ensure ventilation is adequate and that air concentrations are controlled below quoted

Workplace Exposure Standards. Close with lid when not in use.

**Personal** 

protection equipment: OVERALLS, SAFETY SHOES, CHEMICAL GOGGLES, GLOVES.

Wear overalls, safety glasses and impervious gloves. Use with adequate ventilation. If inhalation risk exists wear organic vapour/particulate respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716. Available information suggests that gloves made from nitrile rubber should be suitable for intermittent contact. However, due to variations in glove construction and local conditions, the user should make a final assessment.

Hygiene measures: Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated

clothing and other protective equipment before storing or re-using.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance** White viscous paste.

Odour: Slight

Odour Threshold :Not AvailableSolubility :Soluble in water.

**Specific Gravity (20 °C)**: 1.2 - 1.5

Relative Vapour Density (air=1):

Vapour Pressure (20 °C):

Flash Point (°C):

Flammability Limits (%):

Autoignition Temperature (°C):

Melting Point/Range (°C):

Approximately 1

As for water

Not Applicable

Not Applicable

Not Applicable

Boiling Point/Range (°C): 100°C

**Decomposition Point (°C):**Not Available

pH:

10-12

Viscosity (Kinematic @ 40 °C):

Not Available

Total VOC (g/litre):

Not Available

#### 10. STABILITY AND REACTIVITY

**Reactivity:** The solution in water is a strong base, it reacts violently with acid and is

corrosive.

**Chemical stability:** Stable under normal conditions.

**Hazardous reactions:** Addition of chemicals such as acids may cause the generation of heat and

possible explosion.

**Conditions to avoid :** Contact with incompatible materials.

Incompatible materials:

Do not put into contact with metals such as aluminium, zinc or tin.

Will recent with aluminium to produce budges and produce and produce

Hazardous decomposition products : Will react with aluminium to produce hydrogen which is flammable and

explosive.

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#### 11. TOXICOLOGICAL INFORMATION

Information on toxicological effects:

Acute toxicity - Inhalation : Insufficient information available for classification.

Acute toxicity - Skin contact : Insufficient information available for classification.

Acute toxicity - Ingestion: This product has been classified as Non-hazardous. Acute Toxicity Estimate based on

ingredients: LD50 > 2000 mg/kg.

**Skin corrosion/irritation:** This product is classified as a Category 1A Hazard. Causes severe skin burns and eye

damage.

Serious eye damage/irritation: This product is classified as a Category 1 Hazard. Causes serious eye damage.

**Respiratory Sensitisation:** This product is classified as a Category 1A Hazard. May cause allergy, or asthma symptoms,

or breathing difficulties if inhaled.

**Skin Sensitisation:** This product has been classified as Non-hazardous. **Aspiration hazard:** This product has been classified as Non-hazardous.

Specific target organ toxicity

( single exposure ): This product is classified as a Category 3 Hazard. Exposure via inhalation may effect the

respiratory tract.

**Chronic Toxicity:** 

Mutagenicity:This product has been classified as Non-hazardous.Carcinogenicity:This product has been classified as Non-hazardous.Reproductive toxicity:This product has been classified as Non-hazardous.Specific target organ toxicityThis product has been classified as Non-hazardous.

(repeat exposure):

Likely routes of exposure:

Routes of entry anticipated: Inhalation. skin and eye.

No adverse health effects expected if material is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

Potential acute health effects:

**Inhalation :** May cause allergy, or asthma symptoms, or breathing difficulties if inhaled. May cause

respiratory irritation.

**Skin contact:** Corrosive to skin - may cause skin burns. Contact with skin will result in severe irritation.

**Eye contact :** Corrosive to eyes. Risk of serious damage to eyes.

Ingestion: Chemical burns of the digestive tract.

Symptoms related to the physical, chemical and toxicological characteristics:

**Inhalation :** Breathing difficulties, irritation, coughing.

**Skin contact:** Burning pain, irritation, redness.

**Eye contact :** Burning pain, irritation, watering, redness.

**Ingestion:** Vomiting, dizziness, convulsions, abdominal pains and diarrhea.

Delayed and immediate effects and also chronic effects from short and long term exposure :

**Inhalation :** No information available for this product.

**Skin contact :** Prolonged or repeated contact can lead to irritation and/or irritant contact dermatitis.

Eye contact: Permanent eye damage, including loss of sight, may occur.

**Ingestion :** No information available for this product.

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#### 12. ECOLOGICAL INFORMATION

Avoid contaminating drains and waterways.

Acute aquatic hazard : No information available to complete an assessment.

Long-term aquatic hazard : No information available to complete an assessment.

Ecotoxicity :No information available.Persistence and degradability :No information available.Bioaccumulative potential :No information available.Mobility :No information available.

#### 13. DISPOSAL CONSIDERATIONS

Persons conducting disposal, recycling or reclamation activities should ensure that appropriate personal protection equipment is used, see "Section 8. Exposure Controls and Personal Protection" of this SDS.

If possible material and its container should be recycled. If material or container cannot be recycled dispose in accordance with local, regional, national and international regulations.

#### 14. TRANSPORT INFORMATION

**Road and Rail Transport :** Classified as Dangerous Goods by the criteria of the "Australian Code for the Transport of

Dangerous Goods by Road and Rail".

UN number: 3266
Dangerous Goods Class: 8
Packing Group: II
Hazchem Code: 2X
Emergency Response Guide No: 37

Proper Shipping Name: CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.

Segregation Dangerous Goods: Not to be loaded with explosives (Class 1), dangerous when wet (Class 4.3), oxidising

agents ( Class 5.1 ), organic peroxides ( Class 5.2 ), if the Class 6 dangerous goods are cyanides - ( Class 6 ), radioactive substances ( Class 7 ), any Class 8 strong alkalis, foodstuffs

or food packaging, however exemptions may apply.

Marine Transport: Classified as Dangerous Goods by the criteria of the International Maritime Dangerous

Goods Code (IMDG) Code) for transport by sea.

UN number: 3266
Dangerous Goods Class: 8
Packing Group: II
Hazchem Code: 2X
Emergency Response Guide No: 37

Proper Shipping Name: CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.

Air Transport : Classified as Dangerous Goods by the criteria of the International Air Transport Association

(IATA) Dangerous Goods Regulations for transport by air.

UN number: 3266
Dangerous Goods Class: 8
Packing Group: II
Hazchem Code: 2X
Emergency Response Guide No: 37

**Proper Shipping Name :** CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.

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#### 15. REGULATORY INFORMATION

#### This product/constituent(s) is/are covered by the following requirements:

This material is hazardous according to health criteria of Safe Work Australia. HAZARDOUS SUBSTANCE.

Classified as Dangerous Goods by the criteria of the "Australian Code for the Transport of Dangerous Goods by Road and Rail".

The Standard for the Uniform Scheduling of Medicines and Poisons No. 7.

S6 Poisor

All the constituents of this product are listed on the Australian Inventory of Chemical Substances (AICS), or exempted.

#### 16. OTHER INFORMATION

This Safety Data Sheet has been prepared by Haymes Paint Technical Department.

**Reason(s) for issue :** Amended Transport Information.

Literature References: Globally Harmonised System of Classification and labelling of Chemicals (GHS), 3rd revised

edition, United Nations, 2009.

Guidance on the Classification of Hazardous Chemicals under the WHS Regulations - Implementation of the Globally Harmonised System of Classification and Labelling of

Chemicals (GHS) - Safe Work Australia. Australian Inventory of Chemical Substances. European Chemicals Agency (ECHA).

This SDS summarises at the date of issue our best knowledge of the health and safety hazard information of the product, and in particular how to safely handle and use the product in the workplacve. Since Haymes Paint cannot anticipate or control the conditions under which the product may be used, prior to usage, review the SDS in the context of how the user intends to handle and use the product in the workplace.

If clarification or further information is needed to ensure that an appropriate assessment can be made, the user should contact this company.

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Issued : 15/2/18
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Revision Date 08/31/2015 Version 3.0 Print Date 09/17/2015

#### **SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**

Material name : ARAMSCO RAM-TACK SPRAY ADHESIVE

00000000001004306 / A06639 Material number

Manufacturer or supplier's details

: ARAMSCO Company

1480 Grandview Avenue Address

Paulsboro, NJ 08066

: 800-767-6933 Telephone

**Emergency telephone numbers** 

For SDS Information 800-767-6933

For a Medical Emergency

For a Transportation CHEMTREC:800-424-9300

**Emergency** 

#### **SECTION 2. HAZARDS IDENTIFICATION**

#### **Emergency Overview**

Appearance	Aerosol containing a liquefied gas
Colour	tan
Odour	solvent-like

#### **GHS Classification**

Flammable aerosols : Category 1 Gases under pressure : Liquefied gas Skin irritation : Category 2 Eve irritation : Category 2A

single exposure

Specific target organ toxicity - : Category 3 (Central nervous system)

#### **GHS Label element**

Hazard pictograms







Signal word

Hazard statements : H222 Extremely flammable aerosol.

H280 Contains gas under pressure; may explode if heated.

H315 Causes skin irritation.

H319 Causes serious eye irritation. H336 May cause drowsiness or dizziness.

Prevention: Precautionary statements

P210 Keep away from heat/sparks/open flames/hot surfaces.

No smoking.

Version 3.0 Revision Date 08/31/2015 Print Date 09/17/2015

P211 Do not spray on an open flame or other ignition source. P251 Pressurized container: Do not pierce or burn, even after use.

P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

P264 Wash skin thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

P280 Wear eye protection/ face protection.

P280 Wear protective gloves.

#### Response:

P302 + P352 IF ON SKIN: Wash with plenty of soap and water. P304 + P340 + P312 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/ physician if you feel unwell. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P332 + P313 If skin irritation occurs: Get medical advice/ attention.

P337 + P313 If eye irritation persists: Get medical advice/ attention.

P362 Take off contaminated clothing and wash before reuse.

#### Storage:

P405 Store locked up.

P410 + P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F.

#### Disposal:

Dispose of contents/container in accordance with local regulation.

#### **Potential Health Effects**

Carcinogenicity:

IARC No component of this product present at levels greater than or

equal to 0.1% is identified as probable, possible or confirmed

human carcinogen by IARC.

ACGIH No component of this product present at levels greater than or

equal to 0.1% is identified as a carcinogen or potential

carcinogen by ACGIH.

OSHA No component of this product present at levels greater than or

equal to 0.1% is identified as a carcinogen or potential

carcinogen by OSHA.

NTP No component of this product present at levels greater than or

equal to 0.1% is identified as a known or anticipated carcinogen

by NTP.

#### **SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

#### Hazardous components

Chemical Name	CAS-No.	Concentration [%]
propane	74-98-6	>= 20 - < 30
acetone	67-64-1	>= 20 - < 30
butane	106-97-8	>= 10 - < 20
Naphtha (petroleum), hydrotreated light	64742-49-0	>= 10 - < 20
methyl acetate	79-20-9	>= 5 - < 10

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#### **SECTION 4. FIRST AID MEASURES**

General advice : Move out of dangerous area.

Show this safety data sheet to the doctor in attendance.

Do not leave the victim unattended.

If inhaled : If unconscious place in recovery position and seek medical

advice.

Consult a physician after significant exposure.

In case of skin contact : If on skin, rinse well with water.

If on clothes, remove clothes.

Wash off immediately with plenty of water for at least 15

minutes.

In case of eye contact : Rinse immediately with plenty of water for at least 15 minutes.

Remove contact lenses. Protect unharmed eye.

Keep eye wide open while rinsing.

If eye irritation persists, consult a specialist.

If swallowed : Keep respiratory tract clear.

DO NOT induce vomiting unless directed to do so by a

physician or poison control center.

Never give anything by mouth to an unconscious person.

If symptoms persist, call a physician. Take victim immediately to hospital.

#### **SECTION 5. FIREFIGHTING MEASURES**

Suitable extinguishing media : Carbon dioxide (CO2)

Dry chemical Water spray jet

Alcohol-resistant foam

Unsuitable extinguishing

media

: High volume water jet

Specific hazards during

firefighting

: Do not allow run-off from fire fighting to enter drains or water

courses.

Hazardous combustion

products

: Carbon dioxide (CO2)

Carbon monoxide

Smoke

Specific extinguishing

methods

: Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment.

Further information : Collect contaminated fire extinguishing water separately. This

must not be discharged into drains.

Fire residues and contaminated fire extinguishing water must

be disposed of in accordance with local regulations. For safety reasons in case of fire, cans should be stored

separately in closed containments.

Use a water spray to cool fully closed containers.

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Special protective equipment

for firefighters

: Wear self-contained breathing apparatus for firefighting if

necessary.

#### **SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.

Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas.

Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

**Environmental precautions** 

: Prevent product from entering drains.

Prevent further leakage or spillage if safe to do so.

If the product contaminates rivers and lakes or drains inform

respective authorities.

Methods and materials for containment and cleaning up

: Soak up with inert absorbent material (e.g. sand, silica gel,

acid binder, universal binder, sawdust).

Keep in suitable, closed containers for disposal.

#### **SECTION 7. HANDLING AND STORAGE**

Advice on safe handling : Avoid exposure - obtain special instructions before use.

Avoid contact with skin and eyes. For personal protection see section 8. Do not breathe vapours or spray mist.

Take precautionary measures against static discharges. Provide sufficient air exchange and/or exhaust in work rooms. Dispose of rinse water in accordance with local and national

regulations.

Always replace cap after use.

Conditions for safe storage : BEWARE: Aerosol is pressurized. Keep away from direct sun

exposure and temperatures over 50 °C. Do not open by force or throw into fire even after use. Do not spray on flames or

red-hot objects. No smoking.

Keep container tightly closed in a dry and well-ventilated

olace.

Containers which are opened must be carefully resealed and

kept upright to prevent leakage. Observe label precautions.

Electrical installations / working materials must comply with

the technological safety standards.

Materials to avoid : Strong oxidizing agents

#### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters

Components	CAS-No.	Value type	Control	Basis
		(Form of	parameters /	

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		exposure)	Permissible concentration	
propane	74-98-6	TWA	1,000 ppm	ACGIH
properie	74-50-0	TWA	1,000 ppm 1,800 mg/m3	NIOSH REL
		TWA	1,000 ppm 1,800 mg/m3	OSHA Z-1
		TWA	1,000 ppm 1,800 mg/m3	OSHA P0
acetone	67-64-1	TWA	500 ppm	ACGIH
		STEL	750 ppm	ACGIH
		TWA	250 ppm 590 mg/m3	NIOSH REL
		TWA	1,000 ppm 2,400 mg/m3	OSHA Z-1
		TWA	750 ppm 1,800 mg/m3	OSHA P0
		STEL	1,000 ppm 2,400 mg/m3	OSHA P0
butane	106-97-8	TWA	800 ppm 1,900 mg/m3	NIOSH REL
		TWA	800 ppm 1,900 mg/m3	OSHA P0
methyl acetate	79-20-9	TWA	200 ppm	ACGIH
		STEL	250 ppm	ACGIH
		TWA	200 ppm 610 mg/m3	NIOSH REL
		ST	250 ppm 760 mg/m3	NIOSH REL
		TWA	200 ppm 610 mg/m3	OSHA Z-1
		TWA	200 ppm 610 mg/m3	OSHA P0
		STEL	250 ppm 760 mg/m3	OSHA P0

#### **Biological occupational exposure limits**

Component	CAS-No.	Control	Biological	Sampling	Permissible	Basis
		parameters	specimen	time	concentration	
2-PROPANONE	67-64-1	Acetone	Urine	End of	50 mg/l	ACGIH BEI
				shift (As		
				soon as		
				possible		
				after		
				exposure		
				ceases)		

#### Personal protective equipment

Respiratory protection : Use respiratory protection unless adequate local exhaust

ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines.

Hand protection

Remarks : The suitability for a specific workplace should be discussed

with the producers of the protective gloves.

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Eye protection : Ensure that eyewash stations and safety showers are close to

the workstation location.

Safety glasses

Skin and body protection : Impervious clothing

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Hygiene measures : When using do not eat or drink.

When using do not smoke.

Wash hands before breaks and at the end of workday.

#### **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance : Aerosol containing a liquefied gas

Colour : tan

Odour : solvent-like

Odour Threshold : No data available pH : No data available Melting point/freezing point : No data available Boiling point : No data available

Flash point

No data available

Evaporation rate : No data available

Flammability (solid, gas) : Extremely flammable aerosol.

Upper explosion limit : No data available
Lower explosion limit : No data available
Vapour pressure : No data available
Relative vapour density : No data available
Density : 0.853 g/cm3

Solubility(ies)

Water solubility : partly soluble
Solubility in other solvents : not determined

Partition coefficient: n-

octanol/water

: No data available

Auto-ignition temperature : not determined

Thermal decomposition : No data available

Viscosity

Viscosity, kinematic : No data available

Heat of combustion : 40.94 kJ/g

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#### **SECTION 10. STABILITY AND REACTIVITY**

Reactivity : Stable

Chemical stability : Stable under normal conditions.

Possibility of hazardous

reactions

: Vapours may form explosive mixture with air.

No decomposition if stored and applied as directed.

Conditions to avoid : Heat, flames and sparks.

Extremes of temperature and direct sunlight.

Incompatible materials : Strong oxidizing agents

Hazardous decomposition

products

: Carbon dioxide (CO2) Carbon monoxide

#### **SECTION 11. TOXICOLOGICAL INFORMATION**

#### **Acute toxicity**

#### **Components:**

propane:

Acute inhalation toxicity : LC50 Mouse: 1,237 mg/l

Exposure time: 2 h

LC50 Rat: 658 mg/l Exposure time: 4 h

LC50 Rat: 1,355 mg/l

acetone:

Acute oral toxicity : LD50 Rat: 5,800 mg/kg

Acute inhalation toxicity : LC50 Rat: 132 mg/l

Exposure time: 3 h

LC50 Rat: 50.1 mg/l

Acute dermal toxicity : LD50 Guinea pig: > 7,426 mg/kg

LD50 Rabbit: > 7,426 mg/kg

butane:

Acute inhalation toxicity : LC50 Mouse: 1,237 mg/l

Exposure time: 2 h

LC50 Rat: 1,355 mg/l

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#### Skin corrosion/irritation

#### Product:

Remarks: Irritating to skin.

#### Serious eye damage/eye irritation

#### **Product:**

Remarks: Irritating to eyes.

#### Respiratory or skin sensitisation

No data available

#### Germ cell mutagenicity

No data available

#### Carcinogenicity

No data available

#### Reproductive toxicity

No data available

propane:

acetone:

butane:

Naphtha (petroleum), hydrotreated light:

methyl acetate:

#### STOT - single exposure

No data available

### STOT - repeated exposure

No data available

#### **Aspiration toxicity**

No data available

#### **Further information**

#### **Product:**

Remarks: Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting., Concentrations substantially above the TLV value may cause narcotic effects., Solvents may degrease the skin.

#### **SECTION 12. ECOLOGICAL INFORMATION**

#### **Ecotoxicity**

No data available

#### Persistence and degradability

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No data available

Bioaccumulative potential

Product:

Partition coefficient: n-

octanol/water <a href="Components:">Components:</a> <a href="butane">butane</a> :

: Remarks: No data available

Partition coefficient: n-

octanol/water

: Pow: 2.89

Mobility in soil

No data available

Other adverse effects

No data available

Product:

Regulation 40 CFR Protection of Environment; Part 82 Protection of

Stratospheric Ozone - CAA Section 602 Class I

Substances

Remarks This product neither contains, nor was manufactured

with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A

+ B).

Additional ecological

information

: An environmental hazard cannot be excluded in the

event of unprofessional handling or disposal., Toxic to

aquatic life.

#### **SECTION 13. DISPOSAL CONSIDERATIONS**

**Disposal methods** 

Waste from residues : The product should not be allowed to enter drains, water

courses or the soil.

Do not contaminate ponds, waterways or ditches with

chemical or used container.

Dispose of in accordance with local regulations.

Contaminated packaging : Empty remaining contents.

Dispose of as unused product. Do not re-use empty containers.

Do not burn, or use a cutting torch on, the empty drum.

#### **SECTION 14. TRANSPORT INFORMATION**

Transportation Regulation: 49 CFR (USA): ORM-D, CONSUMER COMMODITY

Transportation Regulation: IMDG (Vessel): UN1950, AEROSOLS, 2.1, - Limited quantity

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Transportation Regulation: IATA (Cargo Air):

UN1950, Aerosols, flammable, 2.1, - Limited quantity

Transportation Regulation: IATA (Passenger Air): UN1950, Aerosols, flammable, 2.1, - Limited quantity

Transportation Regulation: TDG (Canada): UN1950, AEROSOLS, 2.1, - Limited quantity

#### **SECTION 15. REGULATORY INFORMATION**

#### **EPCRA - Emergency Planning and Community Right-to-Know Act**

#### **CERCLA Reportable Quantity**

Components	CAS-No.	Component RQ	Calculated product RQ
		(lbs)	(lbs)
acetone	67-64-1	5000	*

<sup>\*:</sup> Calculated RQ exceeds reasonably attainable upper limit.

#### SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards : Acute Health Hazard

Fire Hazard

Sudden Release of Pressure Hazard

SARA 302 : No chemicals in this material are subject to the reporting

requirements of SARA Title III, Section 302.

SARA 313 : This material does not contain any chemical components with

known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

California Prop 65 WARNING! This product contains a chemical known to the

State of California to cause cancer.

benzene 71-43-2

WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive

harm.

toluene 108-88-3 benzene 71-43-2

#### The components of this product are reported in the following inventories:

TSCA On TSCA Inventory

All components of this product are on the Canadian DSL On the inventory, or in compliance with the inventory

NZIoC Not in compliance with the inventory

PICCS On the inventory, or in compliance with the inventory IECSC On the inventory, or in compliance with the inventory

#### **Inventory Acronym and Validity Area Legend:**

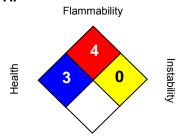
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AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TCSI (Taiwan), TSCA (USA)

#### **SECTION 16. OTHER INFORMATION**

#### **Further information**

#### NFPA:



Special hazard.

#### HMIS III:

HEALTH	3
FLAMMABILITY	4
PHYSICAL HAZARD	2

0 = not significant, 1 = Slight,

2 = Moderate, 3 = High

4 = Extreme, \* = Chronic

#### OSHA GHS Label Information:

Hazard pictograms







Signal word Hazard statements Danger:

Extremely flammable aerosol. Contains gas under pressure; may explode if heated. Causes skin irritation. Causes serious eye irritation. May cause drowsiness or

Precautionary statements

Prevention: Keep away from heat/sparks/open flames/hot surfaces. No smoking. Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use. Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray. Wash skin thoroughly after handling. Use only outdoors or in a well-ventilated area.

Wear eye protection/ face protection. Wear protective gloves.

Response: IF ON SKIN: Wash with plenty of soap and water. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/ physician if you feel unwell. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If skin irritation occurs: Get medical advice/ attention. If eye irritation persists: Get medical advice/ attention. Take off contaminated clothing and wash before

Storage: Store locked up. Protect from sunlight. Do not expose to temperatures

exceeding 50 °C/ 122 °F.

Disposal: Dispose of contents/container in accordance with local regulation.

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We believe the statements, technical information and recommendations contained herein are reliable, but they are given without warranty or guarantee of any kind. The information in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. Users should make their own investigations

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to determine the suitability and applicability of the information for their particular purposes. This SDS has been prepared by the Compliance Services organization supporting this manufacturer, supplier or distributor.

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# Safety Data Sheet



\* Trusted Quality Since 1921 \* www.rustoleum.com

#### 1. Identification

Product Name: ICWB LSPR 12PK FLUORESCENT ORANGE Revision Date: 8/7/2018

MARKNG

Product Identifier: 203036 Supercedes Date: 3/14/2018

Recommended Use: Marking Paint/Alkyd

Supplier: Rust-Oleum Corporation Manufacturer: Rust-Oleum Corporation

11 Hawthorn Parkway
Vernon Hills, IL 60061

11 Hawthorn Parkway
Vernon Hills, IL 60061

Vernon Hills, IL 60061

USA

Rust-Oleum Canada (ROCA) 200 Confederation Parkway Concord, ON L4K 4T8

Canada

**USA** 

Emergency Phone: 800-387-3625

Preparer: Regulatory Department

**Emergency Telephone:** 24 Hour Hotline: 847-367-7700

#### 2. Hazard Identification

#### Classification

Symbol(s) of Product







#### Signal Word Danger

### Possible Hazards

29% of the mixture consists of ingredient(s) of unknown acute toxicity.

#### **GHS HAZARD STATEMENTS**

Flammable Aerosol, category 1 H222 Extremely flammable aerosol.

Compressed Gas H280 Contains gas under pressure; may explode if heated.

Carcinogenicity, category 2 H351 Suspected of causing cancer.

STOT, repeated exposure, category 2 H373 May cause damage to organs through prolonged or repeated exposure.

# GHS LABEL PRECAUTIONARY STATEMENTS

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P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P211 Do not spray on an open flame or other ignition source.

P251 Do not pierce or burn, even after use.

P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C / 122°F.

P410+P403 Protect from sunlight. Store in a well-ventilated place.

P201 Obtain special instructions before use.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P308+P313 IF exposed or concerned: Get medical advice/attention.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local, regional and national regulations.

P260 Do not breathe dust/fume/gas/mist/vapors/spray.

P314 Get medical advice/attention if you feel unwell.

## 3. Composition / Information On Ingredients

#### **HAZARDOUS SUBSTANCES**

Chemical Name	CAS-No.	<u>Wt.%</u>	GHS Symbols	GHS Statements
Propane	74-98-6	17	GHS04	H280
n-Butane	106-97-8	8.0	GHS04	H280
Naphtha, Petroleum, Hydrotreated Light	64742-49-0	6.7	GHS08	H304
Hydrotreated Light Distillate	64742-47-8	5.3	GHS08	H304
Xylenes (o-, m-, p- isomers)	1330-20-7	4.4	GHS02-GHS07	H226-315-319-332
Ethylbenzene	100-41-4	1.1	GHS02-GHS07- GHS08	H225-304-332-351-373
Stoddard Solvent	8052-41-3	0.7	GHS08	H304-372
Pigment Orange 13	3520-72-7	0.2	Not Available	Not Available
Crystalline Silica / Quartz	14808-60-7	0.1	Not Available	Not Available

## 4. First-Aid Measures

**FIRST AID - EYE CONTACT:** Immediately flush eyes with plenty of water for at least 15 minutes holding eyelids open. Get medical attention. Do NOT allow rubbing of eyes or keeping eyes closed.

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FIRST AID - SKIN CONTACT: Wash skin with soap and water. Remove contaminated clothing. Get medical attention if irritation develops or persists.

**FIRST AID - INHALATION:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical attention. Do NOT use mouth-to-mouth resuscitation. If you experience difficulty in breathing, leave the area to obtain fresh air. If continued difficulty is experienced, get medical assistance immediately.

FIRST AID - INGESTION: Aspiration hazard: Do not induce vomiting or give anything by mouth because this material can enter the lungs and cause severe lung damage. Get immediate medical attention. If swallowed, get medical attention.

## 5. Fire-Fighting Measures

**EXTINGUISHING MEDIA:** Alcohol Film Forming Foam, Carbon Dioxide, Dry Chemical, Dry Sand, Water Fog

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** FLASH POINT IS LESS THAN 20°F. EXTREMELY FLAMMABLE LIQUID AND VAPOR!Water spray may be ineffective. Closed containers may explode when exposed to extreme heat due to buildup of steam. Closed containers may explode when exposed to extreme heat. Vapors may form explosive mixtures with air. Vapors can travel to a source of ignition and flash back. Isolate from heat, electrical equipment, sparks and open flame. Perforation of the pressurized container may cause bursting of the can. No unusual fire or explosion hazards noted. Keep containers tightly closed.

**SPECIAL FIREFIGHTING PROCEDURES:** Full protective equipment including self-contained breathing apparatus should be used. Evacuate area and fight fire from a safe distance. Water may be used to cool closed containers to prevent pressure buildup and possible autoignition or explosion. Use water spray to keep fire-exposed containers cool. Containers may explode when heated.

Special Fire and Explosion Hazard (Combustible Dust): No Information

#### 6. Accidental Release Measures

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: Contain spilled liquid with sand or earth. DO NOT use combustible materials such as sawdust. Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Remove all sources of ignition, ventilate area and remove with inert absorbent and non-sparking tools. Dispose of according to local, state (provincial) and federal regulations. Do not incinerate closed containers. Ventilate area, isolate spilled material, and remove with inert absorbent. Dispose of contaminated absorbent, container, and unused contents in accordance with local, state, and federal regulations.

## 7. Handling and Storage

**HANDLING:** Wash thoroughly after handling. Wash hands before eating. Remove contaminated clothing and launder before reuse. Use only with adequate ventilation. Follow all SDS and label precautions even after container is emptied because it may retain product residues. Avoid breathing fumes, vapors, or mist. Avoid contact with eyes, skin and clothing.

**STORAGE:** Keep containers tightly closed. Isolate from heat, electrical equipment, sparks and open flame. Contents under pressure. Do not store above 120 ° F. Store large quantities in buildings designed and protected for storage of flammable aerosols. Product should be stored in tightly sealed containers and protected from heat, moisture, and foreign materials. Store in a dry, well ventilated place. Keep container tightly closed when not in use. Keep away from heat, sparks, flame and sources of ignition. Avoid excess heat.

Advice on Safe Handling of Combustible Dust: No Information

## 8. Exposure Controls / Personal Protection

Chemical Name	CAS-No.	Weight % Less Than	ACGIH TLV- TWA	ACGIH TLV- STEL	OSHA PEL-TWA	OSHA PEL- CEILING
Propane	74-98-6	20.0	N.E.	N.E.	1000 ppm	N.E.
n-Butane	106-97-8	10.0	N.E.	1000 ppm	N.E.	N.E.
Naphtha, Petroleum, Hydrotreated Light	64742-49-0	10.0	N.E.	N.E.	N.E.	N.E.
Hydrotreated Light Distillate	64742-47-8	10.0	N.E.	N.E.	N.E.	N.E.
Xylenes (o-, m-, p- isomers)	1330-20-7	5.0	100 ppm	150 ppm	100 ppm	N.E.
Ethylbenzene	100-41-4	5.0	20 ppm	N.E.	100 ppm	N.E.
Stoddard Solvent	8052-41-3	1.0	100 ppm	N.E.	500 ppm	N.E.
Pigment Orange 13	3520-72-7	1.0	N.E.	N.E.	N.E.	N.E.
Crystalline Silica / Quartz	14808-60-7	1.0	0.025 mg/m3	N.E.	50 μg/m3	N.E.

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**ENGINEERING CONTROLS:** Use explosion-proof ventilation equipment. Provide general dilution of local exhaust ventilation in volume and pattern to keep TLV of hazardous ingredients below acceptable limits. Prevent build-up of vapors by opening all doors and windows to achieve cross-ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.

**RESPIRATORY PROTECTION:** A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use. A NIOSH/MSHA approved air purifying respirator with organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits.

**SKIN PROTECTION:** Use gloves to prevent prolonged skin contact. Nitrile or Neoprene gloves may afford adequate skin protection.

EYE PROTECTION: Use safety eyewear designed to protect against splash of liquids.

**OTHER PROTECTIVE EQUIPMENT:** Refer to safety supervisor or industrial hygienist for further guidance regarding types of personal protective equipment and their applications.

**HYGIENIC PRACTICES:** Wash thoroughly with soap and water before eating, drinking or smoking. Remove contaminated clothing immediately and launder before reuse.

Engineering Measures for Combustible Dust: No Information

## 9. Physical and Chemical Properties

Appearance: **Physical State:** Aerosolized Mist Liquid Odor: Solvent Like **Odor Threshold:** N.E. **Relative Density:** 0.844 pH: N.D. Freeze Point, °C: Viscosity: N.D. N.D. Solubility in Water: Partition Coefficient, n-Miscible N.D. octanol/water: Decompostion Temp., °C: N.D. Boiling Range, °C: -37 - 537 **Explosive Limits, vol%:** 0.9 - 12.6Flammability: Flash Point, °C: -104 Supports Combustion **Evaporation Rate:** Auto-ignition Temp., °C: Faster than Ether N.D. Vapor Density: Heavier than Air Vapor Pressure: N.D.

(See "Other information" Section for abbreviation legend)

## 10. Stability and Reactivity

CONDITIONS TO AVOID: Avoid temperatures above 120°F (49°C). Avoid all possible sources of ignition.

INCOMPATIBILITY: Incompatible with strong oxidizing agents, strong acids and strong alkalies.

**HAZARDOUS DECOMPOSITION:** By open flame, carbon monoxide and carbon dioxide. When heated to decomposition, it emits acrid smoke and irritating fumes. Contains solvents which may form carbon monoxide, carbon dioxide, and formaldehyde.

HAZARDOUS POLYMERIZATION: Will not occur under normal conditions.

**STABILITY:** This product is stable under normal storage conditions.

### 11. Toxicological Information

EFFECTS OF OVEREXPOSURE - EYE CONTACT: Causes Serious Eye Irritation

EFFECTS OF OVEREXPOSURE - SKIN CONTACT: May cause skin irritation. Allergic reactions are possible.

**EFFECTS OF OVEREXPOSURE - INHALATION:** High gas, vapor, mist or dust concentrations may be harmful if inhaled. High vapor concentrations are irritating to the eyes, nose, throat and lungs. Harmful if inhaled. Avoid breathing fumes, spray, vapors, or mist. Prolonged or excessive inhalation may cause respiratory tract irritation.

EFFECTS OF OVEREXPOSURE - INGESTION: Harmful if swallowed.

EFFECTS OF OVEREXPOSURE - CHRONIC HAZARDS: Overexposure to xylene in laboratory animals has been associated with liver abnormalities, kidney, lung, spleen, eye and blood damage as well as reproductive disorders. Effects in humans, due to chronic overexposure, have included liver, cardiac abnormalities and nervous system damage. IARC lists Ethylbenzene as a possible human carcinogen (group 2B). Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. May cause central nervous system disorder (e.g., narcosis involving a loss of coordination, weakness, fatigue, mental confusion, and blurred vision) and/or damage. High concentrations may lead to central nervous system effects (drowsiness, dizziness, nausea, headaches, paralysis, and blurred vision) and/or damage.

PRIMARY ROUTE(S) OF ENTRY: Eye Contact, Ingestion, Inhalation, Skin Absorption, Skin Contact

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#### **ACUTE TOXICITY VALUES**

The acute effects of this product have not been tested. Data on individual components are tabulated below:

CAS-No.	Chemical Name	Oral LD50	Dermal LD50	Vapor LC50
106-97-8	n-Butane	N.E.	N.E.	658 mg/L Rat
64742-49-0	Naphtha, Petroleum, Hydrotreated Light	>5000 mg/kg Rat	>3160 mg/kg Rabbit	>4951 mg/L Rat
64742-47-8	Hydrotreated Light Distillate	>5000 mg/kg Rat	>2000 mg/kg Rabbit	>5000 mg/L Rat
1330-20-7	Xylenes (o-, m-, p- isomers)	3500 mg/kg Rat	>4350 mg/kg Rabbit	29.08 mg/L Rat
100-41-4	Ethylbenzene	3500 mg/kg Rat	15400 mg/kg Rabbit	17.4 mg/L Rat
3520-72-7	Pigment Orange 13	>5000 mg/kg Rat	N.E.	N.E.
14808-60-7	Crystalline Silica / Quartz	5500 mg/kg Rat	5500	100 mg/L

N.E. - Not Established

## 12. Ecological Information

ECOLOGICAL INFORMATION: Product is a mixture of listed components.

## 13. Disposal Information

**DISPOSAL INFORMATION:** Do not incinerate closed containers. This product as supplied is a USEPA defined ignitable hazardous waste. Dispose of unusable product as a hazardous waste (D001) in accordance with local, state, and federal regulation.

## 14. Transport Information

14. Transport inform	Domestic (USDOT)	International (IMDG)	Air (IATA)	TDG (Canada)
UN Number:	N.A.	1950	1950	N.A.
Proper Shipping Name:	Paint Products in Limited Quantities	Aerosols	Aerosols	Paint Products in Limited Quantities
Hazard Class:	N.A.	2.1	2.1	N.A.
Packing Group:	N.A.	N.A.	N.A.	N.A.
Limited Quantity:	Yes	Yes	Yes	Yes

## 15. Regulatory Information

## **U.S. Federal Regulations:**

#### **CERCLA - SARA Hazard Category**

This product has been reviewed according to the EPA 'Hazard Categories' promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

Gas under pressure, Carcinogenicity, Specific target organ toxicity (single or repeated exposure)

#### Sara Section 313:

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR part 372:

Chemical NameCAS-No.Xylenes (o-, m-, p- isomers)1330-20-7Ethylbenzene100-41-4

### **Toxic Substances Control Act:**

This product contains the following chemical substances subject to the reporting requirements of TSCA 12(b) if exported from the United States:

<u>Chemical Name</u> <u>CAS-No.</u>

Date Printed: 8/7/2018

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Castor oil, sulfated, sodium salt 68187-76-8

#### 16. Other Information

**HMIS RATINGS** 

Health: 2\* Flammability: 4 Physical Hazard: 0 Personal Protection: X

**NFPA RATINGS** 

Health: 2 Flammability: 4 Instability 0

Volatile Organic Compounds 549 g/L SDS REVISION DATE: 8/7/2018

**REASON FOR REVISION:** Substance Regulatory CAS Number Changed

Substance Hazardous Flag Changed Substance Hazard Threshold % Changed Substance Chemical Name Changed

Substance and/or Product Properties Changed in Section(s):

02 - Hazard Identification

03 - Composition/Information on Ingredients

15 - Regulatory Information16 - Other Information

Revision Statement(s) Changed

Legend: N.A. - Not Applicable, N.E. - Not Established, N.D. - Not Determined

The manufacturer believes, to the best of its knowledge, information and belief, the information contained herein to be accurate and reliable as of the date of this safety data sheet. However, because the conditions of handling, use, and storage of these materials are beyond our control, we assume no responsibility or liability for personal injury or property damage incurred by the use of these materials. The manufacturer makes no warranty, expressed or implied, regarding the accuracy or reliability of the data or results obtained from their use. All materials may present unknown hazards and should be used with caution. The information and recommendations in this material safety data sheet are offered for the users' consideration and examination. It is the responsibility of the user to determine the final suitability of this information and to comply with all applicable international, federal, state, and local laws and regulations.



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### 1. Identification of the Substance / Preparation and of the Company / Undertaking

**Product identifier** 

Product Name UG Uni-proof RV & Marine -50 °F Burst Antifreeze

Stock Numbers 132701 / 132705

Other means of identification

**Synonyms** Not available.

Recommended use of the chemical and restrictions on use

Recommended Use RV & Marine Antifreeze.

Uses advised against Not available.

 $\underline{\text{Details of the supplier of the safety data sheet}}$ 

Supplier NameSouth/Win, Ltd.Supplier Address112 Maxfield Rd.

Greensboro, NC 27405 US

**Supplier Phone Number** Phone: (800) 648-4393

Fax: (336) 398-5680

Emergency Phone: CHEMTREC: (800) 424-9300

## 2. Hazards Identification

**GHS INFORMATION** 

Classification: Flammable Liquids, Category 3

Eye Irritation, Category 2A

### **Signal Word**

#### **Hazard Statement:**

Flammable liquid and vapor. Causes serious eye irritation

#### Warning





Appearance Red Physical State Liquid Odor Almost Odorless



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#### **Precautionary Statements**

**Prevention:** Keep away from heat, sparks, open flames, and hot surfaces. – No smoking. Keep container

tightly closed.

Ground and bond container and receiving equipment.

Use explosion-proof electrical, ventilating, and lighting equipment.

Use only non-sparking tools.

Take precautionary measures against static discharge.

Wash thoroughly after handling.

Wear protective gloves, protective clothing and eye protection.

Response: If on skin (or hair): Take off immediately all contaminated clothing.

Rinse skin with water/shower.

If in eyes; Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

In case of fire: Use dry chemical, CO2, water spray or alcohol-

resistant foam to extinguish.

Storage: Store in a well-ventilated place. Keep cool.

**Disposal:** Dispose of contents/container in accordance with applicable regional,

national, and local laws and regulations.

Hazards Not Otherwise Classified: Not applicable.

Ingredients with Unknown Toxicity: None.

This material is considered hazardous by the OSHA Hazard Communication Standard, (29 CFR 1910.1200).

This material is considered hazardous by the Hazardous Products Regulations, 2015.



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## 3. Composition / Information on Ingredients

Ingredient(s)	Common name / Synonyms	CAS No.	% wt./wt.
Water	Not available.	7732-18-5	70 - 80
Ethanol	Not available.	64-17-5	10 - 20
1,2-Propanediol	Propylene glycol	57-55-6	3 - 5
Phosphoric acid, potassium salt (1:2)	Potassium phosphate, dibasic	7758-11-4	< 1

#### 4. First-Aid Measures

**Inhalation:** If inhaled: Call a poison center or doctor if you feel unwell.

Acute and delayed symptoms and effects: May cause respiratory irritation.

Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain. Excessive inhalation may cause headache, dizziness, and

confusion, loss of appetite and/or loss of consciousness.

Eye Contact: If in eyes: Rinse cautiously with water for at least 20 minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. If eye irritation persists: Get medical

advice/attention.

Acute and delayed symptoms and effects: Causes serious eye irritation.

Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision. Ethanol may cause painful sensitization to light, chemical conjunctivitis and corneal

damage.

Skin Contact: If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with

water/shower. Call a poison center or doctor if you feel unwell.

**Acute and delayed symptoms and effects:** May cause skin irritation. Signs/symptoms may include localized redness, swelling, and itching.

**Ingestion:** If swallowed: Call a poison center or doctor if you feel unwell. If vomiting occurs naturally,

have victim lean forward to reduce the risk of aspiration. Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious

person.

Acute and delayed symptoms and effects: May cause gastrointestinal irritation.

Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and

diarrhea.

General Advice: In case of accident or if you feel unwell, seek medical advice immediately (show the label

or SDS where possible)

**Note to Physician:** Symptoms may not appear immediately.



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#### 5. Fire-fighting Measures

#### FLAMMABILITY AND EXPLOSION INFORMATION

Flammable liquid and vapor. Will be easily ignited by heat, sparks, or flames. Vapors may form explosive mixtures with air. Vapors may travel to source of ignition and flash back. Most vapors are heavier than air.

They will spread along ground and collect in low or confined areas (sewers, basements, tanks). Vapor explosion hazard indoors, outdoors, or in sewers. Runoff to sewer may create fire or explosion hazard. Contaners may explode when heated. Liquid is lighter than water.

If tank, railcar or tank truck is involved in a fire, ISOLATE for 800 meters (1/2 mile) in all directions; also, consider initial evacuation for 800 meters (1/2 mile) in all directions.

Fire involving Tanks or Car/Trailer Loads: Fight fire from maximum distance or use unmanned hose holders or monitor nozzles. Cool containers with flooding quantities of water until well after fire is out. Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank. ALWAYS stay away from tanks engulfed in fire. For massive fire, use unmanned hose holders or monitor nozzles; if this is impossible, withdraw from area and let fire burn.

**Sensitivity to Mechanical Impact:** This material is not sensitive to mechanical impact.

Sensitivity to Static Discharge: Take precautionary measures against static discharge. This material is

sensitive to static discharge.

**MEANS OF EXTINCTION** 

Suitable Extinguishing Media: Small Fire: Dry chemical, CO2, water spray or alcohol- resistant foam.

Large Fire: Water spray, fog or alcohol-resistant foam. Move containers

from fire area if you can do it without risk.

**Unsuitable Extinguishing Media:** Do not use straight streams.

**Products of Combustion:** Oxides of carbon. Oxides of phosphorus. Potassium oxide.

**Protection of Firefighters:** Fire may produce irritating, corrosive and/or toxic gases. Vapors may

cause dizziness or suffocation. Runoff from fire control may cause pollution. Wear positive pressure self- contained breathing apparatus (SCBA). Structural firefighters' protective clothing will only provide limited

protection.

#### 6. Accidental Release Measures

**Emergency Procedures:** As an immediate precautionary measure, isolate spill or leak area. Keep

unauthorized personnel away. Stay upwind. Keep out of low areas. Ventilate closed spaces before entering. ELIMINATE all ignition sources (no smoking, flares, sparks, or flames in immediate area). All equipment

used when handling the product must be grounded.



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Personal Precautions: Do not touch or walk through spilled material. Use personal protection

recommended in Section 8.

**Environmental Precautions:** Prevent entry into waterways, sewers, basements or confined areas.

Methods for Containment: Stop leak if you can do it without risk. A vapor suppressing foam may be used

to reduce vapors.

Methods for Clean-Up: Absorb or cover with dry earth, sand or other non-combustible material and

transfer to containers. Use clean non-sparking tools to collect absorbed

material.

**Other Information:** See Section 13 for disposal considerations.

## 7. Handling and Storage

#### Handling:

Do not swallow. Avoid breathing mist, vapours, or spray. Avoid contact with eyes, skin, or clothing. Keep away from heat, sparks, open flames, and hot surfaces. – No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use only non- sparking tools. Take precautionary measures against static discharge. Wash thoroughly after handling. See Section 8 for information on Personal Protective Equipment.

#### Storage:

Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store away from incompatible materials. See Section 10 for information on Incompatible Materials. Do not store in unlabeled containers and use appropriate containment to avoid environmental contamination. Keep out of the reach of children.

#### 8. Exposure Controls / Personal Protection

#### **Exposure Guidelines Component**

Water [CAS No. 7732-18-5]

**ACGIH:** No TLV established. **OSHA:** No PEL established.

Ethanol [CAS No. 64-17-5]

ACGIH: 1000 ppm (TWA); A3 (2008)

OSHA: 1000 ppm (TWA), 1900 mg/m3 (TWA);

Propylene glycol [CAS No. 57-55-6]

**ACGIH:** No TLV established. **OSHA:** No PEL established.

Potassium phosphate, dibasic [CAS No. 7758-11-4]

**ACGIH:** No TLV established. **OSHA:** No PEL established.



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**PEL:** Permissible Exposure Limit **TLV:** Threshold Limit Value **TWA:** Time-Weighted Average

Engineering Controls: Use ventilation adequate to keep exposures (airborne levels of dust,

fume, vapour, gas, etc.) below recommended exposure limits. Use explosion-proof electrical, ventilating, and lighting equipment.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

**Eye/Face Protection:** Wear safety glasses with side shields or chemical goggles. Ensure that

eyewash stations are close to the workstation location. Use equipment for eye protection that meets the standards referenced by CSA Standard CAN/CSA-Z94.3-92 and OSHA regulations in 29 CFR 1910.133 for

Personal Protective Equipment.

**Hand Protection:** Wear protective gloves. Nitrile rubber gloves are recommended.

Consult manufacturer specifications for further information.

**Skin and Body Protection:** Wear protective clothing. Flame resistant clothing that meets the NFPA

2112 and CAN/CGSB 155.20 standards is recommended in areas where

material is stored or handled.

**Respiratory Protection:** If engineering controls and ventilation are not sufficient to control

exposure to below the allowable limits then an appropriate NIOSH/MSHA approved air-purifying respirator that meets the requirements of CSA Standard CAN/CSA- Z94.4-11, with organic vapor cartridge, or self-contained breathing apparatus must be used. Supplied air breathing apparatus must be used when oxygen concentrations are low or if airborne concentrations exceed the limits of the air- purifying respirators.

**General Hygiene Considerations:** Handle according to established industrial hygiene and safety practices.

Consult a competent industrial hygienist to determine hazard potential

and/or the PPE manufacturers to ensure adequate protection.



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## 9. Physical and Chemical Properties

Appearance: Clear, red liquid.

Colour: Red.

Odour: Almost odourless.

**Odour Threshold:** Not available.

**Physical State:** Liquid.

рН: Not available.

**Melting Point / Freezing** 

Point:

Not available.

**Initial Boiling Point:** 85 °C (185 °F)

**Boiling Range:** 85 to 93.3 °C (185 to 200 °F)

Flash Point: 43 °C (109.4 °F) (TCC)

**Evaporation Rate:** Not available. Flammability (solid, gas): Not applicable.

**Lower Flammability Limit:** 3.3 % (Ethanol)

**Upper Flammability Limit:** 19 % (Ethanol) Vapor Pressure:

Not available. Vapor Density: Not available.

**Relative Density:** 0.97 (Water = 1) at 21.1 °C (70 °F)

Solubilities: Soluble in water.

Partition Coefficient: n-

Octanol/Water:

Not available.

**Auto-ignition Temperature:** 363 °C (685.4 °F) (Ethanol)

Decomposition

Temperature:

Not available.

Viscosity: Not available.

Percent Volatile, wt. %: Not available.

VOC content, wt. %: Not available.

Density: 8.05 lb/gal

Coefficient of Water/Oil

Distribution:

Not available.



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## 10. Stability and Reactivity

Reactivity: Contact with incompatible materials. Sources of ignition. Exposure to

heat.

**Chemical Stability:** Stable under normal storage conditions.

**Possibility of Hazardous** 

Reactions:

None known.

Conditions to Avoid: Contact with incompatible materials. Sources of ignition. Exposure to

Incompatible Materials: Strong acids. Strong bases. Oxidizers.

Hazardous Decomposition Products: Not available.

## 11. Toxicological Information

#### **EFFECTS OF ACUTE EXPOSURE**

**Product Toxicity** 

Oral:

Not available.

Dermal:

Not available.

Inhalation:

Not available.

#### **Component Toxicity**

Component	CAS No.	LD50 oral	LD50 dermal	LC50
Water	7732-18-5	> 90 mL/kg (rat)	Not available.	Not available.
Ethanol	64-17-5	7060 mg/kg (rat)	20000 mg/kg (rabbit)	20000 ppm (rat); 10H
Propylene glycol	57-55-6	20000 mg/kg (rat)	20800 mg/kg (rabbit)	Not available.
Potassium phosphate, dibasic	7758-11-4	Not available.	Not available.	Not available.

**Likely Routes of Exposure:** Eye contact. Skin contact. Inhalation. Ingestion.

Target Organs: Skin. Eyes. Gastrointestinal tract. Respiratory system. Blood. Central

nervous system.

Symptoms (including delayed and immediate effects)

**Inhalation:** May cause respiratory irritation. Signs/symptoms may include cough, sneezing, nasal discharge,

headache, hoarseness, and nose and throat pain. Excessive inhalation may cause headache,

dizziness, and confusion, loss of appetite and/or loss of consciousness.



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Eye: Causes serious eye irritation. Signs/symptoms may include redness, swelling, pain, tearing, and

blurred or hazy vision. Ethanol may cause painful sensitization to light, chemical conjunctivitis and

corneal damage.

Skin: May cause skin irritation. Signs/symptoms may include localized redness, swelling, and itching.

Ingestion: May cause gastrointestinal irritation. Signs/symptoms may include abdominal pain, stomach upset,

nausea, vomiting and diarrhea.

Skin Sensitization: Not available.

Respiratory Sensitization: Not available.

Medical Conditions Aggravated By Exposure: Not available.

EFFECTS OF CHRONIC EXPOSURE (from short and long-term exposure)

Target Organs: Skin. Eyes. Gastrointestinal tract. Respiratory system. Blood. Cardiovascular

system. Liver. Kidneys. Reproductive system. Central nervous system.

Chronic Effects: Prolonged or repeated contact may dry skin and cause irritation. Prolonged

exposure to Ethanol may cause liver, kidney, and heart damage.

**Carcinogenicity:** Product is not classified as a carcinogen. See Component Carcinogenicity table

below for information on individual components. Animal studies with Ethanol have

reported the development of tumours.

#### **Component Carcinogenicity**

Component	ACGIH	IARC	NTP	OSHA	Prop 65
Ethanol	A3	Not listed.	Not listed.	Not listed.	Not listed.

**Mutagenicity:** Laboratory experiments with Ethanol have resulted in mutagenic effects.

**Reproductive Effects:** Ethanol may cause reproductive effects.

**Developmental Effects** 

**Teratogenicity:** Not available.

**Embryotoxicity:** Ethanol has been shown to produce fetotoxicity in the embryo or fetus of laboratory

animals. Prenatal exposure to ethanol is associated with a distinct pattern of congenital malformations that have collectively been termed the "fetal alcohol

syndrome".

Toxicologically Synergistic Materials: Not available.



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## 12. Ecological Information

**Ecotoxicity:** Not available.

Persistence / Degradability: Not available.

Bioaccumulation / Accumulation: Not available.

**Mobility in Environment:** Not available.

Other Adverse Effects: Not available.

### 13. Disposal Considerations

Disposal Instructions: Disposal should be in accordance with applicable regional, national and local laws

and regulations. Local regulations may be more stringent than regional or national

requirements.

## 14. Transport information

#### **U.S. Department of Transportation (DOT)**

Exempted under DOT CFR49 173.150(e). Product conforms to the water alcohol exemption.

This product is exempted under the "Limited Quantity Regulation" when packed in containers of one gallon or less.

Canada Transportation of Dangerous Goods (TDG)

Proper Shipping Name: UN1987, ALCOHOLS, N.O.S. (Ethanol), 3, PG III

Class: 3

UN Number: UN1987

Packing Group:

Label Code:





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### 15. Regulatory information

#### **Chemical Inventories US**

#### (TSCA)

The components of this product are in compliance with the chemical notification requirements of TSCA.

#### Canada (DSL)

The components of this product are in compliance with the chemical notification requirements of the NSN Regulations under CEPA, 1999.

#### **Federal Regulations**

#### **United States**

This SDS has been prepared to meet the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200.

#### **SARA Title III**

No components are listed.

### **State Regulations**

#### Massachusetts

US Massachusetts Commonwealth's Right-to-Know Law (Appendix A to 105 Code of Massachusetts Regulations Section 670.000)

ComponentCAS No.RTK ListEthanol64-17-5Listed.

#### **New Jersey**

US New Jersey Worker and Community Right-to-Know Act (New Jersey Statute Annotated Section 34:5A-5)

ComponentCAS No.RTK ListEthanol64-17-5SHHSPropylene glycol57-55-6Listed.

## Pennsylvania

US Pennsylvania Worker and Community Right-to-Know Law (34 Pa. Code Chap. 301-323)

ComponentCAS No.RTK ListEthanol64-17-5Listed.Propylene glycol57-55-6Listed.

#### California

California Prop 65: This product does not contain chemicals known to the State of California to cause

cancer, birth defects or other reproductive harm.



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16. Other information

Prepared By: Randy Boitz

#### Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet** 

## **MATERIAL SAFETY DATA SHEET**

#### **SAFE ENCASEMENT SYSTEMS**

8689 W. Sahara Ave., Suite 160 Las Vegas, NV 89117-5871

Revised: January 2006

Information. Phone: (888) 277-8834

#### SECTION I - PRODUCT ID.

PRODUCT NUMBER: **SE-120** 

PRODUCT NAME: Protective-Skin

PRODUCT CLASS: Acrylic Elastomeric Coating.

#### **SECTION II - HAZARDOUS INGREDIENTS**

None known at a hazardous level. HMIS Hazard Rating = 0 0 0 J This product contains no heavy metals or fibers.

# SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

Milky white liquid  $100^{\circ}\text{C} (212^{\circ}\text{F})$   $1.3 - 1.5 (\text{H}_{20} = 1.0)$  (mm Hg @  $20^{\circ}\text{C}$ ) = 18 lighter than 1.0 less than 1.0

## SECTION IV - FIRE & EXPLOSION HAZARD DATA

- NOT REGULATED. - N/A

- N/A

N/A

Material can splatter above 212°F. Polymer film can burn.

SE-120-msds-01-2006

For fires with this material, do not enter any enclosed or confined fire space without proper protective equipment, including self-contained breathing apparatus, to protect against the hazardous effects of normal products of combustion.

## **SECTION V - REACTIVITY DATA**

Stable.

Keep from freezing.

None reasonably foreseeable.

Will not occur

Will not occur.

## SECTION VI - HEALTH HAZARD DATA

INHALATION of excessive vapor/mist can cause headache, nausea and irritation of the nose, throat and lungs.

EYE CONTACT: slightly irritating to eyes. SKIN EXPOSURE: irritating to skin upon Prolonged or repeated contact.

For inhalation, move subject to fresh air. For eye contact, flush with large amounts of water for at least 15 minutes. See a physician if irritation persists. Wash effected skin area with soap and water. If swallowed, dilute by giving 2 glasses of water to drink and CALL A PHYSICIAN IMMEDIATELY. Never give anything by mouth to an unconscious subject.

DO NOT TAKE INTERNALLY. KEEP AWAY FROM CHILDREN.

## SECTION VII - PRECAUTIONS FOR SAFE. HANDLING AND USE.

Keep Spectators away. WEAR SKIN, EYE, AND RESPIRATORY PROTECTION DURING CLEANUP. Dike and contain with inert absorbent materials (sand, earth, etc.). Transfer to containers for recovery or disposal.

Floors may be slippery, use care to avoid falls. Flush final traces with water. Keep spills and cleaning run-off materials out of municipal sewers or open bodies of water.

Disposal should

be in accordance with Federal, state and local regulations for water-based coatings. Coagulate the emulsion by the stepwise addition of ferric chloride and lime. Incinerate the solids and contaminated diking material at a permitted facility, according to Federal, State and local regulations.

KEEP FROM FREEZING.

## SECTION VIII - CONTROL MEASURES.

GENERAL VENTILATION IS RECOMMENDED DURING NORMAL USE. LOCAL VENTILATION MAY BE REQUIRED DURING CERTAIN OPERATIONS TO PREVENT INHALATION OF VAPORS.

Wear respirator

(MSHA or NIOSH APPROVED or the equivalent) ORGANIC VAPOR/PARTICULATE RESPIRATOR. IN CASE OF POOR VENTILATION (or exposure to spray mist), USE NIOSH APPROVED ORGANIC VAPOR MASK.

**IMPERVIOUS** 

GLOVES FOR PROLONGED OR REPEATED CONTACT.

CHEMICAL SPLASH GOGGLES (ANSI 2-87.1) or EQUIVALENT.

UNHINDERED ACCESS TO SAFETY SHOWER AND EYE WASH STATIONS. AS A GENERAL HYGIENIC PRACTICE, WASH HANDS AND FACE AFTER USE. Showers and cleaning of clothes are recommended. Use approved clothing when working around ACM or lead-based paints.

## SECTION IX - REGULATORY INFO.

Not Regulated.

Follow all applicable OSHA and EPA regulations concerning normal latex spraying activities.

## MATERIAL SAFETY DATA SHEET

## MFG. BY: SAFE ENCASEMENT SYSTEMS

EMERGENCY CONTACT: (800) 424-9300 ADDRESS: 8689 West Sahara, Suite 160

Las Vegas, NV 89117

Revised: MAY.08

Information. Phone: (888) 277-8834

SECTION I - PRODUCT ID.

PRODUCT NUMBER: SE-110-MS

PRODUCT NAME: Multi-Surface Primer with Corrosion and Mold Growth Inhibitors.

PRODUCT CLASS: Specialty Acrylic Primer Coating

#### SECTION II - HAZARDOUS INGREDIENTS

None known at a hazardous level (slight ammonia odor, contains less than Windex Glass Cleaner).

HMIS Hazard Ratings =  $0 \ 0 \ 0 \ J$ 

This product contains no heavy metals or fibers.

## SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

APPEARANCE: Milky white liquid (dries clear)

BOILING POINT: 100°C (212°F)

Specific Gravity: Greater than 1.0 ( $H_2O = 1.0$ ) VAPOR PRESSURE: (mm Hg @  $20^{\circ}C$ ) = 18

VAPOR DENSITY: lighter than 1.0 EVAPORATIVE RATE: equal to water PERCENT VOLATILE (by volume) = 50 - 55%

SECTION IV - FIRE & EXPLOSION HAZARD DATA

#### FLAMMABILITY CLASSIFICATION:

DOT - NOT REGULATED.

FLASH POINT - N/A

LEL - N/A

EXTINGUISHING MEDIA: N/A

UNUSUAL FIRE & EXPLOSION HAZARDS:

Material can splatter above 212°F.

Polymer film can burn.

SPECIAL FIRE FIGHTING PROCEDURES:

For fires with this material, do not enter any enclosed or confined fire space without proper protective equipment, including self-contained breathing apparatus, to protect against the hazardous effects of normal products of combustion.

#### SECTION V - REACTIVITY DATA

STABILITY: Stable (slight ammonia odor). CONDITIONS TO AVOID: *Keep from freezing.* INCOMPATIBILITY (MATERIALS TO AVOID):

None reasonably foreseeable.

Hazardous Polymerization: Will not occur HAZARDOUS DECOMPOSITION OR BY PRODUCTS: Will not occur.

#### SECTION VI - HEALTH HAZARD DATA

#### EFFECTS OF OVEREXPOSURE:

INHALATION: inhaled mist can cause head aches, nausea or irritation of the nose, throat and lungs. EYE CONTACT: slightly irritating to eyes. SKIN EXPOSURE: irritating to skin upon prolonged or repeated contact.

EMERGENCY AND FIRST AID PROCEDURES: For inhalation, move subject to fresh air. For eye contact, flush with large amounts of water for at least 15 minutes. See a physician if irritation persists. Wash effected skin area with soap and water. If swallowed, dilute by giving 2 glasses of water to drink and CALL A PHYSICIAN IMMEDIATELY. Never give anything by mouth to an unconscious subject.

OTHER PRECAUTIONS:

DO NOT TAKE INTERNALLY. KEEP AWAY FROM CHILDREN.

## SECTION VII – PRECAUTIONS FOR SAFE HANDLING AND USE

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Keep Spectators away. wear skin, eye and Respiratory Protection during cleanup. Dike and contain with inert absorbent materials (sand, earth, etc.). Transfer to containers for recovery or disposal.

Floors may be slippery, use care to avoid falls. Flush final traces with water. Keep spills and cleaning run-off materials out of municipal sewers or open bodies of water.

WASTE DISPOSAL METHOD: Disposal should be in accordance with Federal, state and local regulations for water-based coatings. Coagulate the emulsion by the stepwise addition of ferric chloride and lime. Incinerate the solids and contaminated diking material at a permitted facility, according to Federal, State and local regulations.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: *KEEP FROM FREEZING.* 

#### SECTION VIII - CONTROL MEASURES.

VENTILATION: GENERAL VENTILATION IS RECOMMENDED DURING NORMAL USE. LOCAL VENTILATION MAY BE REQUIRED DURING CERTAIN OPERATIONS TO PREVENT INHALATION OF VAPORS.

RESPIRATORY PROTECTION: Wear respirator (MSHA or NIOSH Approved or equal) ORGANIC VAPOR/PARTICULATE RESPIRATOR. in case of poor ventilation or exposure to spray mist, use NIOSH APPROVED Organic Vapor Mask. PROTECTIVE GLOVES: IMPERVIOUS GLOVES

FOR PROLONGED OR REPEATED CONTACT.
EYE PROTECTION: CHEMICAL SPLASH

GOGGLES (ANSI 2-87.1) or EQUIVALENT.

OTHER PROTECTIVE EQUIPMENT AND MEASURES: UNHINDERED ACCESS TO SAFETY SHOWER AND EYE WASH STATIONS. AS A GENERAL HYGIENIC PRACTICE, WASH HANDS

AND FACE AFTER USE. Showers and cleaning of clothes are recommended. Use approved clothing when working around asbestos or lead.

## SECTION IX - REGULATORY INFO.

#### DOT PROPER SHIPPING NAME:

Not Regulated. Follow all applicable OSHA and EPA regulations concerning normal latex spraying activities.

SE-110-MS-msds 05.2008

Note



Print Date: 03-07-2017

CHILDERS CP-11-1 801801PM

#### SAFETY DATA SHEET

REVISION DATE: 03-07-2017 SUPERSEDES: 11-04-2016

#### SECTION 1: IDENTIFICATION OF THE PRODUCT AND SUPPLIER

#### PRODUCT INFORMATION

PRODUCT: CHILDERS CP-11-1

PRODUCT DESCRIPTION: Coating
INTENDED USE: Coating
PRODUCT IDENTIFIER: 801801PM

#### **COMPANY INFORMATION**

H.B. Fuller Construction Products Inc.

1105 S. Frontenac Street Aurora, IL 60504 Phone: 1-800-552-6225

> Medical Emergency Phone Number (24 Hours): 1-888-853-1758 Transport Emergency Phone Number (CHEMTREC): 1-800-424-9300

#### **SECTION 2: HAZARDS IDENTIFICATION**

**GHS Classification:** This product is not classified as hazardous under GHS criteria.

**GHS Precautions:** 

Chemical Name

Safety Precautions: No special precautionary measures are required. Please read the entire Safety Data

Sheet for other information regarding handling of this product.

**First Aid Measures:** IF SWALLOWED: Do not induce vomiting. Seek medical attention if symptoms

develop. IF IN EYES: Use an eye wash to remove chemical from the eye. IF ON SKIN: Wash with soap and water. IF INHALED: Remove individual to fresh air after

Classification

an airborne exposure if any symptoms develop.

#### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

CAS#

*This product contains one or more materials that may be hazardous when present as an airborne dust. During							
normal handling of the product, the material is encapsulated within the product and will not present an exposure							
risk. Once the product has reached its final state and is abraded or disturbed, dusting and exposure may occur. This							
product contains titanium dioxide, which is hazardous when present as an airborne dust. As provided, and during							
normal use of this product, this substance is encapsulated within the product. As such, it is considered to be							
inextricably bound, and not readily available for exposure. This product contains crystalline silica. As provided, and							
during normal use of this product, the crystalline silica is encapsulated within the product. As such, it is considered							
to be inextricably bound, and not readily available for exposure. Use of this product would not subject the user to							
the compliance requirements of 29CFR1910.1053 or 1926.1153.							

PERCENT

Unlisted ingredients are not 'hazardous' per the Occupational Safety and Health Administration Hazard Communication Standard (29 CFR 1910.1200) and/or are not found on the Canadian Workplace Hazardous Materials Information System ingredient disclosure list. See Section 8 for exposure limit guidelines.

#### **SECTION 4: FIRST AID MEASURES**

IF IN EYES: Use an eye wash to remove a chemical from your eye regardless of the level of hazard. Flush the affected eye for at least twenty minutes. Tilt the head to prevent chemical from transferring to the uncontaminated eye. Seek medical advice after flushing.



#### CHILDERS CP-11-1 801801PM

#### SAFETY DATA SHEET

IF ON SKIN: Wash with soap and water. Get medical attention if irritation develops or persists.

IF INHALED: Remove to fresh air. Call a physician if symptoms persist.

IF SWALLOWED: Do not induce vomiting. Seek medical attention if symptoms develop. Provide medical care provider with this MSDS. Induced vomiting may lead to aspiration of the material into the lungs potentially causing chemical pneumonitis that may be fatal.

## **SECTION 5: FIRE FIGHTING MEASURES**

EXTINGUISHING MEDIA: Use water spray, foam, dry chemical or carbon dioxide.

UNUSUAL FIRE AND EXPLOSION HAZARDS: There is a possibility of pressure buildup in closed containers

when heated. Water spray may be used to cool the containers. Persons exposed to products of combustion should wear self-

SPECIAL FIRE FIGHTING INSTRUCTIONS: Persons exposed to products of combustion should wear self-contained breathing apparatus and full protective equipment.

HAZARDOUS COMBUSTION PRODUCTS: Carbon dioxide, Carbon monoxide

#### SECTION 6: ACCIDENTAL RELEASE MEASURES

SPECIAL PROTECTION: No adverse health effects expected from the clean-up of spilled material.

Follow personal protective equipment recommendations found in

Section 8 of this SDS.

METHODS FOR CLEAN-UP: Dike if necessary, contain spill with inert absorbent and transfer to

containers for disposal. Keep spilled product out of sewers, watersheds,

or water systems.

Transport Emergency Phone Number (CHEMTREC): 1-800-424-9300

#### **SECTION 7: HANDLING AND STORAGE**

Handling: No special handling instructions due to toxicity.

Storage: Store in a cool, dry place. Protect from freezing. Consult the Technical Data Sheet for specific storage instructions.

#### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### **EXPOSURE LIMITS:**

Chemical Name	Note	ACGIH EXPOSURE LIMITS	OSHA PEL
Calcium carbonate	* (see below)	No data available.	15 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable fraction)
Titanium dioxide	* (see below)	10 mg/m3 TWA	15 mg/m3 TWA (total dust)
Cellulose	* (see below)	10 mg/m3 TWA	15 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable fraction)
Crystalline silica	* (see below)	0.025 mg/m3 TWA (respirable fraction)	((250)/(%SiO2 + 5) mppcf TWA (respirable)); ((10)/(%SiO2 + 2) mg/m3 TWA (respirable)); ((30)/(%SiO2 + 2) mg/m3 TWA (total dust))

<sup>\*</sup>This product contains one or more materials that may be hazardous when present as an airborne dust. During normal handling of the product, the material is encapsulated within the product and will not present an exposure risk. Once the product has reached its final state and is abraded or disturbed, dusting and exposure may occur. This product contains titanium dioxide, which is hazardous when present as an airborne dust. As



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provided, and during normal use of this product, this substance is encapsulated within the product. As such, it is considered to be inextricably bound, and not readily available for exposure. This product contains crystalline silica. As provided, and during normal use of this product, the crystalline silica is encapsulated within the product. As such, it is considered to be inextricably bound, and not readily available for exposure. Use of this product would not subject the user to the compliance requirements of 29CFR1910.1053 or 1926.1153.

#### **ENGINEERING CONTROL METHODS:**

VENTILATION: General room ventilation might be required under normal conditions

of use.

EYE PROTECTION: Wear safety glasses when handling this product.

SKIN PROTECTION: Not normally required. Wear chemically resistant gloves to prevent

prolonged or repeated contact.

GLOVES: Not normally required. Use nitrile gloves if conditions warrant.

RESPIRATORY PROTECTION: No respiratory protection required under normal conditions of use.

Respirators should be selected by and used following requirements found in OSHA's respirator standard (29 CFR 1910.134).

#### **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

PHYSICAL STATE: Liquid COLOR: Gray ODOR: Sweet

ODOR THRESHOLD:

PH:

Not established

FREEZING/MELTING POINT (deg. C):

Not established

BOILING POINT (deg. C):

Not established

FLASH POINT:

Non flammable

EVAPORATION RATE:

Not established

FLAMMABILITY: Not a flammable solid or gas

UPPER EXPLOSIVE LIMIT (% in air):

LOWER EXPLOSIVE LIMIT (% in air):

VAPOR PRESSURE (mm Hg):

VAPOR DENSITY:

Not established

Not established

WEIGHT PER GALLON (lbs.): 11.30 SPECIFIC GRAVITY: 1.330

SOLUBILITY: Not established OCTANOL/WATER COEFFICIENT: Not established AUTOIGNITION TEMPERATURE: Not established DECOMPOSITION TEMPERATURE: Not established VISCOSITY: No data available.

SOLIDS (% by weight): 63.7 VOC, weight percent 0.77

VOC, U.S. EPA Method 24, less water and exempt 19g/liter of material

solvents (analytically determined)

#### **SECTION 10: STABILITY AND REACTIVITY**

STABILITY: Stable under normal conditions.

CHEMICAL INCOMPATIBILITY: Not established HAZARDOUS POLYMERIZATION: Will not occur.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide, carbon dioxide



#### CHILDERS CP-11-1 801801PM

#### SAFETY DATA SHEET

SECTION 11: TOXICOLOGICAL INFORMATION

## Component Toxicity / Toxicology Data:

component romerty, romeology	2
COMPONENT NAME	LD50/LC50
2,2,4-Trimethyl-1,3-	Oral LD50 Rat 3,200 mg/kg
pentanediolmonoisobutyrate	
Cellulose	Oral LD50 Rat > 5 g/kg

#### This product is a mixture. Unless noted, the information below is based on components.

Skin corrosion / irritation: No irritation hazard in normal industrial use.

Serious eye damage / irritation :No irritation hazard in normal industrial use.

Respiratory / skin sensitization: No data available.

Germ cell mutagenicity: No data available.

Carcinogenicity: Contains a material that may cause cancer.

Reproductive toxicity: No data available.

Specific target organ toxicity-single exposure: No data available.

Respiratory irritation / Narcotic effects: No data available.

Specific target organ toxicity-repeated exposure: No data available.

Target organs potentially affected by exposure: Lungs

Aspiration hazard: Not an aspiration hazard.

Medical Conditions Aggravated by Exposure: Lung disease

#### **SECTION 12: ECOLOGICAL INFORMATION**

OVERVIEW: No ecological information available for this product.

MOBILITY: No data available. PERSISTENCE: No data available. BIOACCUMULATION: No data available.

#### This product has not been tested for ecological effects. Relevant information for components is listed below:

Component:	Ecotoxicity values:
2,2,4-Trimethyl-1,3-	Acute Toxicity (Fish): 96 Hr LC50 Pimephales promelas: 30 mg/L
pentanediolmonoisobutyrate	Acute Toxicity (Daphnia): Not established
	Acute Toxicity (Algae): 72 Hr EC50 Pseudokirchneriella subcapitata: 18.4 mg/L

## **SECTION 13: DISPOSAL CONSIDERATIONS**

To the best of our knowledge, this product does not meet the definition of hazardous waste under the U.S. EPA Hazardous Waste Regulations 40 CFR 261. Solidify and dispose of in an approved landfill. Consult state, local or provincial authorities for more restrictive requirements.

#### **SECTION 14: TRANSPORT INFORMATION**

Consult Bill of Lading for transportation information.

US DOT: NOT REGULATED NOT REGULATED



#### CHILDERS CP-11-1 801801PM

#### SAFETY DATA SHEET

SECTION 15: REGULATORY INFORMATION

**INVENTORY STATUS** 

This product is in compliance with the Toxic Substances Control Act's U.S. EPA TSCA:

Inventory requirements.

CANADIAN CEPA DSL: The components of this product are included on the DSL or are exempt

from DSL requirements.

**EUROPEAN REACH:** As a result of the introduction of REACH into Europe, this product

cannot be imported into Europe unless the REACH requirements are

This product is in compliance with the Australian Inventory of **AUSTRALIA AICS:** 

Chemical Substances requirements.

PHILIPPINES: This product is in compliance with the Philippine Inventory of

Chemicals and Chemical Substances requirements.

CHINA IECSC INVENTORY: This product is in compliance with the Inventory of Existing Chemical

Substances in China (IECSC) requirements.

If you need more information about the inventory status of this product call 651-236-5858.

This product may contain chemical substances that are regulated for export by various government agencies (such as the Environmental Protection Agency, the Bureau of Industry and Security, or the Drug Enforcement Administration, among others). Before exporting this product from the USA or Canada, we recommend you contact us at reg.request@hbfuller.com to request an export review.

This product contains a chemical substance that is

subject to a Significant New Use Rule (SNUR)

under Section 5(a)(2) of TSCA:

.alpha.-(4-Nonylphenyl)-.omega.-hydroxy-

poly(oxy-1,2-ethanediyl)

79 FR 59186, Oct 1, 2014 (Proposed rule)

#### FEDERAL REPORTING

\*This product contains one or more materials that may be hazardous when present as an airborne dust. During normal handling of the product, the material is encapsulated within the product and will not present an exposure risk. Once the product has reached its final state and is abraded or disturbed, dusting and exposure may occur. This product contains titanium dioxide, which is hazardous when present as an airborne dust. As provided, and during normal use of this product, this substance is encapsulated within the product. As such, it is considered to be inextricably bound, and not readily available for exposure. This product contains crystalline silica. As provided, and during normal use of this product, the crystalline silica is encapsulated within the product. As such, it is considered to be inextricably bound, and not readily available for exposure. Use of this product would not subject the user to the compliance requirements of 29CFR1910.1053 or 1926.1153.

#### EPA SARA Title III Section 313

Unless listed below, this product does not contain toxic chemical(s) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA) and 40 CFR part 372. EPA has advised that when a percentage range is listed the midpoint may be used to fulfill reporting obligations.

Chemical Name CAS# %

#### STATE REPORTING

Proposition 65, The Safe Drinking Water and Toxic Enforcement Act of 1986:

Unless listed below, this product does not contain known levels of any chemical known to the State of California to cause cancer or reproductive harm.

Chemical Name/List		CAS	Percent
Titanium dioxide	(Carcinogen)	13463-67-7	1 - 5
Quartz	(Carcinogen)	14808-60-7	0.1 - 1



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Carbon black	(Carcinogen)	1333-86-4	0.1 - 1
Acetaldehyde	(Carcinogen)	75-07-0	0.001 - 0.01
Formaldehyde	(Carcinogen)	50-00-0	0.001 - 0.01
Ethyl acrylate	(Carcinogen)	140-88-5	< 10 ppm
Lead	(Carcinogen)	7439-92-1	< 10 ppm
Cadmium	(Carcinogen)	7440-43-9	< 10 ppm
Methyl isobutyl ketone	(Carcinogen)	108-10-1	< 10 ppm
1,4-Dioxane	(Carcinogen)	123-91-1	< 10 ppm
Ethylene glycol	(Developmental toxin)	107-21-1	0.1 - 1
Methanol	(Developmental toxin)	67-56-1	< 10 ppm
Lead	(Developmental toxin)	7439-92-1	< 10 ppm
Cadmium	(Developmental toxin)	7440-43-9	< 10 ppm
Methyl isobutyl ketone	(Developmental toxin)	108-10-1	< 10 ppm
Lead	(Female reproductive toxin)	7439-92-1	< 10 ppm
Lead	(Male reproductive toxin)	7439-92-1	< 10 ppm
Cadmium	(Male reproductive toxin)	7440-43-9	< 10 ppm

#### **Substances of Very High Concern (SVHC) Content:**

Unless listed below, this product does not contain SVHC's at 0.1% or greater, as of the version date of this SDS.

4-Nonylphenol, ethoxylated tert-Octylphenol, ethoxylated

4-Nonylphenol, ethoxylated

#### **SECTION 16: OTHER INFORMATION**

SDS VERSION DATE: 03-07-2017

This Safety Data Sheet is prepared to comply with the United States Occupational Safety and Health Administration (OSHA) Hazard Communication Standard (29 CFR 1910.1200) and the Canadian Workplace Hazardous Materials Information System (WHMIS).

HMIS RATING: HEALTH -- 0 FLAMMABILITY -- 0 REACTIVITY -- 0

See SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for personal protective equipment recommendations.

recommendations.

Prepared by: The Global Regulatory Department

Phone: 651-236-5842

The information and recommendations set forth herein are believed to be accurate. Because some of the information is derived from information provided to H.B. Fuller Construction Products, Inc. from its suppliers, and because H.B. Fuller Construction Products, Inc. has no control over the conditions of handling and use, H.B. Fuller Construction Products, Inc. makes no warranty, expressed or implied, regarding the accuracy of the data or the results to be obtained from the use thereof. The information is supplied solely for your information and consideration, and H.B. Fuller Construction Products, Inc. assumes no responsibility for use or reliance thereon. It is the responsibility of the user of H.B. Fuller Construction Products, Inc. products to comply with all applicable federal, state and local laws and regulations.

## SAFETY DATA SHEET

#### SECTION I - PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME : SE-110 MS

PRODUCT GRADE/TYPE : SPECIALTY ACRYLIC PRIMER COATING

SDS NUMBER : SE-110MS-1

PRODUCT USE : Multi-surface primer with corrosion and mold growth inhibitors

MANUFACTURER : SAFE ENCASEMENT SYSTEMS

257 Walnut Street Napa, CA 94559

#### **RDS IDENTIFICATION**

#### **GHS CLASSIFICATION:**

Skin Sensitization, Category 1

#### **GHS LABEL:**

Hazard Category	Signal Word	Pictogram	Hazard Statement	GHS Pictogram Number
Skin Sensitization, Category 1	Warning	<b>(1)</b>	H317- May cause an allergic skin reaction	GHS07

#### **GHS Precaution Phrases:**

Hazard Category	Prevention	Response	Storage	Disposal
Skin Sensitization, Category 1	P261, P272, P280	P302+P352, P333+ P313; P321: P363		P501

#### P Statements:

P261: Avoid breathing dust/fumes/gas/mist/vapors/spray. [As modified by IV ATP]

P272: Contaminated work clothing should not be allowed out of the workplace.

P280: Wear protective gloves/protective clothing/eye protection/face protection. [As modified by IV ATP]

P302 + P352 - IF ON SKIN: Wash with plenty of soap and water.

P333 + P313 – If skin irritation or rash occurs: Get medical advice/attention.

P321 – Specific treatment (see ... on this label).

P362 – Take off contaminated clothing and wash before reuse.

P501 – Dispose of contents/container to ...

## SECTION III - COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS No.	Weight	Hazards (GHS) and Category
		%	
Mixture: Poly(oxy-1,2-	9036-19-5		No label
ethanediyl), alpha-[(1,1,3,3-			
tetramethylbutyl)phenyl]-omega-	55965-84-9	<0.5%	Skin sensitizer
reaction mass of: 5- chloro-2-			
methyl-4 isothiazolin-3-one [EC			
no.247-500-7] and 2-methyl-2H-			
isothiazol-3-one [EC no. 220-			

Revision Date: 02/14/18

239-6] (3:1)		

## SECTION IV - FIRST AID MEASURES

Eye Contact: Eye irritation. Flush immediately with large amounts of water for at least 20 minutes. Eyelids should be held

away from eyeball to ensure thorough rinsing. Get immediate medical attention.

Skin Contact: Itching or burning of the skin. Immediately wash skin with soap and plenty of water while removing

contaminated clothing and shoes. If skin irritation occurs, get immediate medical attention.

**Inhalation**: If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Administer

oxygen if breathing is difficult. Give artificial respiration if victim is not breathing. If signs/symptoms

continue, get medical attention.

**Ingestion**: If ingested, rinse mouth. Drink 1-2 glasses of water. Do not give anything by mouth to an unconscious person.

Do not induce vomiting unless directed to do so by a medical personnel. Get medical attention.

#### SECTION V - FIRE-FIGHTING MEASURES

Suitable Extinguishing Media: Use dry chemical, foam or carbon dioxide to extinguish fire. Do not use a direct stream of water.

Specific hazards arising from the chemical: Dangerous when exposed to heat or flame. Will form flammable or explosive mixtures with air at room temperature. Irritating or toxic substances may be emitted upon thermal decomposition. Thermal decomposition products may include oxides of carbon and nitrogen. Vapor or gas may spread to distant ignition sources and flash back. Vapors or gas may accumulate in low areas. Runoff to sewer may cause fire or explosion hazard. Containers may explode in heat of fire. Containers may explode in heat of fire. Vapors may concentrate in confined areas. Liquid will float and may reignite on the surface of water.

### Special protective action for fire-fighters:

No action shall be taken involving any personal risk or without suitable training.

Move containers from the fire area if you can do it without personal risk.

Exposed fire-fighters must wear NIOSH approved positive pressure self-contained breathing apparatus with full face mask and full protective clothing.

Wear chemical protective clothing that is specifically recommended by the manufacturer. It may provide little or no thermal protection.

#### SECTION VI - ACCIDENTAL RELEASE MEASURES

**Personal Precautions:** Ventilate enclosed areas.

Use personal protective equipment.

Keep people away from and upwind of spill/leak.

Material can create slippery conditions. Do not touch or walk through spilled material.

**Emergency Procedures**: Eliminate all ignition sources (no smoking, flares, sparks or flames in immediate areas.

As an immediate precautionary measure, isolate spill or leak area for at least 50 meters (150 feet) in all directions. If tank, rail car or tank truck is involved in a fire, isolate for 800 meters (1/2 mile) in all directions, also consider initial evacuation for 800 meters (1/2 mile) in all directions. LARGE SPILL: Consider initial downwind evacuation for at least 300 meters (1000 feet). Keep out of low areas. Stay upwind. Keep unauthorized personnel away. Ventilate closed spaces before entering.

**Personal Precautions:** Keep spills and cleaning runoff out of municipal sewers and open bodies of water.

Methods of Cleaning up: Stop leak if you can do it without risk.

Contain spills immediately with inert materials (e.g. sand, warth). Use non-sparking tools to collect

absorbed material.

Transfer liquids and solid diking material to separate suitable containers for recovery or disposal.

All equipment use when handling the product must be grounded.

## SECTION VII - HANDLING AND STORAGE

#### Precautions for safe handling:

Keep away from fire. Keep away from heat and sparks. Do not eat, drink or smoke when using this product. After handling wash hands thoroughly. Prevent formation of aerosols. All equipment used in handling the product must be grounded. Bound and ground all transfer containers and equipment. Take precautionary measures against static charges. Containers, even those that have been emptied, can contain explosive vapors. Do not cut, grind, drill, weld or perform similar operations near container.

Conditions for safe storage: Storage: Keep containers properly sealed in a cool, dry, well-ventilated area between 65-

85 F (18.3-29.4 F) Do not store in open, unlabeled or mislabeled containers. Do not reuse

empty container without commercial cleaning or reconditioning.

**Storage Period:** 12 months

Keep container closed when not in use. Protect from freezing.

#### SECTION VIII - EXPOSURE CONTROLS/PERSONAL PROTECTION

**Control Parameters:** 

Components with occupational exposure limits:

2682-20-4: 2-Methyl-2H-isothiazol-3-one

**55965-84-9:** reaction mass of: 5- chloro-2-methyl-4 isothiazolin-3-one [EC no.247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)

**Engineering Controls:** : Good general ventilation should be used. Ventilation rates should be matched to conditions. If

applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been

established, maintain airborne levels to an acceptable level. Use explosion-proof

electrical/ventilating/lighting/equipment.

**Protective Measures**: Employees should wash their hands and face before eating, drinking or using tobacco

products. Educate and train employees in the safe use and handling of this product.

EMERGENCY SHOWERS AND EYE WASH STATIONS SHOULD BE AVAILABLE.

**Eve/face Protection** : Safety glasses with side-shields.

**Skin Protection** : Impervious (Neoprene gloves). Wear clothing and footwear that cannot be penetrated by

chemicals.

Respiratory Protection: Use only with ventilation to keep levels below exposure guidelines reported in this document. If

not sure, and/or not able to monitor, use State or federally approved supplied air-respirator. Wear

suitable respirator (MSHA/NIOSH approved or equivalent) where exposure

limits are exceeded.

### SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Liquid, dispersion

Odour: Characteristic odor, faint odor

Odour threshold:

pH:

Mot available
approximately 8-9
Melting point/freezing point:

Not determined

Boiling Point/boiling range: 57°C (134.6°F) similar to water

Flash Point: not applicable
Evaporation Rate: Data lacking
Flammability: Flammable liquid
Upper/Lower Flammability or explosive limits: Not available

Vapor Pressure: Data Lacking Vapor density Not available

Relative density:

Solubility: in water

Partition Coefficient: n-octanol/water:

Auto-ignition temperature:

Decomposition temperature:

Viscosity:

Data Lacking

Immiscible

Not available

Not available

Not available

Not determined

VOC Content g/l: no data

Note: The above data are typical values and must not be construed as a specification.

#### **SECTION X - STABILITY AND REACTIVITY**

**Reactivity**: No dangerous reaction known under conditions of normal use.

Chemical Stability: Stable under normal temperatures and pressure.

**Possibility of hazardous reactions**: None known.

Conditions/Materials to avoid: Avoid flames, sparks or other sources of ignition.

**Incompatible Materials**: oxidizing agents.

**Hazardous decomposition**: By Thermal decomposition: carbon monoxide, carbon dioxide,

Oxides of nitrogen (NOx), other potentially toxic fumes, dense black smoke.

#### SECTION XI – TOXICOLOGICAL INFORMATION

**Acute Toxicity:** 

Other GHS- Hazards Classification	Experimental/calculated data
Acute Toxicity	LD50 rar (oral):>2000-10000mg/kg
Irritation	Skin Corrosion/irritation: rabbit: non-irritant (OECD Guideline 404)
	Serious Eye Damage/irritation rabbit: non-irritant (OECD Guideline 405)
Respiratory/Skin Sensitization	The product has not been tested. Declaration is from individual components.
Germ Cell Mutagenicity	Not mutagenic in bacteria
Carcinogenicity	None
Reproductive Toxicity	None
	Data not sufficient for evaluation
Developmental Toxicity	
Experiences in humans	Not harmful if used in correct levels.
STOT: Single	None
Repeated Dose Toxicity and	No adverse effects-derived from similar substances
STOT/Repeated	
Aspiration Hazard	Not Applicable
Other Relevant Toxicity Information	As derived from similar products-no adverse health effects are expected if handles
	as recommended with suitable precautions for designated uses.

#### SECTION XII - ECOLOGICAL INFORMATION

**Toxicity:** 

To Fish: LC50 (96 h)

Species	Duration	Results	<b>Exposure Conditions</b>
Fish: Brachydanio rerio	96 hours	EC50>100	OECD Guideline 203,
		mg/l	static
Aquatic invertebrates, Daphnia	48 hours	EC50>100	OECD Guideline 202,
magna		mg/ml	static
Aquatic Plants, Scenedesmus	72 hours	EC50>100	OECD Guideline 201,

subspicatus		mg/ml	normal concentration
Microorganisms /Effect on	0.5 hours	EC50>100	DIN EN ISO 8192-
activated sludge		mg/ml	OECD 209-88/302/, P

The inhibition of the degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations.

#### Persistence and Degradability:

Assessment biodegradation and elimination (H2O): The product can be virtually eliminated from water by abiotic processes e.g. adsorption onto activated sludge.

Elimination information:

>70% DOC reduction (OECD 302B; ISO 9888; 88/302/EEC, part C) Easily eliminated from water.

**Bioaccumulative Potential**: Not available for components and mixtures in the products listed. Accumulation organisms is not to be expected.

#### **Mobility in Soil**: Assessment transport between environmental compartments:

Volatility: No data available. Water Hazard Class 2 (self-assessment): Hazardous to water. Do not allow product to reach sewage system. Disposal must be made according to official regulations.

#### Results of PVT and vPvB assessments:

According to Regulation (EC) no 453/2010: The product does not fulfill the criteria for PBT (Persistent/bioaccumulative/toxic) vPvB (very Persistent/very bioaccumulative).

Other adverse effects: No data available. Ecological data are determined by analogy.

## SECTION XIII - DISPOSAL INFORMATION

#### **Environmental Precautions:**

Keep spills and cleaning runoff out of municipal sewers and open bodies of water.

#### Waste Disposal Method:

Waste disposal should be in accordance with existing federal, state and local environmental laws.

#### **Empty Container Precautions:**

Recondition or dispose of empty container in accordance with governmental regulations. Do not reuse empty container without proper cleaning.

SECTION XIV – TRANSPORT INFORMATION						
	14.1 UN	UN Proper	14.3 Transport	14.4 Packing	14.5	
	Number	<b>Shipping Name</b>	Hazard Class	Group	Environmental	
					Hazards	
ADR	Not applicable	Not applicable	None	Not applicable	None known	
RID	Not applicable	Not applicable	None	Not applicable	None known	
IMDG	Not applicable	Not applicable	None	Not applicable	None known	
ADN	Not applicable	Not applicable	None	Not applicable	None known	
IATA/ICAO	Not applicable	Not applicable	None	Not applicable	None known	

<sup>14.6</sup> Special Precautions: None known.

14.7 Transport in Bulk according to Annex II of MARPOL 73/78 and the IBC Code- Not evaluated

#### SECTION XV - REGULATORY INFORMATION

SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATIONS SEPECIFIC FOR THE SUBSTANCE OR MIXTURE

#### **Prohibitions, Restrictions and Authorizations:**

Annex XVII of Regulation (EC) No 1907/2006: Number on List: 3, 46

If other regulatory information applies that is not already provided elsewhere in this safety data sheet, then it is described in this subsection.

Chemical Safety Assessment: Chemical Safety Assessment is not required.

#### SECTION XVI - OTHER INFORMATION

#### Legend:

Acronym	Meaning
GHS	Globally Harmonized System (of Classification and Labeling of
	Chemicals)
IMDG	International Maritime Dangerous Goods
ICAO	International Civil Aviation Organization
IATA	International Air Transport Association

The information in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. The information relates only to the specific material designated and may not be valid for such material used in combination with or any other material in any process, unless specified in the test.

Version #: GHS-045 Revision Date: 1/29/18

Supersedes Last Revision: May 2008

This SDS adheres to the standards and regulatory requirements of the United States and has been written under the guidance of the Globally Harmonized System of Classification and Labeling of Chemicals.

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## SAFETY DATA SHEET

#### SECTION I - PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME : SE-120

PRODUCT NAME : PROTECTIVE-SKIN

SDS NUMBER : SE-120-1

PRODUCT USE : ACRYLIC COATING

MANUFACTURER : SAFE ENCASEMENT SYSTEMS

257 Walnut Street Napa, CA 94559

PRODUCT INFORMATION : 1-888-277-8834 EMERGENCY CONTACT = 1-800-424-9300

#### SECTION II - HAZARDS IDENTIFICATION

GHS CLASSIFICATION: NON-HAZARDOUS

**GHS LABEL: None** 

#### SECTION III - COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS No.	Weight %
Titanium dioxide (unbound only)	13463-67-7	3-7
Limestone	1317-65-3	10-40
Zinc Oxide	1314-13-2	2-4

The hazards of the listed titanium dioxide, crystalline silica (Quartz) from limestone and ZnO are for their powder unbound form. In the bound form and when used for application as a roof coating for which the products are designed, these ingredients are not hazardous.

#### **SECTION IV - FIRST AID MEASURES**

**Eye Contact**: Eye irritation. Flush immediately with large amounts of water for at least 15 minutes. Eyelids should be held

away from eyeball to ensure thorough rinsing. Get immediate medical attention.

Skin Contact: Itching or burning of the skin. Immediately flush the skin with plenty of water while removing contaminated

clothing and shoes. Get immediate medical attention.

**Inhalation**: Nasal irritation, headache, dizziness, nausea, vomiting. Heart palpitations, breathing difficulty, cyanosis,

tremors, weakness, red flushing of face, irritability. Remove exposed person from source of exposure to fresh air. If not breathing, clear airway and start cardiopulmonary resuscitation (CPR). Avoid mouth to

mouth resuscitation. Get medical attention immediately.

**Ingestion**: If ingested, do not induce vomiting unless directed to do so by a medical personnel. Get medical

attention.

#### SECTION V - FIRE-FIGHTING MEASURES

Suitable Extinguishing Media: Use dry chemical, foam or carbon dioxide to extinguish fire.

**Specific hazards arising from the chemical**: Dangerous when exposed to heat or flame. Will form flammable or explosive mixtures with air at room temperature. Irritating or toxic substances may be emitted upon thermal decomposition. Thermal

Revision Date: 02/14/18

decomposition products may include oxides of carbon and nitrogen. Vapor or gas may spread to distant ignition sources and flash back. Vapors or gas may accumulate in low areas. Runoff to sewer may cause fire or explosion hazard. Containers may explode in heat of fire. Vapors may concentrate in confined areas. Liquid will float and may reignite on the surface of water.

**Special protective action for fire-fighters**: Water should be used to cool fire-exposed containers, structures and to protect personnel. Use water to dilute spills and flush them away from sources of ignition. Do not flush down sewers or other drainage systems. Exposed fire-fighters must wear NIOSH approved positive pressure self-contained breathing apparatus with full face mask and full protective clothing.

#### SECTION VI – ACCIDENTAL RELEASE MEASURES

**Personal Precautions:** Use personal protective equipment.

Keep people away from and upwind of spill/leak.

Material can create slippery conditions.

Environmental Precautions: Keep spills and cleaning runoff out of municipal sewers and open bodies of water.

**Methods of Cleaning up:** Contain spills immediately with inert materials (e.g. sand, warth).

Transfer liquids and solid diking material to separate suitable containers for recovery

or disposal.

#### SECTION VII - HANDLING AND STORAGE

#### Precautions for safe handling:

Avoid breathing dust, vapor or mist. Avoid contact with skin or clothing. Avoid contact with eyes. Use only with adequate ventilation/personal protection. Wash thoroughly after handling. Use personal protective equipment in handling and observe personal hygiene after use of the product.

**Conditions for safe storage :** Storage Temperature: Minimum :  $40^{\circ}F$  (4.44 $^{\circ}C$ )

Maximum: 100°F (37.77°C)

**Storage Period:** 12 months

Keep container closed when not in use. Protect from freezing.

#### SECTION VIII - EXPOSURE CONTROLS/PERSONAL PROTECTION

#### **Control Parameters:**

Component	CAS#	Regulation	Type of Listing	Occupational Exposure Limits
		IGOLL OFF (05	0	1 / 2 /P · 11 1 · ()
		JSOH OELs (05	TWA	1 mg/m3 (Respirable dust)
Titanium dioxide	13463-67-7	2009	TWA	4 mg/m3 (Total dust)
		US ACGIH (2011)	TWA	10 mg/m3
	1314-13-2	ACGIH	TWA	2 mg/m3
Zinc oxide			STEL	10 mg/m3
Zine oxide		OSHA	PEL	5 mg/m3 (fume, respirable fraction)
				15 mg/m3 (Total dust)
	1317-65-3	OSHA	TWA	5 mg/m3 (Respirable fraction)
Calcium Carbonate (in				15 mg/m3 (Total dust)
Limestone)		NIOSH	TWA	10 mg/m3 (Total dust)
				5 mg/m3 (respirable dust)
		ACGIH	TWA	0.025 mg/m3 (respirable fraction)
Quartz (in limestone)	14808-60-7	OSHA	TWA	0.1 mg/m3 (respirable dust)
Quartz (in limestone)		NIOSH		0.05 mg/m3 (respirable dust)

**Engineering Controls:** : Mechanical local exhaust ventilation at point of containment release.

Protective Measures : Employees should wash their hands and face before eating, drinking or using tobacco

products. Educate and train employees in the safe use and handling of this product.

EMERGENCY SHOWERS AND EYE WASH STATIONS SHOULD BE AVAILABLE.

**Eye/face Protection** : Chemical splash goggles (ANSI Z-87.1 or approved equivalent)

**Skin Protection** : Impervious (Neoprene gloves)

Respiratory Protection: Wear suitable respirator (MSHA/NIOSH approved or equivalent) where exposure

limits are exceeded.

#### SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Liquid (MILKY WHITE)

Odour: Slight amine odor
Odour threshold: Not available
pH: 8.5-10.4

Melting point/freezing point: 0°C (32°F) similar to water Boiling Point/boiling range: 100°C (212°F) similar to water

Flash Point: Not applicable (water based product), however, solid material will

support combustion if water has been evaporated.

Evaporation Rate: Not available Flammability: Not available

Upper/Lower Flammability or explosive limits: Not available

Vapor Pressure: 18 mm Hg at 20°C (68.°F) similar to water

Vapor density
Relative density:
10.5-11.7#/gal
Solubility: in water
Soluble
Partition Coefficient: n-octanol/water:
Auto-ignition temperature:
Decomposition temperature:
Viscosity:
Not available
Not available
100-115 ku

Note: The above data are typical values and must not be construed as a specification.

#### SECTION X - STABILITY AND REACTIVITY

**Reactivity**: Non-reactive

Chemical Stability: Stable

**Possibility of hazardous reactions**: None known.

Conditions/Materials to avoid: Keep from freezing/No known materials to avoid

**Incompatible Materials**: None known.

**Hazardous decomposition**: By Thermal decomposition: carbon monoxide, carbon dioxide,

acrylic monomers, other potentially toxic fumes

### SECTION XI - TOXICOLOGICAL INFORMATION

**Acute Toxicity:** 

Ticute I officity.			
Component	Acute Oral	Acute Dermal	Acute Inhalation
Titanium Dioxide	LD50 rat >5000 mg/kg	LD50:>5000 mg/kg (Rabbit)	LC50/4h/rat (dust/mist):>6.82 mg/l, 4 h (Rat)
Limestone	LD50 rat >6450 mg/kg	Not available	Not available
Zinc Oxide	Not available	Not available	LC50>2500 mg/m3, (mouse
Mixture	Not available	Not available	Not available

**Skin/Eye Irritation:** 

Titanium Dioxide Rabbit, Exposure Time, 24 h, Non-Irritating

Limestone & Zinc Oxide Not available Mixture Not available

**Mutagenicity:** 

Titanium Dioxide Genetic Toxicity in Vitro: Ames: negative (Salmonella typhimurium, Metabolic Activation:

with/without)

Genetic Toxicity in Vivo: Drosophila SLRL test: negative (Drosophila melanogaster

Limestone & Zinc Oxide Not available Not available

Carcinogenicity:

Titanium dioxide (Ti-Pure, DuPont) Rat, Male/Female, inhalation-According to IARC, several rat inhalation and

intratracheal installation studies using titanium dioxide have shown increases in benign and

malignant lung tumors.

Based upon all study results, DuPont scientists conclude that titanium dioxide will not cause

lung cancer or chronic respiratory diseases in humans at concentrations experience in the

workplace.

Reviewed human exposure data did not suggest an association between occupational exposure to titanium dioxide and cancer. Additionally, the IARC working group determined that, "No significant exposure to titanium dioxide is thought to occur during the use of products in which

titanium dioxide is bound to other material, such as in paints.'

Quartz (in Limestone) ACGIH: A2-suspected human carcinogen

NIOSH: Potential occupational carcinogen

IARC: Monograph 68 (1997) (Listed under Crystalline Silica inhaled in the form of quartz or

cristobalite

From occupational sources) (Group 1-Carcinogenic to humans)

Limestone & Zinc Oxide Not available Not available

Titanium dioxide

Sensitization:

Dermal: non-sensitizer (Guinea pig, Maximiztion Test), non-sensitizer (Human, Patch Test)

Repeated Dose toxicity: 28 days, Inhalation: NOAEL: 35mg/m3, (Rat

Quartz, zinc oxide, mixture Not available

Reproductive toxicity, STOT, Aspiration hazard- Not available for components and mixture in the products listed.

Other Toxicological Information:

\*Reviewed human exposure data did not suggest an association between occupational exposure to titanium dioxide and cancer. Additionally, the IARC working group determined that, "No significant exposure to titanium dioxide is thought to occur during the use of products in which titanium dioxide is bound to other material, such as in paints."

## SECTION XII - ECOLOGICAL INFORMATION

**Ecotoxicity:** 

Limestone

Titanium dioxide Aquatic Toxicity: 96 hr LC50: Fathead minnow>1,000mg/l; LC50: > 1000 mg/l (Golden

Orfe (Leuciscus idus), 48 hours);

Acute Toxicity to Aquatic invertebrates: EC50> 3mg/l (Water Flea (Daphnia Magna))

Toxicity to Microorganisms: EC50> 10,000 mg/l, (Pseudomas fluorescens, 24 h)

Acute and Prolonged toxicity to Fish: LC50: 56,000 mg/l (Mosquitofish (Gambusia affinis),

48 hours)

**Persistence and Degradability, Bioaccumulative Potential, Mobility in Soil**: Not available for components and mixtures in the products listed

#### SECTION XIII - DISPOSAL INFORMATION

#### **Environmental Precautions:**

Keep spills and cleaning runoff out of municipal sewers and open bodies of water.

#### **Waste Disposal Method:**

Waste disposal should be in accordance with existing federal, state and local environmental laws.

#### **Empty Container Precautions:**

Recondition or dispose of empty container in accordance with governmental regulations. Do not reuse empty container without proper cleaning.

#### SECTION XIV - TRANSPORT INFORMATION

UN Number : Not applicable
UN proper Shipping Name : Not applicable
Transport Hazard Class : Not applicable
Packing Group : Not applicable
Environmental Hazards : Not hazardous

Land Transport (DOT) : Non-Regulated

Sea Transport (IMDG) : Non-Regulated

Air Transport (ICAO/IATA) : Non-Regulated

Special Precautions : No data available

#### **SECTION XV - REGULATORY INFORMATION**

Unites States TSCA Inventory (US.TSCA): All components of this product are in compliance with the inventory listing

requirement of the U.S. Toxic Substances Control Act (TSCA) Chemical

Substance Inventory.

CERCLA Information (40CFR302.4): Release of this material to air, land, or water are not reportable to the National

Response Center under the Comprehensive Environmental Response,

Compensation, and Liability Act (CERCLA) or to the state and local emergency planning committees under the Superfund Amendments and Reauthorization Act

(SARA) Title Section 304.

SARA TITLE III, Sections 302, 304, 311, 312: This material does not contain any component listed in EPA's List of List.

#### **Workplace Classification:**

OSHA : This product is considered not hazardous under OSHA Hazard Communication Standard (29CFR

1910.1200).

WHMIS : This product and its components are not listed as a 'controlled product' under the Canadian

Workplace Hazardous Materials Information System (WHMIS).

**Proposition 65** : This product contains a chemical known to cause cancer or reproductive toxicity:

Component	CAS#	Authoritative Body	Date entered
Titanium dioxide	(none), several substances	Labor code (LC)	September 2, 2011
(airborne, unbound	for single listing		

particles of respirable size)			
Silica, crystalline (airborne	(none), several substances	State's Qualified Expert	October 1, 1988
particles of respirable size);	for single listing	(SQE)	
0.5% in Limestone			

#### SECTION XVI - OTHER INFORMATION

#### **HMIS Rating:**

Health	Flammability	Physical Hazard
1	0	0

#### Legend:

Acronym	Meaning
ACGIH	American Conference of Governmental Hygienists
OSHA	Occupational Safety Health Administration
SARA	Superfund Amendment Reauthorization Act
TRI	Toxic Release Inventory
GHS	Globally Harmonized System (of Classification and Labeling of
	Chemicals)
DOT	Department of Transportation
IMDG	International Maritime Dangerous Goods
ICAO	International Civil Aviation Organization
IATA	International Air Transport Association

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Version #: GHS-044 Revision Date: 1/25/18

Supersedes Last Revision: January 2006

This SDS adheres to the standards and regulatory requirements of the United States and has been written under the guidance of the Globally Harmonized System of Classification and Labeling of Chemicals.

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### SAFETY DATA SHEET

**TRADE NAME: CHEMSAFE 500C** 

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ISSUE DATE: 1/15/1990 REVISION DATE: 4/15/2015

#### 1. PRODUCT AND COMPANY IDENTIFICATION

#### **GHS PRODUCT IDENTIFIER:**

TRADE NAME; CHEMSAFE 500C

#### **OTHER MEANS OF IDENTIFICATION:**

#### RECOMMENDED USE OF THE CHEMICAL AND RESTRICTIONS ON USE:

RECOMMENDED USE: Particulate encapsulation.

#### **SUPPLIER'S DETAILS:**

**Aramsco**)
1480 GRANDVIEW AVE.
THOROFARE, NJ 08086
(800)767-6933

#### **EMERGENCY PHONE NUMBER:**

COMPANY PHONE NUMBER: (800)767-6933

(24HR) EMERGENCY NUMBER: CHEM-TREC (800)424-9300

### 2. HAZARD IDENTIFICATION

#### **GHS CLASSIFICATION:**

GHS CLASSIFICATION SCALE: (1=SEVERE HAZARD, 4=SLIGHT HAZARD)

SERIOUS EYE DAMAGE IRRITATION CATEGORY 2B

**LABEL ELEMENTS:** 

SIGNAL WORD: WARNING

**HAZARD STATEMENTS:** 

Causes eye irritation

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#### **HAZARD SYMBOLS:**

#### PRECAUTIONARY STATEMENTS:

Keep out of reach of children Avoid breathing dust/mist/vapors/spray. Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection

### PRECAUTIONARY STATEMENTS (RESPONSE):

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if easy to do. Continue rinsing. If eye irritation persists, get medical advice/attention.

#### PRECAUTIONARY STATEMENTS (STORAGE)

Keep out of reach of children

#### PRECAUTIONARY STATEMENTS (DISPOSAL):

Dispose of contents/container to an approved waste disposal plant in accordance with applicable local/regional/national and international regulations and product characteristics at time of disposal.

#### **OTHER HAZARDS:**

Repeated or prolonged exposure can cause skin dryness or cracking.

### 3. COMPOSITION INFORMATION ON INGREDIENTS

INGREDIENT IDENTITY	CAS NUMBER	PERCENTAGE
Acrylic emulsion		PROPRIETARY

REMAINING INGREDIENTS ARE NOT REPORTABLE UNDER OSHA/SDS GUIDELINES. THE EXACT PERCENTAGES OF SOME INGREDIENTS HAVE BEEN WITHELD AS (CBI) CONFIDENTIAL BUSINESS INFORMATION TRADE SECRET.

### 4. FIRST AID MEASURES

INGESTION: If swallowed, wash out mouth with water. Do not induce vomiting unless told to do so by a doctor or professional healthcare provider. If spontaneous vomiting occurs, keep head below hips to prevent aspiration of liquid into the lung. Never give anything by mouth to an unconscious person.

PAGE 3 OF 8

SKIN CONTACT: In case of accidental skin contact, remove contaminated clothing. Wash with soap and plenty of water for 15 minutes. Wash contaminated clothing before reuse. If irritation occurs get medical advice.

INHALATION: No irritation expected; however if irritation occurs, move individual away from exposure and into fresh air. If breathing is irregular or stopped, administer artificial respiration. In case of shortness of breath, give oxygen. Call a physician immediately.

EYE CONTACT: If in eyes, rinse cautiously with water for several minutes. Remove contact lenses if easy to do. Continue rinsing. If eye irritation persists, get medical attention/advice.

#### Most Important Symptoms and Effects, Acute and Delayed

INGESTION: Symptoms may include diarrhea, gastric pain, and vomiting. SKIN CONTACT: Symptoms may include redness, dryness and cracking of skin.

INHALATION: Not expected; however symptoms could include irritation of respiratory tract.

EYE CONTACT: Symptoms may include stinging, tearing, redness and blurred vision.

### Indication of immediate medical attention and special treatment needed, if necessary.

Treat Symptomatically.

### **5.** FIRE FIGHTING MEASURES

**Suitable extinguishing media**: Use fire extinguishers suitable for surrounding fire. **Unsuitable extinguishing media**- Not flammable

**Specific hazards arising from the chemical:** In a fire or if heated, a pressure increase can occur and the container may burst.

Hazardous thermal decomposition products: carbon monoxide and CO2, possibly ammonia, irritating gases

**Special protective actions for fire-fighters:** Keep product containers and surrounding areas cool with water spray. No action shall be taken involving any personal risk or without suitable training.

**Special protective equipment for fire-fighters**: Fire fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

### 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures:

**For non-emergency personnel:** No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Provide adequate ventilation. Avoid breathing mists. Put on appropriate personal protective equipment. Wear appropriate respirator when ventilation is inadequate.

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**For emergency responders:** If specialized clothing is required to deal with the spillage, take note of information in section 8 for further information. See also information in non-emergency personnel above.

**Environmental precautions:** Avoid dispersal of spilled material with waterways, drains and sewers. See section 12 for additional ecological information.

### Methods and materials for containment and cleaning up.

**Small spill:** Stop leak if without risk. Move containers from the spill area Absorb with an inert dry material such as diatomaceous earth or vermiculite and place in an appropriate waste disposal container. Mop any remaining residues with soap and water and dispose of wastes via a licensed waste disposal contractor according to federal, state and local regulations.

**Large spill:** Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, drains, water courses and confined areas. Wash spillages into an effluent treatment plant or absorb with an inert dry material such as diatomaceous earth or vermiculite and place in a appropriate waste disposal containers. Mop any remaining residues with soap and water and dispose of wastes via a licensed waste disposal contractor according to federal, state and local regulations.

### 7. HANDLING AND STORAGE

### **Precautions for Safe Handling:**

**Safe Handling Advice:** Utilize appropriate personal protective equipment when handling product. Do not swallow. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mists. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container and tightly closed when not in use. Wash face, hands and any exposed skin thoroughly after handling. Wear protective gloves/protective clothing/eye protection and face protection during use. Emptied containers can contain product residues and require handling with all safety precautions in mind listed on this sds. Do not reuse container and dispose of in accordance with federal, state and local regulations.

**Advice on general occupational hygiene**: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also section 8 for additional hygiene information.

### Conditions for safe storage including any incompatibilities:

Store in original container in a dry, cool and well ventilated area away from strong oxidizing agents (see section 10) and food and drink. Keep container tightly closed when not in use and away from children. Do not store in unlabeled containers. Do not freeze.

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### 8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

Control Parameters Occupational Exposure Limits

Ingredient Identity ACGIH TLV OSHA PEL NIOSH IDLH

No Components found

### **Appropriate Engineering Controls**

**Engineering Controls:** Use only with adequate ventilation. General room ventilation is required. Local mechanical ventilation may be necessary if working with this product in enclosed areas and/or at elevated temperatures. Maintain adequate ventilation. Avoid creating dust or mist. Do not use in closed or confined spaces without adequate ventilation.

### Individual protection measures, such as personal protective equipment. (PPE)

**Eye/Face Protection**: Wear approved safety goggles with side shields. Wear additional eye protection such as chemical safety goggles and/or face shield when the possibility exists for eye contact with splashing or spraying liquid, or airborne material.

**Skin & Body Protection:** Wear chemical resistant, impervious gloves at all times when handling chemical products. Check during use that gloves are still retaining their impervious properties, as the time for breakthrough can change from different manufacturers and chemical mixtures can not always be accurately measured. Appropriate footwear and suitable protective clothing should be worn for the degree and risk of exposure.

**Respiratory Protection:** If workplace exposure limits of product or any component is exceeded, utilize proper respiratory protection program guidelines (see OSHA 1910.134 and American National Standard ANSI Z88.2) Use a properly fitted, NIOSH/MSHA air-purifying or air-fed respirator with organic vapor cartridge and dust/mist filter in compliance with the above mentioned standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: white opaque liquid

Odor: near odorless

Odor threshold: not available

pH: not applicable

Melting Point/Freezing Point: N.D.

Initial Boiling Point/Range: not applicable

Flash Pt: not flammable

Evaporation Rate: N.D. (butyl acetate=1) Lower explosive limits: not applicable Upper explosive limits: not applicable

Vapor Pressure: N.D.

Vapor Density: N.D. (air=1)

Relative Density: .997

Solubility in water: Emulsifies Partition coefficient: not applicable Auto ignition temp: not applicable Decomposition Temp: not available

Viscosity: pourable liquid, water thin viscosity

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## 10. STABILITY AND REACTIVITY

Reactivity: No data available

Chemical Stability: Stable under recommended storage conditions.

Possibility of Hazardous Reactions: No data available

Conditions to Avoid: elevated temperatures

Incompatible Materials: Oxidizing materials

Hazardous Decomposition Products: Carbon monoxide and Carbon Dioxide, irritating vapors.

### 11. TOXICOLOGICAL INFORMATION

Acute toxicity: no components found or no data available

Skin corrosion irritation: not classified,

Serious Eve damage: classified 2B

Sensitization: Not classified,

Mutagenicity: Not classified,

Carcinogenicity: Not classified

Reproductive Toxicity: No data evailable

Teratogenicity: No data Available

**Specific target Organ Toxicity (single exposure)** 

Not classified

**Specific target Organ Toxicity (repeated exposure):** 

Name category route of exposure target organs

Not classified

**Aspiration Hazard:** 

No Data

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### **Information on the likely routes of exposure:**

**Ingestion:** May be harmful if swallowed. **Inhalation:** Do not breathe vapors or mists.

Skin: Avoid contact with skin. Wash skin with soap and water for 15 minutes.

Eye: Causes serious eye irritation

### Symptoms related to the physical, chemical and toxicological characteristics

Ingestion: See section iv, most important symptoms and effects, acute and delayed.
Inhalation: See section iv, most important symptoms and effects, acute and delayed.
Skin: See section iv, most important symptoms and effects, acute and delayed.
Eye: See section iv, most important symptoms and effects, acute and delayed.

### Delayed and immediate effects and also chronic effects from short and long term exposure.

General: Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis Carcinogenicity: no known significant effects or critical hazards. Not classifiable.

### **Numerical measures of Toxicity**

Not Available

### 12. ECOLOGICAL INFORMATION

#### **Toxicity:**

No data

#### **Bioaccumulation Potential:**

No data

#### **Mobility in Soil:**

No data

#### **Other adverse Effects:**

No known significant effects or critical hazards

### 13. DISPOSAL CONSIDERATIONS

Dispose in accordance with applicable federal, state and local regulations.

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#### 14. TRANSPORTATION INFORMATION

DOT:NOT REGULATEDIATA:NOT REGULATEDIMDG:NOT REGULATED

#### 15. REGULATORY INFORMATION

**U.S. FEDERAL REGULATIONS:** All ingredients are listed or exempted with TSCA.

SARA 302/304: No products were found.

SARA 311/312: Acute,

SARA 313: No products found

California Prop 65: No products found

#### 16. OTHER INFORMATION

HMIS RATING: HEALTH (1) FIRE (0) REACTIVITY (0)

4=EXTREME, 3=HIGH, 2=MODERATE, 1=SLIGHT, 0=INSIGNIFICANT

#### NOTICE TO READER:

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. The information on this sds was obtained from sources which we believe are reliable. However, the information is provided without any warranty, expressed or implied, regarding its correctness. Users are advised to confirm in advance of need, that information is current, applicable and suited to the circumstances of use. Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the sds. Furthermore, vendor assumes no responsibility for injury caused by abnormal use of this material even if reasonable safety procedures are followed.



Safety Data Sheet

Prepared according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 1/12/2016 Supersedes: All previous versions Version: 1.0

#### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Product name : Sentinel 24-7 Zero White Mold & Mildew Resistant Coating with Antimicrobial Product

Protection

Product form : Mixture

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Uses of the substance/Mixture : Antimicrobial coating for interior use

#### 1.3. Details of the supplier of the safety data sheet

Sentinel Products Inc. 8901 Wyoming Avenue North Brooklyn Park, MN 55445 Phone: (763) 571-0630 Toll-free: (800)-373-0633 www.senpro.com

#### 1.4. Emergency telephone number

Emergency number : 1-866-359-5661

#### **SECTION 2: Hazards identification**

#### 2.1. Classification of the substance or mixture

#### Classification (GHS-US)

Eye Irritation 2B H320 Carcinogenicity 2 H351 Reproductive Toxicity 2 H361

#### 2.2. Label elements

#### **GHS-US** labeling

Hazard pictograms (GHS-US)



Signal word (GHS-US) : Warning

Hazard statements (GHS-US) : H320 - Causes eye irritation.

H351 - Suspected of causing cancer.

H361 - Suspected of damaging fertility or the unborn child.

Precautionary statements (GHS-US) : P264 - Wash hands thoroughly after handling. P201 - Obtain special instructions before use.

P202 - Do not handle until all safety precautions have been read and understood. P280 - Wear eye protection, protective clothing, protective gloves, face protection.

P280 - Wear eye protection, protective clothing, protective gloves, face protection.

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do so. Continue rinsing. P337+P313 - If eye irritation persists: Get medical advice/attention.

P308+P313 - If exposed or concerned: Get medical advice.

P405 - Store locked up.

P501 - Dispose of contents/container to licensed waste handling facility.

#### 2.3. Other hazards

No additional information available

#### 2.4. Unknown acute toxicity (GHS-US)

No data available

#### **SECTION 3: Composition/information on ingredients**

#### 3.1. Substance

Not applicable

#### 3.2. Mixture

Name	Product identifier	%
Titanium dioxide	(CAS No) 13463-67-7	10 - 30
Zinc pyrithione	(CAS No) 13463-41-7	Proprietary*

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\*The specific chemical identity and exact percentage of composition has been withheld as a trade secret

#### **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

First-aid measures general : If exposed or concerned, get medical attention/advice. Show this safety data sheet to the

doctor in attendance. Wash contaminated clothing before re-use. Never give anything to an

unconscious person.

First-aid measures after inhalation : IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. Get

medical attention if breathing is affected. If breathing is difficult, supply oxygen.

First-aid measures after skin contact : IF ON SKIN (or clothing): Remove affected clothing and wash all exposed skin with water for at

least 15 minutes. If irritation develops or persists, get medical attention.

First-aid measures after eye contact : IF IN EYES: Immediately flush with plenty of water for at least 15 minutes. Remove contact

lenses if present and easy to do so. If pain, blinking, or irritation develops or persists, get

medical attention. Continue rinsing.

First-aid measures after ingestion : IF SWALLOWED: Rinse mouth thoroughly. Do not induce vomiting without advice from poison

control center or medical professional. Seek medical attention.

#### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries after inhalation : May cause respiratory irritation. Symptoms/injuries after skin contact : May cause skin irritation.

Symptoms/injuries after eye contact : Direct contact with the eyes is likely to be irritating.

Symptoms/injuries after ingestion : May cause gastrointestinal irritation.

#### 4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

#### **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide.

Unsuitable extinguishing media : Water may be unsuitable as an extinguishing media, but helpful in keeping adjacent containers

cool.

#### 5.2. Special hazards arising from the substance or mixture

Fire hazard : Not determined.

Explosion hazard : Not determined.

Reactivity : No data available.

5.3. Advice for firefighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any

chemical fire. Do not dispose of fire-fighting water in the environment.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

#### **SECTION 6: Accidental release measures**

#### 6.1. Personal precautions, protective equipment and emergency procedures

General measures : No specific emergency measures are required other than good laboratory hygiene and safety

practices

6.1.1. For non-emergency personnel

Protective equipment : Wear Protective equipment as described in Section 8.

Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Wear suitable protective clothing, gloves and eye or face protection. Approved supplied-air

respirator, in case of emergency.

#### 6.2. Environmental precautions

Avoid release to the environment. Keep out of sewer, streams, lakes, and other groundwaters.

#### 6.3. Methods and material for containment and cleaning up

For containment : Contain any spills with dikes or absorbents to prevent migration and entry into sewers or

streams.

Methods for cleaning up : Solidify spills with inert solids, such as clay, vermiculite or diatomaceous earth as soon as possible. Place in a suitable container for disposal in accordance with the waste regulations

(see Section 13).

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#### Reference to other sections

No additional information available

#### SECTION 7: Handling and storage

#### Precautions for safe handling

Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or

smoking and when leaving work. Keep container closed when not in use.

#### Conditions for safe storage, including any incompatibilities

Technical measures : Does not require any specific or particular technical measures.

Storage conditions Store in dry, well-ventilated area. Keep container tightly closed in original container protected

from sunlight. Keep from freezing. Store locked up.

#### 7.3. Specific end use(s)

No additional information available

#### **SECTION 8: Exposure controls/personal protection**

#### **Control parameters**

Titanium Dioxide (13463-67-7)	
Remark (ACGIH)	TWA - 10 mg/m <sup>3</sup>
Remark (US OSHA)	PEL - 15 mg/m <sup>3</sup>

#### 8.2. **Exposure controls**

Appropriate engineering controls : Provide adequate general and local exhaust ventilation. Use process enclosures, local exhaust

ventilation, or other engineering controls to control airborne levels below recommended

exposure limits. Ensure adequate ventilation, especially in confined areas.

Personal protective equipment : Gloves. Wear protective clothing. Protective goggles.







Hand protection Use gloves chemically resistant to this material when prolonged or repeated contact could

occur. Gloves should be classified under Standard EN 374 or ASTM F1296. Suggested glove materials are: Neoprene, Nitrile/butadiene rubber, Polyethylene, Ethyl vinyl alcohol laminate, PVC or vinyl. Suitable gloves for this specific application can be recommended by the glove

supplier.

Eye protection Use eye protection suitable to the environment. Avoid direct contact with eyes.

Skin and body protection Wear long sleeves, and chemically impervious PPE/coveralls to minimize bodily exposure. Respiratory protection

Where vapor, mist, or dust exceed PELs or other applicable OELs, use NIOSH-approved

respiratory protective equipment.

#### **SECTION 9: Physical and chemical properties**

#### 9.1. Information on basic physical and chemical properties

Physical state : Liquid

Color : White, dries White, Odor Slight latex No data available Odor Threshold

: 9.8 Relative evaporation rate (butylacetate=1) : <1. water

Melting point : No data available Freezing point : 0 °C (32 °F) Boiling point : 100 °C (212 °F) Flash point : > 93 °C (calculated) Auto-ignition temperature No data available Decomposition temperature No data available Flammability (solid, gas) : No data available Vapour pressure : No data available Relative vapour density at 20 °C No data available

Relative density

Solubility : No data available Log Pow : No data available

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: No data available

Viscosity, kinematic 102 KU

Viscosity, dynamic No data available Explosive properties : No data available Oxidising properties : No data available **Explosive limits** : No data available

#### Other information 9.2.

No additional information available

#### **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

No data available

#### Chemical stability

Stable under recommended handling and storage conditions (see section 7).

#### 10.3. Possibility of hazardous reactions

None known

#### 10.4. Conditions to avoid

Excessive heat which may cause the closed container to rupture. Excessive cold which may cause the closed container to rupture.

#### Incompatible materials 10.5

None known.

#### 10.6. Hazardous decomposition products

Thermal decomposition may yield monomers, carbon monoxide, carbon dioxide, nitrogen oxides (NO<sub>x</sub>), and Sulphur Dioxide (SO<sub>2</sub>).

#### **SECTION 11: Toxicological information**

#### Information on toxicological effects 11.1.

Acute toxicity : Not classified - Based on ingredients and their concentrations in the product, the product is not

classified as acutely toxic.

Skin corrosion/irritation Not classified - Based on ingredients and their concentrations in the product, the product is not

classified for skin irritation.

Serious eye damage/irritation No data for the mixture. Based on ingredients and their concentrations in the product, the

product is classified as Category 2B: causes eye irritation.

Not classified - Based on ingredients and their concentrations in the product, the product is not Respiratory or skin sensitisation

classified for respiratory or skin sensitization.

Germ cell mutagenicity Not classified - Based on ingredients and their concentrations in the product, the product is not

classified for germ cell mutagenicity.

: No data for the mixture. Based on ingredients and their concentrations in the product, the Carcinogenicity

product is classified as Category 2: Suspected of causing cancer. IARC: Titanium Dioxide: Group 2B: possibly carcinogenic to humans.

Reproductive toxicity No data for the mixture. Based on ingredients and their concentrations in the product, the

product is classified as Category 2: Suspected of damaging fertility or the unborn child.

Specific target organ toxicity (single exposure) : Not classified - Based on ingredients and their concentrations in the product, the product is not

classified for STOT - single exposure.

Specific target organ toxicity (repeated

exposure)

Not classified - Based on ingredients and their concentrations in the product, the product is not

classified for STOT - repeated exposure.

Aspiration hazard No data for the mixture. Based on ingredients and their concentrations in the product, and the

viscosity of the product, the product is not classified as an aspiration hazard.

Symptoms/injuries after inhalation No data for the mixture Symptoms/injuries after skin contact No data for the mixture.

Symptoms/injuries after eye contact No data for the mixture. Based on ingredients and their concentrations in the product, the

product causes eye irritation.

Symptoms/injuries after ingestion : No data for the mixture.

Additional information: No data is available for the mixture. The information shown is based on the profiles of the ingredients and their concentrations in the product.

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### **SECTION 12: Ecological information**

#### 12.1. Toxicity

Ecology - general : Aquatic toxicity rating not determined. All possible measures should be taken to prevent

release into the environment.

#### 12.2. Persistence and degradability

Sentinel 24-7 Zero White Mold & Mildew Resis	stant Coating
Persistence and degradability	Not established.

#### 12.3. Bioaccumulative potential

No additional information available

#### 12.4. Mobility in soil

No additional information available

#### 12.5. Other adverse effects

No additional information available

#### **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

Waste treatment methods : Do not dump in any sewers, on the ground or into any body of water.

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.

#### **SECTION 14: Transport information**

In accordance with DOT Not hazardous for transport Additional information

Other information : No supplementary information available.

#### Transport by sea

No additional information available

#### Air transport

No additional information available

### **SECTION 15: Regulatory information**

#### 15.1. US Federal regulations

#### Sentinel 24-7 Zero White Mold & Mildew Resistant Coating

All chemical substances in this product are listed in the EPA (Environment Protection Agency) TSCA (Toxic Substances Control Act) Inventory

Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and Community Right-to-Know Act of 1986) Sections 313: Zinc compounds.

#### 15.2. International regulations

#### CANADA

No additional information available

#### 15.3. US State regulations

Component	CAS#	State
Ethylene oxide	75-21-8	California, Massachusetts, New Jersey, Pennsylvania, Rhode Island
Titanium Dioxide	13463-67-7	New Jersey, Pennsylvania, Rhode Island
Titanium dioxide and silicon dioxide, amorphous	13463-67-7 and 7631-86-9	New Jersey, Pennsylvania
Zinc oxide fume	1314-13-2	Massachusetts
Zinc compounds; zinc oxide	13463-41-7, 1314-13-2	New Jersey, Pennsylvania

California Proposition 65: WARNING! This product contains chemicals known to the state of California to cause cancer, birth defects, or other reproductive harm.

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#### **SECTION 16: Other information**

Indication of changes : Revision 1.0: - 12 January 2016 - New SDS Created.

:

Other information : Author: KAD

NFPA health hazard : 1 - Exposure could cause irritation but only minor residual

injury even if no treatment is given.

NFPA fire hazard : 0 - Materials that will not burn.

NFPA reactivity : 0 - Normally stable, even under fire exposure conditions,

and are not reactive with water.



### **HMIS III Rating**

Health : 1
Flammability : 0
Physical : 0
Personal Protection :

The information in this document is believed to be correct as of the date issued. However, no warranty of merchantability, fitness for any particular purpose, or any other warranty is expressed or is to be implied regarding the accuracy or completeness of this information, the results to be obtained from the use of this product or the hazards related to its use. This information and product are furnished on the condition that the person receiving them shall make his own determination as to the suitability of the product for his particular purpose and on the condition that he assume the risk of his use thereof.



## **Remover** Safety Data Sheet

Prepared according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Revision date: 08/04/2016 Supersedes: All previous versions Version: 1.0

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Product name : Sentinel 207W Carpet & Sheet Vinyl Adhesive Remover

Product form : Mixture

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Flooring adhesive removal

#### 1.3. Details of the supplier of the safety data sheet

Sentinel Products Inc. 8901 Wyoming Avenue North Brooklyn Park, MN 55445 Phone: (763) 571-0630

Toll-free: (800)-373-0633 www.senpro.com

#### 1.4. Emergency telephone number

Emergency number : 1-866-359-5661

#### **SECTION 2: Hazards identification**

#### 2.1. Classification of the substance or mixture

#### Classification (GHS-US)

Acute Toxicity - Oral Category 4 H302 Skin Irritation Category 1 H314 Eye Irritation Category 1 H318

#### 2.2. Label elements

#### **GHS-US** labeling

Hazard pictograms (GHS-US)





Signal word (GHS-US) : Danger

Hazard statements (GHS-US) : H302 - Harmful if swallowed

H314 - Causes sever skin burns and eye damage

H318 - Causes serious eye damage

Precautionary statements (GHS-US) : P260 - Do not breathe dusts or mists.

P270 - Do not eat, drink or smoke when using this product.

P264 - Wash hands thoroughly after handling.

P280 - Wear eye protection, protective clothing, protective gloves.

P301+P330+P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P312 - Call a POISON CENTER or doctor/physician if you feel unwell.

P303+P361+P353 - IF ON SKIN (or hair): Remove immediately all contaminated clothing. Rinse

skin with water/shower.

P363 - Wash contaminated clothing before reuse.

P304+P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable

for breathing.

P310 - Immediately call a POISON CENTER or doctor/physician.

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do so. Continue rinsing. P310 - Immediately call a POISON CENTER or doctor/physician.

P405 - Store locked up

P501 - Dispose of contents/container to licensed waste handling facility in accordance with

local/regional/national regulations.

#### 2.3. Other hazards

No additional information available

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#### 2.4. Unknown acute toxicity (GHS-US)

No data available

#### **SECTION 3: Composition/information on ingredients**

#### 3.1. Substance

Not applicable

#### 3.2. **Mixture**

Name	Product identifier	%
Benzyl Alcohol	(CAS No) 100-51-6	Proprietary*
2-(2-butoxyethoxy)ethanol	(CAS No) 112-34-5	Proprietary*
Surfactant	(CAS No) Proprietary*	Proprietary*

<sup>\*</sup>The specific chemical identity and/or exact percentage of composition has been withheld as a trade secret

#### SECTION 4: First aid measures

#### Description of first aid measures

First-aid measures general

: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice

(show the label where possible).

First-aid measures after inhalation

: IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a POISON CENTER or doctor/physician if you feel unwell.

First-aid measures after skin contact

: IF ON SKIN: Immediately rinse with plenty of soap and water (for at least 15 minutes). Remove

contaminated clothing and shoes, wash before reuse. Seek medical advice/attention.

First-aid measures after eye contact

: IF IN EYES: Rinse immediately and thoroughly, pulling the eyelids well away from the eye (15  $\,$ minutes minimum). Remove contact lenses, if present and easy to do so. Continue rinsing. Seek medical advice/attention

First-aid measures after ingestion

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Do NOT induce

vomiting. Obtain emergency medical attention.

#### 4.2 Most important symptoms and effects, both acute and delayed

Symptoms/injuries

Chronic symptoms

: May be fatal if swallowed and enters airways.

Symptoms/injuries after inhalation

: Inhalation in high concentrations may cause irritation of the mucous membranes. Aspiration of

this material into the lungs may cause chemical pneumonia or death.

Symptoms/injuries after skin contact

: Contact likely to cause irritation. Persons with a pre-existing skin condition may be more

susceptible to the effects of this product.

Symptoms/injuries after eye contact

Direct contact with the eyes is likely to be irritating

Symptoms/injuries after ingestion

May be irritating to the mucous membranes

: No data available.

#### Indication of any immediate medical attention and special treatment needed

No additional information available

#### **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

Suitable extinguishing media : Dry chemical. Carbon dioxide. Foam.

#### Special hazards arising from the substance or mixture

Explosion hazard

: Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns

and injuries.

: No dangerous reactions known under normal conditions of use. Reactivity

5.3. Advice for firefighters

Firefighting instructions

: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any

chemical fire. Do not dispose of fire-fighting water in the environment.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

#### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

General measures

: Evacuate area. Keep upwind. Ventilate area. Spill should be handled by trained clean-up crews properly equipped with respiratory equipment and chemical protective gear (see Section 8).

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#### 6.1.1. For non-emergency personnel

Protective equipment : Wear Protective equipment as described in Section 8.

Emergency procedures : Evacuate unnecessary personnel.

#### 6.1.2. For emergency responders

Protective equipment : Wear suitable protective clothing, gloves and eye or face protection. Approved supplied-air

respirator, in case of emergency.

#### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters. Avoid release to the environment.

#### 6.3. Methods and material for containment and cleaning up

For containment : Stop leak at source if this can be done safely. Contain any spills with dikes or absorbents to

prevent migration and entry into sewers or streams. Ventilate area. Foam may be used to

suppress vapors.

Methods for cleaning up : Pump liquid into DOT approved drums for disposal. Soak up remaining liquid with inert solids,

such as clay or diatomaceous earth as soon as possible. Place in a suitable container for disposal in accordance with the waste regulations (see Section 13). Wash residue with water.

Keep concentrate and wash water from entering sewers or waterways.

#### 6.4. Reference to other sections

No additional information available

#### **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

Precautions for safe handling : Do not handle until all safety precautions have been read and understood. Wash hands and other exposed areas with mild scan and water before eating drinking or smeking and when

other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. Do not

breathe mists.

#### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep only in the original container in a cool, well ventilated place away from : Heat sources.

Direct sunlight.

Keep container closed when not in use. Do not allow product to freeze as container may fail.

#### 7.3. Specific end use(s)

No additional information available

#### **SECTION 8: Exposure controls/personal protection**

#### 8.1. Control parameters

Benzyl Alcohol (100-51-6)	
Remark (ACGIH)	OELs not established
Remark (US OSHA)	OELs not established

2-(2-butoxyethoxy)ethanol (112-34-5)	
Remark (ACGIH)	TWA - 10 ppm
Remark (US OSHA)	OELs not established

Surfactant (Proprietary*)	
Remark (ACGIH)	OELs not established
Remark (US OSHA)	OELs not established

#### 8.2. Exposure controls

Appropriate engineering controls : Ensure adequate ventilation, especially in confined areas.

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Personal protective equipment

: Gloves. Protective goggles. Respiratory protection of the dependent type may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits



Hand protection : Use gloves chemically resistant to this material when prolonged or repeated contact could occur.

Gloves should be classified under Standard EN 374 or ASTM F1296. Suggested glove materials are: Natural rubber ("latex"), Neoprene, Nitrile/butadiene rubber, Polyethylene, Ethyl vinyl

alcohol laminate, PVC or vinyl.

Eye protection : Eye protection, including both chemical splash goggles and face shield, must be worn when

possibility exists for eye contact due to spraying liquid or airborne particles.

Skin and body protection : Wear suitable protective clothing as desired.

Respiratory protection : An approved organic vapor respirator/supplied air or self-contained breathing apparatus must be

used when vapor concentration exceeds applicable exposure limits.

#### **SECTION 9: Physical and chemical properties**

### 9.1. Information on basic physical and chemical properties

Physical state : Liquid
Appearance : Clear

Color : None to amber

Odor : Sharp

Odor Threshold : No data available

pH : 8.0 - 9.0

Relative evaporation rate (butyl acetate=1) : No data available Melting point : No data available Freezing point : No data available Boiling point : >94 °C (200 °F)

Flash point : >94 °C (200 °F) Method: TCC

Self ignition temperature No data available Decomposition temperature : No data available Flammability (solid, gas) : No data available Vapor pressure No data available Relative vapor density at 20 °C No data available Relative density : No data available Solubility No data available Log Pow : No data available No data available Log Kow Viscosity, kinematic No data available : No data available Viscosity, dynamic Explosive properties No data available Oxidizing properties : No data available **Explosive limits** : No data available

#### **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

No dangerous reactions known under normal conditions of use.

#### 10.2. Chemical stability

Stable under recommended handling and storage conditions (see section 7).

#### 10.3. Possibility of hazardous reactions

None known.

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#### 10.4. Conditions to avoid

Sparks. Heat. Open flame. Freezing.

#### 10.5. Incompatible materials

Strong acids. Oxidizers.

#### 10.6. Hazardous decomposition products

Thermal decomposition generates: Oxides of carbon.

#### **SECTION 11: Toxicological information**

#### 11.1. Information on toxicological effects

: Oral - Category 4 - Harmful if swallowed Acute toxicity

Benzyl Alcohol (100-51-6)	
LD50 oral	> 1200 mg/kg
LD50 dermal	> 2000 mg/kg

2-(2-butoxyethoxy)ethanol (112-34-5)	
LD50 oral rat	> 4500 mg/kg
LD50 dermal rabbit	> 2500 mg/kg

Surfactant (Proprietary*)	
LD50 oral rat	> 1400 mg/kg
LD50 dermal rabbit	> 2000 mg/kg

Skin corrosion/irritation : Skin Irritant Category 1 - Causes severe skin burns and eye damage

Serious eye damage/irritation Eye Irritant Category 1 - Causes serious eye damage

Not classified Respiratory or skin sensitization Germ cell mutagenicity : Not classified Carcinogenicity : Not classified Reproductive toxicity : Not classified

Specific target organ toxicity (single exposure) : Not classified

Specific target organ toxicity (repeated

exposure)

: Not classified

Aspiration hazard : May be fatal if swallowed and enters airways.

Inhalation in high concentrations may cause irritation of the mucous membranes. Aspiration of Symptoms/injuries after inhalation

this material into the lungs may cause chemical pneumonia or death.

Symptoms/injuries after skin contact Contact likely to cause irritation. Persons with a pre-existing skin condition may be more

susceptible to the effects of this product.

: Direct contact with the eyes is likely to be irritating. Symptoms/injuries after eye contact Symptoms/injuries after ingestion : May be irritating to the mucous membranes

Chronic symptoms : No data available.

#### **SECTION 12: Ecological information**

#### 12.1. **Toxicity**

No additional information available

#### 12.2. Persistence and degradability

No additional information available

#### Bioaccumulative potential

No additional information available

#### 12.4. Mobility in soil

No additional information available

#### Safety Data Sheet

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#### 12.5. Other adverse effects

No additional information available

#### **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

Waste treatment methods : Do not discharge to public wastewater systems without permit of pollution control authorities. No

discharge to surface waters is allowed without an NPDES permit.

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. Do not allow the product

to be released into the environment.

### **SECTION 14: Transport information**

In accordance with DOT

Transport document description : Cleaning Compound Department of Transportation (DOT) Hazard : Not Regulated

Classes

#### Transport by sea

No additional information available

#### Air transport

No additional information available

In accordance with ADR / RID / IMDG / IATA / ADN

#### **SECTION 15: Regulatory information**

#### 15.1. US Federal regulations

#### Sentinel 207W Carpet & Sheet Vinyl Adhesive Remover

All chemical substances in this product are listed or exempt from listing in the EPA (Environmental Protection Agency) TSCA (Toxic Substances Control Act) Inventory

SARA Section 311/312 Hazard Classes Immediate (acute) health hazard

#### Benzyl Alcohol (100-51-6)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

#### 2-(2-butoxyethoxy)ethanol (112-34-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

#### Surfactant (Proprietary\*)

Components Listed on the United States TSCA (Toxic Substances Control Act) inventory

#### 15.2. International regulations

#### CANADA

#### 2-(2-butoxyethoxy)ethanol (112-34-5)

Listed on the Canadian DSL (Domestic Substances List) inventory.

#### Surfactant (Proprietary\*)

Listed on the Canadian DSL (Domestic Substances List) inventory

No additional information available

#### 15.2.2. National regulations

#### 2-(2-butoxyethoxy)ethanol (112-34-5)

Listed on Inventory of Existing Chemical Substances (IECSC)

Listed on the AICS (the Australian Inventory of Chemical Substances)

Listed on the Japanese ENCS (Existing & New Chemicals Substances) inventory.

Listed on the Korean ECL (Existing Chemical List) inventory.

Listed on the Philippines CCS (Chemicals & Chemical Substances) inventory.

#### Safety Data Sheet

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#### Surfactant (Proprietary\*)

Listed on Inventory of Existing Chemical Substances (IECSC)

Listed on the AICS (the Australian Inventory of Chemical Substances)

Listed on the Japanese ENCS (Existing & New Chemicals Substances) inventory.

Listed on the Korean ECL (Existing Chemical List) inventory.

Listed on the Philippines CCS (Chemicals & Chemical Substances) inventory.

#### 15.3. US State regulations

#### **California Proposition 65**

This product does not contain any substances known to the state of California to cause cancer and/or reproductive harm

#### **SECTION 16: Other information**

Indication of changes : Revision 1.0 - 04 August 2016 - New SDS created

Other information : Author. KAD

NFPA health hazard : 1 - Exposure could cause irritation but only minor residual

injury even if no treatment is given.

NFPA fire hazard : 1 - Must be preheated before ignition can occur. Materials

in this degree require considerable preheating, under all ambient temperature condition, before ignition and

combustion can occur.

NFPA reactivity : 0 - Normally stable, even under fire exposure conditions,

and are not reactive with water.



#### **HMIS III Rating**

Health : 1
Flammability : 1
Physical : 0
Personal Protection :

The information in this document is believed to be correct as of the date issued. However, no warranty of merchantability, fitness for any particular purpose, or any other warranty is expressed or is to be implied regarding the accuracy or completeness of this information, the results to be obtained from the use of this product or the hazards related to its use. This information and product are furnished on the condition that the person receiving them shall make his own determination as to the suitability of the product for his particular purpose and on the condition that he assume the risk of his use thereof.



Safety Data Sheet

Prepared according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Revision date: 07/08/2015

Supersedes: All previous versions

#### SECTION 1: Identification of the substance/mixture and of the company/undertaking

Product identifier 1.1.

Product name

Sentinel 805 Envirotowels

\*This Safety Data Sheet is provided for the liquid portion of this product

Product form

: Mixture

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture

: Lead Dust Cleanup

Details of the supplier of the safety data sheet

Sentinel Products Inc. 8901 Wyoming Avenue North Brooklyn Park, MN 55445 Phone: (763) 571-0630 Toll-free: (800)-373-0633 www.senpro.com

1.4. Emergency telephone number

Emergency number

: 1-866-359-5661

#### **SECTION 2: Hazards identification**

#### Classification of the substance or mixture 2.1,

Classification (GHS-US)

Skin Irritation Category 2

H315

Eye Irritation Category 1

H318

#### 2.2. Label elements

#### **GHS-US labeling**

Hazard pictograms (GHS-US)



GHS05

Signal word (GHS-US)

: Danger

Hazard statements (GHS-US)

: H315 - Causes skin irritation H318 - Causes serious eye damage

Precautionary statements (GHS-US)

P264 - Wash hands thoroughly after handling.

P280 - Wear eye protection, protective clothing, protective gloves P302+P352 - IF ON SKIN: Wash with plenty of soap and water. P332+P313 - If skin irritation occurs: Get medical advice/attention. P362 - Take off contaminated clothing and wash before reuse.

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do so. Continue rinsing. P310 - Immediately call a POISON CENTER or doctor/physician, P370+P378 - In case of fire: Use dry chemical, foam, CO2 for extinction. P403+P233 - Store in a well-ventilated place. Keep container tightly closed.

P405 - Store locked up

P501 - Dispose of contents/container to licensed waste handling facility

#### 2.3. Other hazards

No additional information available

#### Unknown acute toxicity (GHS-US) 2.4.

No data available

#### SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

#### Safety Data Sheet

Prepared according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Name	Product identifier	%
Surfactant Blend	(CAS No) Proprietary*	Proprietary*
Trisodium Phosphate Anhydrous	(CAS No) 7601-54-9	Proprietary*
Sodium Metasilicate Pentahydrate	(CAS No) 10213-79-3	Proprietary*

<sup>\*</sup>The component information and exact percentage of composition has been withheld as a trade secret

#### **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

First-aid measures general

Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice

(show the label where possible).

First-aid measures after inhalation : IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. Call a

POISON CENTER or doctor/physician if you feel unwell.

First-aid measures after skin contact : IF ON SKIN: Immediately rinse with plenty of soap and water (for at least 15 minutes). Remove

contaminated clothing and wash before reuse. If skin irritation or redness occurs, get medical

advice/attention.

First-aid measures after eye contact : IF IN EYES: Rinse immediately and thoroughly, pulling the eyelids well away from the eye (15

minutes minimum). Remove contact lenses, if present and easy to do so. Continue rinsing. If eye

irritation occurs, get medical advice/attention.

: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician, Do NOT induce

vomiting. Obtain emergency medical attention.

### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries

May be fatal if swallowed and enters airways.

Symptoms/injuries after inhalation

First-aid measures after ingestion

Inhalation in high concentrations may cause irritation of the mucous membranes. May cause a headache. Aspiration of this material into the lungs may cause chemical pneumonia or death.

Symptoms/injuries after skin contact

Contact may cause irritation. Persons with pre-existing skin disorders may be more susceptible to the effects of this product.

(C)

Symptoms/injuries after eye contact

Direct contact with the eyes is likely to be irritating. May cause burns and possible corneal

damage.

Symptoms/injuries after ingestion

: May be irritating to the mucous membranes.

Chronic symptoms

No data available.

#### 4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

#### **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

Suitable extinguishing media

: Dry chemical, Carbon dioxide, Foam,

#### 5.2. Special hazards arising from the substance or mixture

Explosion hazard

: Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns

and injuries.

Reactivity

: No dangerous reactions known under normal conditions of use.

#### 5.3. Advice for firefighters

Firefighting instructions

: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any

chemical fire. Do not dispose of fire-fighting water in the environment.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

### **SECTION 6: Accidental release measures**

#### 6.1. Personal precautions, protective equipment and emergency procedures

General measures

: Mop up as much as possible, then flush residue with a large volume of water.

#### 6.1.1. For non-emergency personnel

Protective equipment Emergency procedures : Wear Protective equipment as described in Section 8.

: Evacuate unnecessary personnel.

#### 6.1.2. For emergency responders

Protective equipment

 Wear suitable protective clothing, gloves and eye or face protection. Approved supplied-air respirator, in case of emergency.

#### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters. Avoid release to the environment.

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#### Safety Data Sheet

Prepared according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

#### 3.3. Methods and material for containment and cleaning up

For containment

: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or

streams.

Methods for cleaning up

: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Place in

a suitable container for disposal in accordance with the waste regulations (see Section 13).

#### 6.4. Reference to other sections

No additional information available

#### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Precautions for safe handling

Do not handle until all safety precautions have been read and understood. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Do not breathe mists.

#### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions

Keep only in the original container in a cool, well ventilated place away from : Heat sources.

Keep container closed when not in use.

#### 7.3. Specific end use(s)

No additional information available

#### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

Surfactant Blend	
Remark (ACGiH)	OELs not established
Remark (US OSHA)	OELs not established

Trisodium Phosphate Anhydrous (7601-54-9)*	
Remark (ACGIH)	Pertaining to dusts: 10 mg/m3 (inhalable) 8-hr TWA, 3 mg/m3 (respirable) 8-hr TWA
Remark (US OSHA)	Pertaining to dusts: 15 mg/m3 (total dust) 8-hr TWA, 5 mg/m3 (respirable) 8-hr TWA
	*Subject to the reporting requirements of SARA 312. Trisodium Phosphate at 100% in powder form is a nuisance dust.

Sodium Metasilicate Pentahydrate (10213-79-3)	
Remark (ACGIH)	OELs not established
Remark (US OSHA)	OELs not established
	An exposure limit of 2 mg/m3 (15 min TWA) is recommended by analogy with sodium hydroxide.

#### 8.2. Exposure controls

Appropriate engineering controls

: Ensure adequate ventilation. A source of clean water should be available in the work area for flushing eyes and skin.

Personal protective equipment

Gloves, Protective clothing as needed. Protective goggles.



Hand protection

: Use gloves chemically resistant to this material when protonged or repeated contact could occur. Gloves should be classified under Standard EN 374 or ASTM F1296. Suggested glove materials are: Natural rubber ("latex"), Neoprene, Nitrile/butadiene rubber, Polyethylene, Ethyl vinyl alcohol laminate, PVC or vinyl.

≟ye protection

: Eye protection must be worn when possibility exists for eye contact due to spraying liquid or airborne particles.

Skin and body protection

: Wear suitable protective clothing as needed.

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### Safety Data Sheet

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Respiratory protection

: None.

No data availableNo data available

: No data available

#### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

Physical state : Liquid : Clear Appearance : None Color Odor : Slight odor Odor Threshold : No data available рΗ : No data available Relative evaporation rate (butyl acetate=1) : Slower than ether Melting point : No data available Freezing point : No data available Boiling point : >100 °C (212 °F) : None to boiling Flash point Self ignition temperature : No data available Decomposition temperature : No data available Flammability (solid, gas) No data available Vapor pressure : No data available Relative vapor density at 20 °C : No data available Relative density No data available Solubility : No data available Log Pow : No data available : No data available Log Kow Viscosity, kinematic : No data available No data available Viscosity, dynamic

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

Explosive properties

Oxidizing properties Exptosive limits

No dangerous reactions known under normal conditions of use.

#### 10.2. Chemical stability

Stable under recommended handling and storage conditions (see section 7).

#### 10.3. Possibility of hazardous reactions

None known.

#### 10.4. Conditions to avoid

None known.

#### 10.5. Incompatible materials

None known.

### 10.6. Hazardous decomposition products

Thermal decomposition generates: Oxides of carbon and phosphorous.

#### **SECTION 11: Toxicological information**

#### 11.1. Information on toxicological effects

Acute toxicity : Not classified

Surfactant Blend (Alcohol ethoxylate, 9002-92	2-0)
LD50 oral rat	1 g/kg

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#### Safety Data Sheet

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Trisodium Phosphate Anhydrous (7601-54-9)	, , , , , , , , , , , , , , , , , , ,
LD50 oral rat	> 4100 mg/kg
LD50 dermal rabbit	> 7900 mg/kg
Eye Irritation - Rabbit	Corrosive
Skin Irritation - Rabbit	2.2/8.0 (24-hr exp.); slightly irritating

Sodium Metasilicate Pentahydrate (10213-79-	-, I
LD50 oral rat	> 1150 mg/kg
LD50 dermal rAT	> 5000 mg/kg

Skin corrosion/irritation

: Skin Irritant Category 2

Serious eye damage/irritation

Eye Irritant Category 1

Respiratory or skin sensitization

: Not classified

Germ cell mutagenicity

Not classified

Carcinogenicity

Not classified

Reproductive toxicity

: Not classified

Specific target organ toxicity (single exposure)

Not classified

Specific target organ toxicity (repeated

exposure)

: Not classified

Aspiration hazard

May be fatal if swallowed and enters airways.

Symptoms/injuries after inhalation

: Inhalation in high concentrations may cause irritation of the mucous membranes. May cause a headache. Aspiration of this material into the lungs may cause chemical pneumonia or death,

Symptoms/injuries after skin contact

Contact may cause irritation. Persons with pre-existing skin disorders may be more susceptible to the effects of this product.

'ymptoms/injuries after eye contact

: Direct contact with the eyes is likely to be irritating. May cause burns and possible corneal

damage.

Symptoms/injuries after ingestion

May be irritating to the mucous membranes.

Chronic symptoms

: No data available.

#### **SECTION 12: Ecological information**

#### 12.1. Toxicity

No additional information available

#### 12.2. Persistence and degradability

No additional information available

#### 12.3. Bioaccumulative potential

No additional information available

#### 12.4. Mobility in soil

No additional information available

#### 12.5 Other adverse effects

No additional information available

### **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

Waste treatment methods

Do not discharge to public wastewater systems without permit of pollution control authorities. No

discharge to surface waters is allowed without an NPDES permit.

Waste disposal recommendations

Dispose in a safe manner in accordance with local/national regulations. Do not allow the product to be released into the environment.

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#### ECTION 14: Transport information

in accordance with DOT

Transport document description

: Cleaning Compound

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#### Safety Data Sheet

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Department of Transportation (DOT) Hazard Classes

: Not Regulated

#### Transport by sea

No additional information available

#### Air transport

No additional information available

In accordance with ADR / RID / IMDG / IATA / ADN

#### **SECTION 15: Regulatory information**

#### 15.1, US Federal regulations

#### Sentinel 805 Envirotowels

All chemical substances in this product are listed in the EPA (Environmental Protection Agency) TSCA (Toxic Substances Control Act) Inventory SARA Section 311/312 Hazard Classes

Immediate (acute) health hazard

#### Surfactant Blend (Alcohol ethoxylate, 9002-92-0)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

#### Trisodium Phosphate Anhydrous (7601-54-9)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

#### Sodium Metasilicate Pentahydrate (10213-79-3)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

#### 15.2. International regulations

#### CANADA

#### Surfactant Blend (Alcohol ethoxylate, 9092-92-0)

Listed on the Canadian DSL (Domestic Substances List) inventory.

#### Trisodium Phosphate Anhydrous (7601-54-9)

Listed on the Canadian DSL (Domestic Substances List) inventory.

#### Sodium Metasilicate Pentahydrate (10213-79-3)

Listed on the Canadian DSL (Domestic Substances List) inventory.

#### No additional information available

#### 15.2.2. National regulations

#### Surfactant Blend (Alcohol ethoxylate, 9002-92-0)

Listed on Inventory of Existing Chemical Substances (IECSC)

Listed on the AICS (the Australian inventory of Chemical Substances)

Listed on the Korean ECL (Existing Chemical List) inventory.

Listed on the Philippines CCS (Chemicals & Chemical Substances) inventory

#### Trisodium Phosphate Anhydrous (7601-54-9)

Listed on Inventory of Existing Chemical Substances (IECSC)

Listed on the AICS (the Australian Inventory of Chemical Substances)

Listed on the Japanese ENCS (Existing & New Chemicals Substances) inventory.

Listed on the Korean ECL (Existing Chemical List) inventory,

Listed on the Philippines CCS (Chemicals & Chemical Substances) inventory.

#### Sodium Metasilicate Pentahydrate (10213-79-3)

Listed on the AICS (the Australian Inventory of Chemical Substances)

#### 15.3. US State regulations

#### California Proposition 65

This product does not contain any substances known to the state of California to cause cancer and/or reproductive harm

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### Safety Data Sheet

Prepared according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

#### **3ECTION 16: Other information**

Indication of changes

: Revision 1.0 - 07/08/2015 - New SDS Created.

Other information

: Author, KAD

NFPA health hazard

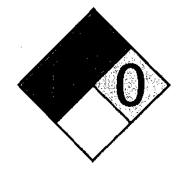
: 1 - Exposure could cause irritation but only minor residual

injury even if no treatment is given.

NFPA fire hazard NFPA reactivity : 0 - Materials that will not burn under typical fire conditions.

: 0 - Normally stable, even under fire exposure conditions,

and are not reactive with water.



#### HMIS III Rating

Health : 1
Flammability : 0
Physical : 0
Personal Protection :

The information in this document is believed to be correct as of the date issued. However, no warranty of merchantability, fitness for any particular purpose, or any other warranty is expressed or is to be implied regarding the accuracy or completeness of this information, the results to be obtained from the use of this product or the hazards related to its use. This information and product are furnished on the condition that the person receiving them shall make his own determination as to the suitability of the product for his particular purpose and on the condition that he assume the risk of his use thereof.

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### Safety Data Sheet

Prepared according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 12/02/2015 Supersedes: All previous versions Version: 1.0

#### SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. **Product identifier** 

Product name Sentinel 805NP Envirotowels (Non-Phosphate)

\*This Safety Data Sheet is provided for the liquid portion of this product

Product form

1.2. Relevant identified uses of the substance or mixture and uses advised against

Uses of the substance/Mixture : Presoaked disposable towels for Lead Dust Cleanup

Details of the supplier of the safety data sheet

Sentinel Products Inc. 8901 Wyoming Avenue North Brooklyn Park, MN 55445 Phone: (763) 571-0630 Toll-free: (800)-373-0633 www.senpro.com

**Emergency telephone number** 

**Emergency number** : 1-866-359-5661

#### **SECTION 2: Hazards identification**

#### Classification of the substance or mixture 2.1.

#### Classification (GHS-US)

Eye Irritation 2 H319

#### 2.2. Label elements

#### **GHS-US** labeling

Hazard pictograms (GHS-US)



Signal word (GHS-US) Warning

Hazard statements (GHS-US) : H319 - Causes serious eye irritation

Precautionary statements (GHS-US) : P264 - Wash hands thoroughly after handling.

P280 - Wear eye protection, protective clothing, protective gloves. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do so. Continue rinsing. P337+P313 - If eye irritation persists: Get medical advice/attention.

P501 - Dispose of contents/container to licensed waste handling facility.

#### 2.3. Other hazards

No additional information available

#### Unknown acute toxicity (GHS-US) 2.4.

No data available

#### **SECTION 3: Composition/information on ingredients**

#### Substance

Not applicable

#### 3.2. Mixture

Name	Product identifier	%
Surfactant	(CAS No) Proprietary*	Proprietary*
Citric Acid	(CAS No) 77-92-9	Proprietary*

<sup>\*</sup>The specific chemical identity and exact percentage of composition has been withheld as a trade secret.

12/02/2015 Sentinel 805NP Envirotowels Page 1

### Safety Data Sheet

Prepared according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

#### **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

First-aid measures general : If exposed or concerned, get medical attention/advice. Show this safety data sheet to the

doctor in attendance. Wash contaminated clothing before re-use. Never give anything to an

unconscious person.

First-aid measures after inhalation : IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. Get

medical attention if breathing is affected. If breathing is difficult, supply oxygen.

First-aid measures after skin contact : IF ON SKIN (or clothing): Remove affected clothing and wash all exposed skin with water for at

least 15 minutes. If irritation develops or persists, get medical attention.

First-aid measures after eye contact : IF IN EYES: Immediately flush with plenty of water for at least 15 minutes. Remove contact

lenses if present and easy to do so. If pain, blinking, or irritation develops or persists, get

medical attention. Continue rinsing.

First-aid measures after ingestion : IF SWALLOWED: rinse mouth thoroughly. Do not induce vomiting without advice from poison

control center or medical professional. Get medical attention if you feel unwell.

#### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries after inhalation : May cause respiratory irritation.

Symptoms/injuries after skin contact : May cause skin irritation. Persons with pre-existing skin disorders may be more susceptible to

the effects of this product.

Symptoms/injuries after eye contact : Direct contact with the eyes is likely to be irritating.

Symptoms/injuries after ingestion : May cause gastrointestinal irritation.

#### 4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

#### **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide.

Unsuitable extinguishing media : Water may be unsuitable as an extinguishing media, but helpful in keeping adjacent containers

cool.

#### 5.2. Special hazards arising from the substance or mixture

Fire hazard : Not determined.

Explosion hazard : Not determined.

Reactivity : No data available.

5.3. Advice for firefighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any

chemical fire. Do not dispose of fire-fighting water in the environment.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

#### **SECTION 6: Accidental release measures**

#### 6.1. Personal precautions, protective equipment and emergency procedures

General measures : Mop up as much as possible, then flush residue with a large volume of water.

6.1.1. For non-emergency personnel

Protective equipment : Wear Protective equipment as described in Section 8.

Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Wear suitable protective clothing, gloves and eye or face protection. Approved supplied-air

respirator, in case of emergency.

#### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters. Avoid release to the environment.

#### 6.3. Methods and material for containment and cleaning up

For containment : Contain any spills with dikes or absorbents to prevent migration and entry into sewers or

streams

Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Place in

a suitable container for disposal in accordance with the waste regulations (see Section 13).

12/02/2015 Sentinel 805NP Envirotowels 2/6

### Safety Data Sheet

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#### 6.4. Reference to other sections

No additional information available

#### **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or

smoking and when leaving work. Keep container closed when not in use.

#### 7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Does not require any specific or particular technical measures.

Storage conditions : Store in dry, well-ventilated area. Keep container tightly closed in a cool place. Do not allow to

freeze as container may burst.

#### 7.3. Specific end use(s)

No additional information available

### **SECTION 8: Exposure controls/personal protection**

#### 8.1. Control parameters

Surfactant (Proprietary)	
Remark (ACGIH)	OELs not established
Remark (US OSHA)	OELs not established

Citric Acid (77-92-9)	
Remark (ACGIH)	OELs not established
Remark (US OSHA)	OELs not established

#### 8.2. Exposure controls

Appropriate engineering controls : Provide adequate general and local exhaust ventilation. Use process enclosures, local exhaust

ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Use explosion-proof equipment with flammable materials. Ensure adequate

ventilation, especially in confined areas.

Personal protective equipment : Gloves. Protective goggles.





Hand protection : Use gloves chemically resistant to this material when prolonged or repeated contact could

occur. Gloves should be classified under Standard EN 374 or ASTM F1296. Suggested glove materials are: Neoprene, Nitrile/butadiene rubber, Polyethylene, Ethyl vinyl alcohol laminate, PVC or vinyl. . Suitable gloves for this specific application can be recommended by the glove

supplier

Eye protection : Use eye protection suitable to the environment. Avoid direct contact with eyes.

Skin and body protection : Wear protective clothing as desired.

Respiratory protection : Use NIOSH-approved dust/particulate respirator. Where vapor, mist, or dust exceed PELs or

other applicable OELs, use NIOSH-approved respiratory protective equipment.

### **SECTION 9: Physical and chemical properties**

#### 9.1. Information on basic physical and chemical properties

Physical state : Liquid
Color : None
Odor : Slight

Odor Threshold : No data available
pH : No data available
Relative evaporation rate (butylacetate=1) : No data available
Relative evaporation rate (ether=1) : < 1, Slower than ether
Melting point : No data available
Freezing point : 0 °C (32 °F)

12/02/2015 Sentinel 805NP Envirotowels 3/6

### Safety Data Sheet

Prepared according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Boiling point : 100 °C (212 °F) Flash point : None to boiling Auto-ignition temperature : No data available Decomposition temperature : No data available Flammability (solid, gas) : No data available Vapour pressure : No data available Relative vapour density at 20 °C : No data available Relative density : No data available

Solubility : Complete solubility in water.

Log Pow : No data available
Log Kow : No data available
Viscosity, kinematic : No data available
Viscosity, dynamic : No data available
Explosive properties : No data available
Oxidising properties : No data available
Explosive limits : No data available

#### 9.2. Other information

No additional information available

#### **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

No data available.

#### 10.2. Chemical stability

Stable under recommended handling and storage conditions (see section 7).

#### 10.3. Possibility of hazardous reactions

None known

#### 10.4. Conditions to avoid

Freezing conditions.

#### 10.5. Incompatible materials

None known.

#### 10.6. Hazardous decomposition products

Carbon dioxide and some oxides of nitrogen.

#### **SECTION 11: Toxicological information**

#### 11.1. Information on toxicological effects

Acute toxicity : Not classified

Surfactant (Proprietary)	
LD50 oral rat	= 1 g/kg
Citric Acid (77-92-9)	
LD50 oral	> 5400 mg/kg
LD50 dermal	> 11700 mg/kg

Skin corrosion/irritation : Not classified

Serious eye damage/irritation : Likely to cause eye damage

Respiratory or skin sensitisation : Not classified Germ cell mutagenicity : Not classified Carcinogenicity : Not classified

Reproductive toxicity : Not classified Specific target organ toxicity (single exposure) : Not classified

12/02/2015 Sentinel 805NP Envirotowels 4/6

### Safety Data Sheet

Prepared according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Specific target organ toxicity (repeated

exposure)

: Not classified

Aspiration hazard : Not classified

Symptoms/injuries after inhalation : May cause respiratory irritation.

Symptoms/injuries after skin contact : May cause skin irritation. Persons with pre-existing skin disorders may be more susceptible to

the effects of this product.

Symptoms/injuries after eye contact : Direct contact with the eyes is likely to be irritating.

Symptoms/injuries after ingestion : May cause gastrointestinal irritation.

#### **SECTION 12: Ecological information**

#### 12.1. Toxicity

Ecology - general

Aquatic toxicity rating not determined. All possible measures should be taken to prevent

release into the environment.

#### 12.2. Persistence and degradability

#### Sentinel 805NP Envirowash

Persistence and degradability

Not established

#### 12.3. Bioaccumulative potential

No additional information available

#### 12.4. Mobility in soil

No additional information available

#### 12.5. Other adverse effects

No additional information available

#### **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

Waste treatment methods

: Do not discharge to public wastewater systems without permit of pollution control authorities.

No discharge to surface waters is allowed without an NPDES permit.

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.

#### **SECTION 14: Transport information**

In accordance with DOT Not hazardous for transport Additional information

Other information : No supplementary information available.

#### Transport by sea

No additional information available

### Air transport

No additional information available

#### **SECTION 15: Regulatory information**

#### 15.1. US Federal regulations

#### Sentinel 805NP Envirowash

All chemical substances in this product are listed in the EPA (Environment Protection Agency) TSCA (Toxic Substances Control Act) Inventory SARA Section 311/312 Hazard Classes

Immediate (acute) health hazard

#### 15.2. International regulations

#### CANADA

#### Surfactant (Proprietary)

Listed on the Canadian DSL (Domestic Substances List) inventory.

12/02/2015 Sentinel 805NP Envirotowels 5/6

### Safety Data Sheet

Prepared according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

#### 15.2.2. National regulations

#### Surfactant (Proprietary)

Listed on Inventory of Existing Chemical Substances (IECSC)

Listed on European Inventory of Existing Chemical Substances (EINECS)

Listed on the AICS (the Australian Inventory of Chemical Substances)

Listed on the Korean ECL (Existing Chemical List) inventory.

Listed on the Philippines CCS (Chemicals & Chemical Substances) inventory.

#### 15.3. US State regulations

This product does not contain any substances known to the state of California to cause cancer and/or reproductive harm

#### Triethanolamine (102-71-6)

U.S. - Massachusetts - Right To Know List

U.S. - New Jersey - Right to Know Hazardous Substance List

U.S. - Pennsylvania - RTK (Right to Know) List

#### **SECTION 16: Other information**

Indication of changes : Revision 1.0: - 02 December 2015 - New SDS Created.

:

Other information : Author: KAD

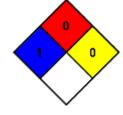
NFPA health hazard : 1 - Exposure could cause irritation but only minor residual

injury even if no treatment is given.

NFPA fire hazard : 0 - Materials that will not burn.

NFPA reactivity : 0 - Normally stable, even under fire exposure conditions,

and are not reactive with water.



#### **HMIS III Rating**

Health: 1Flammability: 0Physical: 0Personal Protection:

The information in this document is believed to be correct as of the date issued. However, no warranty of merchantability, fitness for any particular purpose, or any other warranty is expressed or is to be implied regarding the accuracy or completeness of this information, the results to be obtained from the use of this product or the hazards related to its use. This information and product are furnished on the condition that the person receiving them shall make his own determination as to the suitability of the product for his particular purpose and on the condition that he assume the risk of his use thereof.

12/02/2015 Sentinel 805NP Envirotowels 6/6



# Sentinel 626 Carpet Adhesive Remover

(VOC Compliant) Safety Data Sheet
Prepared according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Revision date: 02/27/2018 Supersedes: All previous versions Version: 1.3

#### SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name : Sentinel 626 Carpet Adhesive Remover

Product form : Mixture

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Flooring adhesive removal

1.3. Details of the supplier of the safety data sheet

Sentinel Products Inc. 8901 Wyoming Avenue North Brooklyn Park, MN 55445 Phone: (763) 571-0630 Toll-free: (800)-373-0633

www.senpro.com

1.4. Emergency telephone number

Emergency number : 1-866-359-5661

#### **SECTION 2: Hazards identification**

#### 2.1. Classification of the substance or mixture

Classification (GHS-US)

Skin Irritation Category 2 H315 Eye Irritation Category 1 H318

#### 2.2. Label elements

**GHS-US** labeling

Hazard pictograms (GHS-US)



GHS05

Signal word (GHS-US) : Danger

Hazard statements (GHS-US) : H315 - Causes skin irritation

H318 - Causes serious eye damage

Precautionary statements (GHS-US) P264 - Wash hands thoroughly after handling.

P280 - Wear eye protection, protective clothing, protective gloves P302+P352 - IF ON SKIN: Wash with plenty of soap and water. P332+P313 - If skin irritation occurs: Get medical advice/attention. P362 - Take off contaminated clothing and wash before reuse.

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do so. Continue rinsing.
P310 - Immediately call a POISON CENTER or doctor/physician.
P370+P378 - In case of fire: Use dry chemical, foam, CO2 for extinction.
P403+P233 - Store in a well-ventilated place. Keep container tightly closed.

P405 - Store locked up

P501 - Dispose of contents/container to licensed waste handling facility

#### 2.3. Other hazards

No additional information available

#### 2.4. Unknown acute toxicity (GHS-US)

No data available

#### **SECTION 3: Composition/information on ingredients**

#### 3.1. Substance

Not applicable

#### 3.2. Mixture

# (VOC Compliant) Safety Data Sheet

Prepared according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Name	Product identifier	%
Water	(CAS No) 7732-18-5	Proprietary*
2-aminoethanol	(CAS No) 141-43-5	Proprietary*
2-(2-butoxyethoxy)ethanol	(CAS No) 112-34-5	Proprietary*
Surfactant	(CAS No) Proprietary*	Proprietary*

<sup>\*</sup>The exact percentage of composition has been withheld as a trade secret

#### **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice

(show the label where possible).

First-aid measures after inhalation : IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. Call a

POISON CENTER or doctor/physician if you feel unwell.

First-aid measures after skin contact : IF ON SKIN: Immediately rinse with plenty of soap and water (for at least 15 minutes). Remove

contaminated clothing and wash before reuse. If skin irritation occurs, get medical

advice/attention.

First-aid measures after eye contact : IF IN EYES: Rinse immediately and thoroughly, pulling the eyelids well away from the eye (15

minutes minimum). Remove contact lenses, if present and easy to do so. Continue rinsing. If eye

irritation occurs, get medical advice/attention.

First-aid measures after ingestion : IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Do NOT induce

vomiting. Obtain emergency medical attention.

#### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries : May be fatal if swallowed and enters airways.

Symptoms/injuries after inhalation : Inhalation in high concentrations may cause irritation of the mucous membranes. Aspiration of

this material into the lungs may cause chemical pneumonia or death.

Symptoms/injuries after skin contact : Contact may cause irritation.

Symptoms/injuries after eye contact : Direct contact with the eyes is likely to be irritating. May cause burns and possible corneal

damage.

Symptoms/injuries after ingestion : May be irritating to the mucous membranes.

Chronic symptoms : No data available.

### 4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

### **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

Suitable extinguishing media : Dry chemical. Carbon dioxide. Foam.

### 5.2. Special hazards arising from the substance or mixture

Explosion hazard : Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns

and injuries.

Reactivity : No dangerous reactions known under normal conditions of use.

5.3. Advice for firefighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any

chemical fire. Do not dispose of fire-fighting water in the environment.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

# **SECTION 6: Accidental release measures**

### 6.1. Personal precautions, protective equipment and emergency procedures

General measures : Evacuate area. Keep upwind. Ventilate area. Spill should be handled by trained clean-up crews properly equipped with respiratory equipment and full chemical protective gear (see Section 8).

6.1.1. For non-emergency personnel

Protective equipment : Wear Protective equipment as described in Section 8.

Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Wear suitable protective clothing, gloves and eye or face protection. Approved supplied-air

respirator, in case of emergency.

# (VOC Compliant) Safety Data Sheet

Prepared according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

#### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters. Avoid release to the environment.

#### 6.3. Methods and material for containment and cleaning up

For containment

: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or

streams. Foam may be used to suppress vapors.

Methods for cleaning up

: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Place in a suitable container for disposal in accordance with the waste regulations (see Section 13).

#### 6.4. Reference to other sections

No additional information available

# **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

Precautions for safe handling

: Do not handle until all safety precautions have been read and understood. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. Do not breathe mists.

### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions

: Keep only in the original container in a cool, well ventilated place away from : Heat sources.

Keep container closed when not in use.

#### 7.3. Specific end use(s)

No additional information available

# SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

2-aminoethanol (141-43-5)	
Remark (ACGIH)	TWA - 3 PPM, STEL - 6 PPM
Remark (US OSHA)	TWA - 3 PPM

2-(2-butoxyethoxy)ethanol (112-34-5)	
Remark (ACGIH)	TWA - 10 ppm
Remark (US OSHA)	OELs not established

Surfactant (Proprietary*)	
Remark (ACGIH)	OELs not established
Remark (US OSHA)	OELs not established

### 8.2. Exposure controls

Appropriate engineering controls

: Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

: Gloves. Protective clothing. Protective goggles. Respiratory protection of the dependent type may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits.



Hand protection

: Use gloves chemically resistant to this material when prolonged or repeated contact could occur. Gloves should be classified under Standard EN 374 or ASTM F1296. Suggested glove materials are: Natural rubber ("latex"), Neoprene, Nitrile/butadiene rubber, Polyethylene, Ethyl vinyl alcohol laminate. PVC or vinyl.

Eye protection

Eye protection, including both chemical splash goggles and face shield, must be worn when possibility exists for eye contact due to spraying liquid or airborne particles.

Skin and body protection

: Wear suitable protective clothing.

Respiratory protection

: An approved organic vapor respirator/supplied air or self-contained breathing apparatus must be used when vapor concentration exceeds applicable exposure limits.

# (VOC Compliant) Safety Data Sheet

Prepared according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

# **SECTION 9: Physical and chemical properties**

#### 9.1. Information on basic physical and chemical properties

Physical state : Liquid Appearance · Clear Color : None Odor No odor

Odor Threshold No data available

nН 10.5-11.5

Relative evaporation rate (butyl acetate=1) : Slower than ether Melting point : No data available Freezing point : No data available Boiling point : >100 °C (212 °F) Flash point : None to boiling Self ignition temperature : No data available Decomposition temperature : No data available Flammability (solid, gas) : No data available Vapor pressure No data available Relative vapor density at 20 °C : No data available Relative density : No data available Solubility : No data available Log Pow : No data available Log Kow No data available Viscosity, kinematic No data available : No data available Viscosity, dynamic Explosive properties No data available

9.2. Other information

Oxidizing properties **Explosive limits** 

VOC content : This floor or wall covering adhesive remover contains less than 5% V.O.C. content by weight.

: No data available

No data available

\*When determining VOC content in accordance with the requirements set forth by the Ozone

Transport Commission (OTC), effective 01-01-2009

### **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

No dangerous reactions known under normal conditions of use.

#### 10.2. Chemical stability

Stable under recommended handling and storage conditions (see section 7).

#### 10.3. Possibility of hazardous reactions

None known

#### 10.4. Conditions to avoid

Sparks. Heat. Open flame.

#### 10.5. Incompatible materials

Avoid contact with: Acids or bleach.

#### 10.6. **Hazardous decomposition products**

Thermal decomposition generates: Oxides of carbon and nitrogen.

# **SECTION 11: Toxicological information**

#### 11.1. Information on toxicological effects

Acute toxicity : Not classified

# (VOC Compliant) Safety Data Sheet

Prepared according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

2-aminoethanol (141-43-5)	
LD50 oral rat	> 1500mg/kg
LD50 dermal rabbit	> 1000 mg/kg

2-(2-butoxyethoxy)ethanol (112-34-5)	
LD50 oral rat	> 4500 mg/kg
LD50 dermal rabbit	> 2500 mg/kg

Surfactant (Proprietary*)	
LD50 oral rat	> 1300 mg/kg
LD50 dermal rabbit	> 2 g/kg

Skin corrosion/irritation : Skin Irritant Category 2
Serious eye damage/irritation : Eye Irritant Category 1

Respiratory or skin sensitization : Not classified Germ cell mutagenicity : Not classified Carcinogenicity : Not classified

Reproductive toxicity : Not classified Specific target organ toxicity (single exposure) : Not classified

Specific target organ toxicity (repeated

exposure)

: Not classified

Aspiration hazard : May be fatal if swallowed and enters airways.

Symptoms/injuries after inhalation : Inhalation in high concentrations may cause irritation of the mucous membranes. Aspiration of

this material into the lungs may cause chemical pneumonia or death.

Symptoms/injuries after skin contact : Contact may cause irritation.

Symptoms/injuries after eye contact : Direct contact with the eyes is likely to be irritating. May cause burns and possible corneal

damage.

Symptoms/injuries after ingestion : May be irritating to the mucous membranes.

Chronic symptoms : No data available.

### **SECTION 12: Ecological information**

# 12.1. Toxicity

No additional information available

#### 12.2. Persistence and degradability

No additional information available

#### 12.3. Bioaccumulative potential

No additional information available

# 12.4. Mobility in soil

No additional information available

# 12.5. Other adverse effects

No additional information available

#### **SECTION 13: Disposal considerations**

### 13.1. Waste treatment methods

Waste treatment methods : Do not discharge to public wastewater systems without permit of pollution control authorities. No

discharge to surface waters is allowed without an NPDES permit.

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. Do not allow the product

to be released into the environment.

# (VOC Compliant) Safety Data Sheet

Prepared according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### **SECTION 14: Transport information**

In accordance with DOT

Transport document description : Cleaning Compound
Department of Transportation (DOT) Hazard : Not Regulated

Classes

#### Transport by sea

No additional information available

#### Air transport

No additional information available

In accordance with ADR / RID / IMDG / IATA / ADN

# **SECTION 15: Regulatory information**

#### 15.1. US Federal regulations

#### Sentinel 626 Carpet Adhesive Remover (VOC Compliant)

All chemical substances in this product are listed in the EPA (Environmental Protection Agency) TSCA (Toxic Substances Control Act) Inventory SARA Section 311/312 Hazard Classes

Immediate (acute) health hazard

### 2-aminoethanol (141-43-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

### 2-(2-butoxyethoxy)ethanol (112-34-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

### Surfactant (Proprietary\*)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

### 15.2. International regulations

#### CANADA

# 2-(2-butoxyethoxy)ethanol (112-34-5)

Listed on the Canadian DSL (Domestic Substances List) inventory.

# Surfactant (Proprietary\*)

Listed on the Canadian DSL (Domestic Substances List) inventory.

No additional information available

### 15.2.2. National regulations

### 2-(2-butoxyethoxy)ethanol (112-34-5)

Listed on Inventory of Existing Chemical Substances (IECSC)

Listed on the AICS (the Australian Inventory of Chemical Substances)

Listed on the Japanese ENCS (Existing & New Chemicals Substances) inventory.

Listed on the Korean ECL (Existing Chemical List) inventory.

Listed on the Philippines CCS (Chemicals & Chemical Substances) inventory

# Surfactant (Proprietary\*)

Listed on Inventory of Existing Chemical Substances (IECSC)

Listed on the AICS (the Australian Inventory of Chemical Substances)

Listed on the Japanese ENCS (Existing & New Chemicals Substances) inventory.

Listed on the Korean ECL (Existing Chemical List) inventory.

Listed on the Philippines CCS (Chemicals & Chemical Substances) inventory.

#### 15.3. US State regulations

# California Proposition 65

This product does not contain any substances known to the state of California to cause cancer and/or reproductive harm

# (VOC Compliant) Safety Data Sheet

Prepared according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

# **SECTION 16: Other information**

Indication of changes : Revision 1.3 - 27 February 2018 - Section 2 Updated

Other information : Author. KAD

NFPA health hazard : 1 - Exposure could cause irritation but only minor residual

injury even if no treatment is given.

NFPA fire hazard : 0 - Materials that will not burn under typical fire conditions.

NFPA reactivity : 0 - Normally stable, even under fire exposure conditions,

and are not reactive with water.



### **HMIS III Rating**

Health : 1
Flammability : 0
Physical : 0
Personal Protection :

The information in this document is believed to be correct as of the date issued. However, no warranty of merchantability, fitness for any particular purpose, or any other warranty is expressed or is to be implied regarding the accuracy or completeness of this information, the results to be obtained from the use of this product or the hazards related to its use. This information and product are furnished on the condition that the person receiving them shall make his own determination as to the suitability of the product for his particular purpose and on the condition that he assume the risk of his use thereof.



(VOC Compliant) Safety Data Sheet
Prepared according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Revision date: 02/27/2018 Supersedes: All previous versions Version: 1.3

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name : Sentinel 626 Carpet Adhesive Remover

Product form : Mixture

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Flooring adhesive removal

1.3. Details of the supplier of the safety data sheet

Sentinel Products Inc. 8901 Wyoming Avenue North Brooklyn Park, MN 55445 Phone: (763) 571-0630 Toll-free: (800)-373-0633

www.senpro.com

1.4. Emergency telephone number

Emergency number : 1-866-359-5661

### **SECTION 2: Hazards identification**

### 2.1. Classification of the substance or mixture

Classification (GHS-US)

Skin Irritation Category 2 H315 Eye Irritation Category 1 H318

#### 2.2. Label elements

**GHS-US** labeling

Hazard pictograms (GHS-US)



GHS05

Signal word (GHS-US) : Danger

Hazard statements (GHS-US) : H315 - Causes skin irritation

H318 - Causes serious eye damage

Precautionary statements (GHS-US) P264 - Wash hands thoroughly after handling.

P280 - Wear eye protection, protective clothing, protective gloves P302+P352 - IF ON SKIN: Wash with plenty of soap and water. P332+P313 - If skin irritation occurs: Get medical advice/attention. P362 - Take off contaminated clothing and wash before reuse.

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do so. Continue rinsing.
P310 - Immediately call a POISON CENTER or doctor/physician.
P370+P378 - In case of fire: Use dry chemical, foam, CO2 for extinction.
P403+P233 - Store in a well-ventilated place. Keep container tightly closed.

P405 - Store locked up

P501 - Dispose of contents/container to licensed waste handling facility

### 2.3. Other hazards

No additional information available

### 2.4. Unknown acute toxicity (GHS-US)

No data available

# **SECTION 3: Composition/information on ingredients**

### 3.1. Substance

Not applicable

### 3.2. Mixture

# (VOC Compliant) Safety Data Sheet

Prepared according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Name	Product identifier	%
Water	(CAS No) 7732-18-5	Proprietary*
2-aminoethanol	(CAS No) 141-43-5	Proprietary*
2-(2-butoxyethoxy)ethanol	(CAS No) 112-34-5	Proprietary*
Surfactant	(CAS No) Proprietary*	Proprietary*

<sup>\*</sup>The exact percentage of composition has been withheld as a trade secret

#### **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice

(show the label where possible).

First-aid measures after inhalation : IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. Call a

POISON CENTER or doctor/physician if you feel unwell.

First-aid measures after skin contact : IF ON SKIN: Immediately rinse with plenty of soap and water (for at least 15 minutes). Remove

contaminated clothing and wash before reuse. If skin irritation occurs, get medical

advice/attention.

First-aid measures after eye contact : IF IN EYES: Rinse immediately and thoroughly, pulling the eyelids well away from the eye (15

minutes minimum). Remove contact lenses, if present and easy to do so. Continue rinsing. If eye

irritation occurs, get medical advice/attention.

First-aid measures after ingestion : IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Do NOT induce

vomiting. Obtain emergency medical attention.

#### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries : May be fatal if swallowed and enters airways.

Symptoms/injuries after inhalation : Inhalation in high concentrations may cause irritation of the mucous membranes. Aspiration of

this material into the lungs may cause chemical pneumonia or death.

Symptoms/injuries after skin contact : Contact may cause irritation.

Symptoms/injuries after eye contact : Direct contact with the eyes is likely to be irritating. May cause burns and possible corneal

damage.

Symptoms/injuries after ingestion : May be irritating to the mucous membranes.

Chronic symptoms : No data available.

### 4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

### **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

Suitable extinguishing media : Dry chemical. Carbon dioxide. Foam.

### 5.2. Special hazards arising from the substance or mixture

Explosion hazard : Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns

and injuries.

Reactivity : No dangerous reactions known under normal conditions of use.

5.3. Advice for firefighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any

chemical fire. Do not dispose of fire-fighting water in the environment.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

# **SECTION 6: Accidental release measures**

### 6.1. Personal precautions, protective equipment and emergency procedures

General measures : Evacuate area. Keep upwind. Ventilate area. Spill should be handled by trained clean-up crews properly equipped with respiratory equipment and full chemical protective gear (see Section 8).

6.1.1. For non-emergency personnel

Protective equipment : Wear Protective equipment as described in Section 8.

Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Wear suitable protective clothing, gloves and eye or face protection. Approved supplied-air

respirator, in case of emergency.

# (VOC Compliant) Safety Data Sheet

Prepared according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

#### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters. Avoid release to the environment.

#### 6.3. Methods and material for containment and cleaning up

For containment

: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or

streams. Foam may be used to suppress vapors.

Methods for cleaning up

: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Place in a suitable container for disposal in accordance with the waste regulations (see Section 13).

#### 6.4. Reference to other sections

No additional information available

# **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

Precautions for safe handling

: Do not handle until all safety precautions have been read and understood. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. Do not breathe mists.

### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions

: Keep only in the original container in a cool, well ventilated place away from : Heat sources.

Keep container closed when not in use.

#### 7.3. Specific end use(s)

No additional information available

# SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

2-aminoethanol (141-43-5)	
Remark (ACGIH)	TWA - 3 PPM, STEL - 6 PPM
Remark (US OSHA)	TWA - 3 PPM

2-(2-butoxyethoxy)ethanol (112-34-5)	
Remark (ACGIH)	TWA - 10 ppm
Remark (US OSHA)	OELs not established

Surfactant (Proprietary*)	
Remark (ACGIH)	OELs not established
Remark (US OSHA)	OELs not established

### 8.2. Exposure controls

Appropriate engineering controls

: Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

: Gloves. Protective clothing. Protective goggles. Respiratory protection of the dependent type may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits.



Hand protection

: Use gloves chemically resistant to this material when prolonged or repeated contact could occur. Gloves should be classified under Standard EN 374 or ASTM F1296. Suggested glove materials are: Natural rubber ("latex"), Neoprene, Nitrile/butadiene rubber, Polyethylene, Ethyl vinyl alcohol laminate. PVC or vinyl.

Eye protection

Eye protection, including both chemical splash goggles and face shield, must be worn when possibility exists for eye contact due to spraying liquid or airborne particles.

Skin and body protection

: Wear suitable protective clothing.

Respiratory protection

: An approved organic vapor respirator/supplied air or self-contained breathing apparatus must be used when vapor concentration exceeds applicable exposure limits.

# (VOC Compliant) Safety Data Sheet

Prepared according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

# **SECTION 9: Physical and chemical properties**

#### 9.1. Information on basic physical and chemical properties

Physical state : Liquid Appearance · Clear Color : None Odor No odor

Odor Threshold No data available

nН 10.5-11.5

Relative evaporation rate (butyl acetate=1) : Slower than ether Melting point : No data available Freezing point : No data available Boiling point : >100 °C (212 °F) Flash point : None to boiling Self ignition temperature : No data available Decomposition temperature : No data available Flammability (solid, gas) : No data available Vapor pressure No data available Relative vapor density at 20 °C : No data available Relative density : No data available Solubility : No data available Log Pow : No data available Log Kow No data available Viscosity, kinematic No data available : No data available Viscosity, dynamic Explosive properties No data available

9.2. Other information

Oxidizing properties **Explosive limits** 

VOC content : This floor or wall covering adhesive remover contains less than 5% V.O.C. content by weight.

: No data available

No data available

\*When determining VOC content in accordance with the requirements set forth by the Ozone

Transport Commission (OTC), effective 01-01-2009

### **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

No dangerous reactions known under normal conditions of use.

#### 10.2. Chemical stability

Stable under recommended handling and storage conditions (see section 7).

#### 10.3. Possibility of hazardous reactions

None known

#### 10.4. Conditions to avoid

Sparks. Heat. Open flame.

#### 10.5. Incompatible materials

Avoid contact with: Acids or bleach.

#### 10.6. **Hazardous decomposition products**

Thermal decomposition generates: Oxides of carbon and nitrogen.

# **SECTION 11: Toxicological information**

#### 11.1. Information on toxicological effects

Acute toxicity : Not classified

# (VOC Compliant) Safety Data Sheet

Prepared according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

2-aminoethanol (141-43-5)	
LD50 oral rat	> 1500mg/kg
LD50 dermal rabbit	> 1000 mg/kg

2-(2-butoxyethoxy)ethanol (112-34-5)	
LD50 oral rat	> 4500 mg/kg
LD50 dermal rabbit	> 2500 mg/kg

Surfactant (Proprietary*)	
LD50 oral rat	> 1300 mg/kg
LD50 dermal rabbit	> 2 g/kg

Skin corrosion/irritation : Skin Irritant Category 2
Serious eye damage/irritation : Eye Irritant Category 1

Respiratory or skin sensitization : Not classified Germ cell mutagenicity : Not classified Carcinogenicity : Not classified

Reproductive toxicity : Not classified Specific target organ toxicity (single exposure) : Not classified

Specific target organ toxicity (repeated

exposure)

: Not classified

Aspiration hazard : May be fatal if swallowed and enters airways.

Symptoms/injuries after inhalation : Inhalation in high concentrations may cause irritation of the mucous membranes. Aspiration of

this material into the lungs may cause chemical pneumonia or death.

Symptoms/injuries after skin contact : Contact may cause irritation.

Symptoms/injuries after eye contact : Direct contact with the eyes is likely to be irritating. May cause burns and possible corneal

damage.

Symptoms/injuries after ingestion : May be irritating to the mucous membranes.

Chronic symptoms : No data available.

### **SECTION 12: Ecological information**

# 12.1. Toxicity

No additional information available

#### 12.2. Persistence and degradability

No additional information available

#### 12.3. Bioaccumulative potential

No additional information available

# 12.4. Mobility in soil

No additional information available

# 12.5. Other adverse effects

No additional information available

#### **SECTION 13: Disposal considerations**

### 13.1. Waste treatment methods

Waste treatment methods : Do not discharge to public wastewater systems without permit of pollution control authorities. No

discharge to surface waters is allowed without an NPDES permit.

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. Do not allow the product

to be released into the environment.

# (VOC Compliant) Safety Data Sheet

Prepared according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### **SECTION 14: Transport information**

In accordance with DOT

Transport document description : Cleaning Compound
Department of Transportation (DOT) Hazard : Not Regulated

Classes

#### Transport by sea

No additional information available

#### Air transport

No additional information available

In accordance with ADR / RID / IMDG / IATA / ADN

# **SECTION 15: Regulatory information**

#### 15.1. US Federal regulations

#### Sentinel 626 Carpet Adhesive Remover (VOC Compliant)

All chemical substances in this product are listed in the EPA (Environmental Protection Agency) TSCA (Toxic Substances Control Act) Inventory SARA Section 311/312 Hazard Classes

Immediate (acute) health hazard

### 2-aminoethanol (141-43-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

### 2-(2-butoxyethoxy)ethanol (112-34-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

### Surfactant (Proprietary\*)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

### 15.2. International regulations

#### CANADA

# 2-(2-butoxyethoxy)ethanol (112-34-5)

Listed on the Canadian DSL (Domestic Substances List) inventory.

# Surfactant (Proprietary\*)

Listed on the Canadian DSL (Domestic Substances List) inventory.

No additional information available

### 15.2.2. National regulations

### 2-(2-butoxyethoxy)ethanol (112-34-5)

Listed on Inventory of Existing Chemical Substances (IECSC)

Listed on the AICS (the Australian Inventory of Chemical Substances)

Listed on the Japanese ENCS (Existing & New Chemicals Substances) inventory.

Listed on the Korean ECL (Existing Chemical List) inventory.

Listed on the Philippines CCS (Chemicals & Chemical Substances) inventory

# Surfactant (Proprietary\*)

Listed on Inventory of Existing Chemical Substances (IECSC)

Listed on the AICS (the Australian Inventory of Chemical Substances)

Listed on the Japanese ENCS (Existing & New Chemicals Substances) inventory.

Listed on the Korean ECL (Existing Chemical List) inventory.

Listed on the Philippines CCS (Chemicals & Chemical Substances) inventory.

#### 15.3. US State regulations

# California Proposition 65

This product does not contain any substances known to the state of California to cause cancer and/or reproductive harm

# (VOC Compliant) Safety Data Sheet

Prepared according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

# **SECTION 16: Other information**

Indication of changes : Revision 1.3 - 27 February 2018 - Section 2 Updated

Other information : Author. KAD

NFPA health hazard : 1 - Exposure could cause irritation but only minor residual

injury even if no treatment is given.

NFPA fire hazard : 0 - Materials that will not burn under typical fire conditions.

: 0 - Normally stable, even under fire exposure conditions,

and are not reactive with water.



### **HMIS III Rating**

NFPA reactivity

Health : 1
Flammability : 0
Physical : 0
Personal Protection :

The information in this document is believed to be correct as of the date issued. However, no warranty of merchantability, fitness for any particular purpose, or any other warranty is expressed or is to be implied regarding the accuracy or completeness of this information, the results to be obtained from the use of this product or the hazards related to its use. This information and product are furnished on the condition that the person receiving them shall make his own determination as to the suitability of the product for his particular purpose and on the condition that he assume the risk of his use thereof.



Product name : Basic-G

Use of the substance/mixture : Cleaning

**Shaklee Corporation** Pleasanton, CA 94588 T 925-924-2000

**Emergency number** : 925-931-4189

Flam. Liq. 4 H227 Acute Tox. 4 (Oral) H302 Acute Tox. 4 (Dermal) H312 Skin Corr. 1C H314 Eye Dam. 1 H318 Repr. 2 H361

Full text of hazard classes and H-statements : see section 16

Hazard pictograms (GHS US)



GHS05





GHS08

: Danger

Signal word (GHS US) Hazard statements (GHS US)

: H227 - Combustible liquid

H302+H312 - Harmful if swallowed or in contact with skin H314 - Causes severe skin burns and eye damage

H318 - Causes serious eye damage

H361 - Suspected of damaging fertility or the unborn child

Precautionary statements (GHS US)

: P201 - Obtain special instructions before use.

P202 - Do not handle until all safety precautions have been read and understood.

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P260 - Do not breathe dust/fume/gas/mist/vapors/spray.

P264 - Wash hands, forearms and face thoroughly after handling.

P270 - Do not eat, drink or smoke when using this product.

P280 - Wear protective gloves/protective clothing/eye protection/face protection. P301+P312 - If swallowed: Call a poison center or doctor if you feel unwell

P301+P330+P331 - If swallowed: rinse mouth. Do NOT induce vomiting

P302+P352 - If on skin: Wash with plenty of water

P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse

skin with water/shower

P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing

P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing

P308+P313 - If exposed or concerned: Get medical advice/attention.

P310 - Immediately call a poison center or doctor P312 - Call a poison center or doctor if you feel unwell

P321 - Specific treatment (see supplemental first aid instruction on this label)

P322 - Specific treatment (see supplemental first aid instruction on this label)

P330 - Rinse mouth.

11/08/2019 EN (English US) Page 1 P362+P364 - Take off contaminated clothing and wash it before reuse.

P363 - Wash contaminated clothing before reuse.

P370+P378 - In case of fire: Use media other than water to extinguish.

P403+P235 - Store in a well-ventilated place. Keep cool.

P405 - Store locked up.

 $\mathsf{P501}$  - Dispose of contents/container to hazardous or special waste collection point, in

accordance with local, regional, national and/or international regulation

#### No additional information available

#### Not applicable

#### Not applicable

Didecyldimethylammonium chloride	(CAS-No.) 7173-51-5	10 - 15	Acute Tox. 3 (Oral), H301
Quaternary ammonium compounds, benzyl-C12-16- alkyldimethyl, chlorides	(CAS-No.) 68424-85-1	5 - 10	Acute Tox. 4 (Oral), H302
Ethyl alcohol	(CAS-No.) 64-17-5	3 - 5	Flam. Liq. 2, H225 Carc. 1A, H350
Edetic acid	(CAS-No.) 60-00-4	3 - 5	Acute Tox. 4 (Oral), H302 Eye Irrit. 2A, H319
1-Octanamine, N,N-dimethyl-, N-oxide	(CAS-No.) 2605-78-9	3 - 5	Not classified
Fragrance Current Basic G	Proprietary	< 1	Flam. Liq. 4, H227 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Repr. 2, H361
Copper	(CAS-No.) 7440-50-8	< 0.01	Not classified

Full text of hazard classes and H-statements : see section 16

irst-aid measures after inhalation	Move to fresh air.

If unconscious, place in recovery position and seek medical advice. If breathing is irregular or stopped, administer artificial respiration. Call a physician or poison control center immediately. Keep respiratory tract clear.

### First-aid measures after skin contact

: After contact with skin, wash immediately with plenty of soap and water. Take off contaminated clothing and shoes immediately. Immediate medical treatment is necessary as untreated wounds from corrosion of the skin heal slowly and with difficulty. Take victim immediately to hospital.

### First-aid measures after eye contact

: In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. Continue rinsing eyes during transport to hospital.

#### First-aid measures after ingestion

: Clean mouth with water and drink afterwards plenty of water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Take victim immediately to hospital.

# Symptoms/effects after inhalation

: None under normal use.

Symptoms/effects after skin contact

: Causes severe skin burns.

Symptoms/effects after eye contact Symptoms/effects after ingestion : Small amounts splashed into eyes can cause irreversible tissue damage and blindness.

: Harmful if swallowed.

# No additional information available

## Suitable extinguishing media

: Water spray, Alcohol resistant foam, dry chemical

Unsuitable extinguishing media

: High volume water jet.

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Fire hazard : Heating or fire can release toxic gas.

Explosion hazard : None known.

Protection during firefighting : Firefighters should wear full protective gear. Use water spray to cool unopened containers.

#### No additional information available

Use respirator when performing operations involving potential exposure to vapor of the product.

Prevent entry to sewers and public waters.

For containment : Stop the flow of material, if this is without risk.

Methods for cleaning up : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth,

diatomaceous earth, vermiculite) and place in container for disposal according to local /

national regulations

No additional information available

Precautions for safe handling : Do not breathe vapors/dust. Avoid contact with skin and eyes. Smoking, eating and drinking should be prohibited in the application area. Provide sufficient air exchange and/or exhaust in

work rooms. To avoid spills during handling keep bottle on a metal tray. Dispose of rinse water

in accordance with local and national regulations.

Storage conditions : Keep container tightly closed. Keep in a well-ventilated place. Containers which are opened

must be carefully resealed and kept upright to prevent leakage. Electrical installations / working materials must comply with the technological safety standards. To maintain product quality, do

not store in heat or direct sunlight.

Not applicable

Not applicable

ACGIH	ACGIH STEL (ppm)	1000 ppm
OSHA	OSHA PEL (TWA) (mg/m³)	1900 mg/m³
OSHA	OSHA PEL (TWA) (ppm)	1000 ppm
IDLH	US IDLH (ppm)	3300 ppm (10% LEL)
NIOSH	NIOSH REL (TWA) (mg/m³)	1900 mg/m³
NIOSH	NIOSH REL (TWA) (ppm)	1000 ppm

Not applicable

Not applicable

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ACGIH	ACGIH TWA (mg/m³)	0.2 mg/m³ (fume)
OSHA	OSHA PEL (TWA) (mg/m³)	0.1 mg/m³ (fume) 1 mg/m³ (dust and mist)
IDLH	US IDLH (mg/m³)	100 mg/m³ (dust, fume and mist)
NIOSH	NIOSH REL (TWA) (mg/m³)	1 mg/m³ (dust and mist) 0.1 mg/m³ (fume)

Appropriate engineering controls : None required under normal product handling conditions.

Hand protection : Wear impervious gloves to minimize skin contact.

Eye protection : Chemical goggles or safety glasses.
Skin and body protection : Wear suitable working clothes.

Respiratory protection : None required under normal product handling conditions. In the case of vapor formation use a

respirator with an approved filter.

Physical state : Liquid

Color : Colorless

Odor : Characteristic

Odor threshold : No data available

pH : 7.2 - 8.2

Melting point : No data available
Freezing point : No data available
Boiling point : No data available

Flash point : 66 °C

Relative evaporation rate (butyl acetate=1) : No data available Flammability (solid, gas) : No data available Vapor pressure No data available Relative vapor density at 20 °C : No data available Relative density : No data available Solubility : No data available Log Pow : No data available Auto-ignition temperature : No data available : No data available Decomposition temperature Viscosity : No data available : No data available Viscosity, kinematic : No data available Viscosity, dynamic **Explosion limits** : No data available Explosive properties : No data available Oxidizing properties : No data available

No additional information available

No additional information available

The product is stable at normal handling and storage conditions.

Will not occur.

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Heat

Strong oxidizing agents. Strong acids and strong bases

Not determined.

Acute toxicity : Not classified

487.836 mg/kg body weight
1100 mg/kg body weight
84 mg/kg
84 mg/kg
426 mg/kg
426 mg/kg
7060 mg/kg
124.7 mg/l/4h
7060 mg/kg
> 2000 mg/kg
1700 mg/kg body weight

Skin corrosion/irritation : Causes severe skin burns and eye damage.

Serious eye damage/irritation : Causes serious eye damage.

Respiratory or skin sensitization : Not classified Germ cell mutagenicity : Not classified Carcinogenicity : Not classified

IARC group	1 - Carcinogenic to humans
In OSHA Hazard Communication Carcinogen list	Yes

Reproductive toxicity : Suspected of damaging fertility or the unborn child.

Specific target organ toxicity – single exposure : Not classified Specific target organ toxicity - repeated

exposure

: Not classified

Aspiration hazard : Not classified

LC50 fish 1	12.0 - 16.0 ml/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static])
EC50 Daphnia 1	9268 - 14221 mg/l (Exposure time: 48 h - Species: Daphnia magna)
LC50 fish 2	> 100 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
EC50 Daphnia 2	2 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])

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LC50 fish 2

LC50 fish 1	34 - 62 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])
EC50 Daphnia 1	113 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])
LC50 fish 2	44.2 - 76.5 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
LC50 fish 1	0.0068 - 0.0156 mg/l (Exposure time: 96 h - Species: Pimephales promelas)
EC50 Daphnia 1	0.03 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])

< 0.3 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])

No additional information available

Log Pow	-0.32

No additional information available

No additional information available

Product/Packaging disposal recommendations : Dispose of contents/container in accordance with local/regional/national/international

regulations.

In accordance with DOT

Transport document description : UN1760 Corrosive liquids, n.o.s. (Alkyldimethylbenzyl ammonium chloride,

Didecyldimethylammonium chloride), 8, II

UN-No.(DOT) : UN1760

Proper Shipping Name (DOT) : Corrosive liquids, n.o.s.

Alkyldimethylbenzyl ammonium chloride, Didecyldimethylammonium chloride

Class (DOT) : 8 - Class 8 - Corrosive material 49 CFR 173.136

Packing group (DOT) : II - Medium Danger Hazard labels (DOT) : 8 - Corrosive



DOT Packaging Non Bulk (49 CFR 173.xxx) : 202 DOT Packaging Bulk (49 CFR 173.xxx) : 242

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DOT Special Provisions (49 CFR 172.102)

: B2 - MC 300, MC 301, MC 302, MC 303, MC 305, and MC 306 and DOT 406 cargo tanks are not authorized

IB2 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized.

T11 - 6 178.274(d)(2) Normal...... 178.275(d)(3)

TP2 - a. The maximum degree of filling must not exceed the degree of filling determined by the following: (image) Where: tr is the maximum mean bulk temperature during transport, tf is the temperature in degrees celsius of the liquid during filling, and a is the mean coefficient of cubical expansion of the liquid between the mean temperature of the liquid during filling (tf) and the maximum mean bulk temperature during transportation (tr) both in degrees celsius. b. For liquids transported under ambient conditions may be calculated using the formula: (image) Where: d15 and d50 are the densities (in units of mass per unit volume) of the liquid at 15 C (59 F) and 50 C (122 F), respectively.

TP27 - A portable tank having a minimum test pressure of 4 bar (400 kPa) may be used provided the calculated test pressure is 4 bar or less based on the MAWP of the hazardous material, as defined in 178.275 of this subchapter, where the test pressure is 1.5 times the

MAWP.

DOT Packaging Exceptions (49 CFR 173.xxx) : 154 DOT Quantity Limitations Passenger aircraft/rail : 1 L

(49 CFR 173.27)

DOT Quantity Limitations Cargo aircraft only (49 : 30 L

CFR 175.75)

**DOT Vessel Stowage Location** 

: B - (i) The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length; and (ii) "On deck only" on passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this section is exceeded.

DOT Vessel Stowage Other : 40 - Stow "clear of living quarters"

Emergency Response Guide (ERG) Number

Other information : No supplementary information available.

Listed on the United States TSCA (Toxic Substances Control Act) inventory		
Listed on the United States TSCA (Toxic Substan	nces Control Act) inventory	
EPA TSCA Regulatory Flag	TP - TP - indicates a substance that is the subject of a proposed TSCA section 4 test rule.	
Listed on the United States TSCA (Toxic Substan	nces Control Act) inventory	
Listed on the United States TSCA (Toxic Substan	nces Control Act) inventory	
EPA TSCA Regulatory Flag	P - P - indicates a commenced Premanufacture Notice (PMN) substance.	
Listed on the United States TSCA (Toxic Substan	nces Control Act) inventory	
CERCLA RQ	5000 lb	
Listed on the United States TSCA (Toxic Substances Control Act) inventory Subject to reporting requirements of United States SARA Section 313		
CERCLA RQ	5000 lb no reporting of releases of this hazardous substance is required if the diameter of the pieces of the solid metal released is >100 $\mu$ m	
SARA Section 313 - Emission Reporting	1 %	

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U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)
Yes	Yes	No	No	

- U.S. Massachusetts Right To Know List
- U.S. Minnesota Hazardous Substance List
- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. Pennsylvania RTK (Right to Know) List
- U.S. Massachusetts Right To Know List
- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. Pennsylvania RTK (Right to Know) List
- U.S. Massachusetts Right To Know List
- U.S. Minnesota Hazardous Substance List
- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. Pennsylvania RTK (Right to Know) List

#### Full text of H-phrases:

xt of Figure 25.	
Acute Tox. 3 (Oral)	Acute toxicity (oral) Category 3
Acute Tox. 4 (Dermal)	Acute toxicity (dermal) Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Carc. 1A	Carcinogenicity Category 1A
Eye Dam. 1	Serious eye damage/eye irritation Category 1
Eye Irrit. 2	Serious eye damage/eye irritation Category 2
Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
Flam. Liq. 2	Flammable liquids Category 2
Flam. Liq. 4	Flammable liquids Category 4
Repr. 2	Reproductive toxicity Category 2
Skin Corr. 1C	Skin corrosion/irritation Category 1C
Skin Irrit. 2	Skin corrosion/irritation Category 2
Skin Sens. 1	Skin sensitization, Category 1
H225	Highly flammable liquid and vapour
H227	Combustible liquid
H301	Toxic if swallowed
H302	Harmful if swallowed
H312	Harmful in contact with skin
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H319	Causes serious eye irritation
H350	May cause cancer
H361	Suspected of damaging fertility or the unborn child

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

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# SAFETY DATA SHEET

P007

# Section 1. Identification

Product name : STEP ONE® Interior/Exterior All Surface Acrylic Stainblocking Primer

Product code : P007

Other means of : Not available.

identification

Product type : Liquid.

Relevant identified uses of the substance or mixture and uses advised against

Not applicable.

Manufacturer : Conco Paints

101 Prospect Avenue N.W. Cleveland, OH 44115

Emergency telephone number of the company

: (216) 566-2917

Product Information Telephone Number

: Not available.

Regulatory Information Telephone Number

: (216) 566-2902

Transportation Emergency

: (800) 424-9300

**Telephone Number** 

# Section 2. Hazards identification

OSHA/HCS status

: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Classification of the substance or mixture

: CARCINOGENICITY - Category 1A

SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (respiratory tract) -

Category 1

Percentage of the mixture consisting of ingredient(s) of unknown toxicity: 11.4%

**GHS label elements** 

Hazard pictograms :



Signal word

: Danger

**Hazard statements** 

: May cause cancer.

Causes damage to organs through prolonged or repeated exposure. (respiratory tract)

**Precautionary statements** 

**General** 

: Read label before use. Keep out of reach of children. If medical advice is needed, have product container or label at hand.

**Prevention** 

: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves. Wear eye or face protection. Wear protective clothing. Do not breathe vapor. Do not eat, drink or smoke when using

this product. Wash hands thoroughly after handling.

Response

: Get medical attention if you feel unwell. IF exposed or concerned: Get medical

attention.

Storage : Store locked up.

Date of issue/Date of revision : 3/27/2016 Date of previous issue : 2/13/2016 Version : 2 1/11

# Section 2. Hazards identification

**Disposal** 

Dispose of contents and container in accordance with all local, regional, national and international regulations.

Supplemental label elements

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. Adequate ventilation required when sanding or abrading the dried film. If Adequate ventilation cannot be provided wear an approved particulate respirator (NIOSH approved). Follow respirator manufacturer's directions for respirator use. DELAYED EFFECTS FROM LONG TERM OVEREXPOSURE. Abrading or sanding of the dry film may release Crystalline Silica

which has been shown to cause lung damage and cancer under long term exposure. Please refer to the SDS for additional information. Do not transfer contents to other

containers for storage.

Hazards not otherwise classified

: None known.

# Section 3. Composition/information on ingredients

Substance/mixture

: Mixture

Other means of identification

: Not available.

### **CAS** number/other identifiers

Ingredient name	% by weight	CAS number
Titanium Dioxide	≥10 - ≤25	13463-67-7
Cristobalite	≤3	14464-46-1
crystalline silica, respirable powder	≤0.3	14808-60-7

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

# Section 4. First aid measures

# Description of necessary first aid measures

**Eye contact** 

: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.

**Inhalation** 

: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

**Skin contact** 

: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Ingestion

: Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Date of issue/Date of revision : 3/27/2016 Date of previous issue : 2/13/2016 Version : 2 2/11

# Section 4. First aid measures

# Most important symptoms/effects, acute and delayed

# Potential acute health effects

Eye contact
 Inhalation
 Skin contact
 Ingestion
 No known significant effects or critical hazards.
 No known significant effects or critical hazards.
 No known significant effects or critical hazards.
 No known significant effects or critical hazards.

### **Over-exposure signs/symptoms**

Eye contact : No specific data.
Inhalation : No specific data.
Skin contact : No specific data.
Ingestion : No specific data.

# Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician

: Treat symptomatically. Contact poison treatment specialist immediately if large

quantities have been ingested or inhaled.

**Specific treatments** 

: No specific treatment.

**Protection of first-aiders** 

: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

# See toxicological information (Section 11)

# Section 5. Fire-fighting measures

# **Extinguishing media**

Suitable extinguishing

media

: Use an extinguishing agent suitable for the surrounding fire.

**Unsuitable extinguishing** 

media

: None known.

Specific hazards arising from the chemical

: In a fire or if heated, a pressure increase will occur and the container may burst.

Hazardous thermal decomposition products

 Decomposition products may include the following materials: carbon dioxide carbon monoxide

metal oxide/oxides

Special protective actions for fire-fighters

: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters

: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

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# Section 6. Accidental release measures

# Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For nonemergency personnel".

### **Environmental precautions**

: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

# Methods and materials for containment and cleaning up

**Small spill** 

: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

# Large spill

: Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

# Section 7. Handling and storage

# **Precautions for safe handling**

**Protective measures** 

Put on appropriate personal protective equipment (see Section 8). Avoid exposure obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

# Advice on general occupational hygiene

: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating. drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

# including any incompatibilities

Conditions for safe storage, : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

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# Section 8. Exposure controls/personal protection

# **Control parameters**

# **Occupational exposure limits**

Ingredient name	Exposure limits		
Titanium Dioxide	ACGIH TLV (United States, 3/2015). TWA: 10 mg/m³ 8 hours. OSHA PEL (United States, 2/2013). TWA: 15 mg/m³ 8 hours. Form: Total dust		
Cristobalite	OSHA PEL Z3 (United States, 2/2013).  TWA: 250 MPPCF / 2 x (%SiO2+5) 8 hours.  Form: Respirable  TWA: 10 MG/M3 / 2 x (%SiO2+2) 8 hours.  Form: Respirable  TWA: 30 MG/M3 / 2 x (%SiO2+2) 8 hours.  Form: Total dust  ACGIH TLV (United States, 3/2015).  TWA: 0.025 mg/m³ 8 hours. Form:  Respirable fraction  NIOSH REL (United States, 10/2013).  TWA: 0.05 mg/m³ 10 hours. Form: respirable dust		
crystalline silica, respirable powder	OSHA PEL Z3 (United States, 2/2013).  TWA: 250 MPPCF / (%SiO2+5) 8 hours.  Form: Respirable  TWA: 10 MG/M3 / (%SiO2+2) 8 hours. Form:  Respirable  ACGIH TLV (United States, 3/2015).  TWA: 0.025 mg/m³ 8 hours. Form:  Respirable fraction  NIOSH REL (United States, 10/2013).  TWA: 0.05 mg/m³ 10 hours. Form: respirable dust		

# Appropriate engineering controls

: If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

# **Environmental exposure** controls

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

# **Individual protection measures**

**Hygiene measures** 

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.

Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

### **Eye/face protection**

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with sideshields.

# **Skin protection**

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# Section 8. Exposure controls/personal protection

# **Hand protection**

Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

### **Body protection**

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection

: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Respiratory protection** 

: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

# Section 9. Physical and chemical properties

**Appearance** 

Physical state : Liquid.

Color : Not available.

Odor : Not available.

Odor threshold : Not available.

**pH** : 9

Melting point : Not available.

Boiling point : 100°C (212°F)

Flash point : Closed cup: >93.3°C (>199.9°F)

**Evaporation rate** : 0.09 (butyl acetate = 1)

Flammability (solid, gas) : Not available.

Lower and upper explosive (flammable) limits : Lower: 0.6% Upper: 4.2%

Vapor pressure : 0.31 kPa (2.333 mm Hg) [at 20°C]

Vapor density : 1 [Air = 1] Relative density : 1.28

Solubility : Not available.

Partition coefficient: noctanol/water : Not available.

Auto-ignition temperature : Not available.

Decomposition temperature : Not available.

Viscosity : Kinematic (room temperature): >0.205 cm²/s (>20.5 cSt)

Kinematic (40°C (104°F)): >0.205 cm²/s (>20.5 cSt)

Molecular weight : Not applicable.

Aerosol product

**Heat of combustion** : 1.111 kJ/g

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# Section 10. Stability and reactivity

**Reactivity**: No specific test data related to reactivity available for this product or its ingredients.

**Chemical stability**: The product is stable.

Possibility of hazardous

reactions

: Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid : No specific data.

**Incompatible materials**: No specific data.

**Hazardous decomposition** 

products

: Under normal conditions of storage and use, hazardous decomposition products should

not be produced.

# **Section 11. Toxicological information**

# Information on toxicological effects

# **Acute toxicity**

Not available.

# **Irritation/Corrosion**

Product/ingredient name	Result	Species	Score	Exposure	Observation
Titanium Dioxide	Skin - Mild irritant	Human		72 hours 300 Micrograms Intermittent	-

# **Sensitization**

Not available.

# Mutagenicity

Not available.

# **Carcinogenicity**

Not available.

# **Classification**

Product/ingredient name	OSHA	IARC	NTP
Titanium Dioxide Cristobalite crystalline silica, respirable powder	-		- Known to be a human carcinogen. Known to be a human carcinogen.

# **Reproductive toxicity**

Not available.

# **Teratogenicity**

Not available.

# Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

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# **Section 11. Toxicological information**

Name	 Route of exposure	Target organs
Cristobalite crystalline silica, respirable powder		respiratory tract Not determined

# **Aspiration hazard**

Not available.

Information on the likely

: Not available.

routes of exposure

Potential acute health effects

Eye contact
 Inhalation
 No known significant effects or critical hazards.
 Skin contact
 No known significant effects or critical hazards.
 Ingestion
 No known significant effects or critical hazards.

# Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : No specific data.
Inhalation : No specific data.
Skin contact : No specific data.
Ingestion : No specific data.

# Delayed and immediate effects and also chronic effects from short and long term exposure

**Short term exposure** 

Potential immediate : Not available.

effects

Potential delayed effects : Not available.

**Long term exposure** 

Potential immediate : Not available.

effects

Potential delayed effects : Not available.

# Potential chronic health effects

Not available.

General : Causes damage to organs through prolonged or repeated exposure.

**Carcinogenicity** : May cause cancer. Risk of cancer depends on duration and level of exposure.

Mutagenicity: No known significant effects or critical hazards.Teratogenicity: No known significant effects or critical hazards.Developmental effects: No known significant effects or critical hazards.Fertility effects: No known significant effects or critical hazards.

# **Numerical measures of toxicity**

# **Acute toxicity estimates**

Route	ATE value
Oral	224452.9 mg/kg

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# **Section 12. Ecological information**

### **Toxicity**

Product/ingredient name	Result	Species	Exposure
Titanium Dioxide	Acute LC50 >1000000 μg/l Marine water	Fish - Fundulus heteroclitus	96 hours

# Persistence and degradability

Not available.

### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
Titanium Dioxide	-	352	low

# **Mobility in soil**

Soil/water partition coefficient (Koc)

: Not available.

Other adverse effects

: No known significant effects or critical hazards.

# Section 13. Disposal considerations

# **Disposal methods**

: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

# **Section 14. Transport information**

	DOT Classification	TDG Classification	Mexico Classification	IATA	IMDG
UN number	Not regulated.				
UN proper shipping name	-	-	-	-	-
Transport hazard class(es)	-	-	-	-	-
Packing group	-	-	-	-	-
Environmental hazards	No.	No.	No.	No.	No.
Additional information	Special provisions Not Applicable				

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# Section 14. Transport information

Special precautions for user : Multi-modal shipping descriptions are provided for informational purposes and do not consider container sizes. The presence of a shipping description for a particular mode of transport (sea, air, etc.), does not indicate that the product is packaged suitably for that mode of transport. All packaging must be reviewed for suitability prior to shipment, and compliance with the applicable regulations is the sole responsibility of the person offering the product for transport. People loading and unloading dangerous goods must be trained on all of the risks deriving from the substances and on all actions in case of emergency situations.

Transport in bulk according : Not available. to Annex II of MARPOL and

the IBC Code

Proper shipping name : Not available. : Not available. Ship type **Pollution category** : Not available.

# Section 15. Regulatory information

# **SARA 313**

SARA 313 (40 CFR 372.45) supplier notification can be found on the Environmental Data Sheet.

# California Prop. 65

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

# Section 16. Other information

**Hazardous Material Information System (U.S.A.)** 



The customer is responsible for determining the PPE code for this material.

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks Although HMIS® ratings are not required on SDSs under 29 CFR 1910. 1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

# Procedure used to derive the classification

# Classification

**CARCINOGENICITY - Category 1A** SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (respiratory tract) - Category 1

# **Justification**

Calculation method Calculation method

### **History**

**Date of printing** : 3/27/2016 Date of issue/Date of 3/27/2016

revision

**Date of previous issue** : 2/13/2016

: 2 Version

Date of issue/Date of revision : 3/27/2016 Date of previous issue : 2/13/2016 Version : 2 10/11

# Section 16. Other information

**Key to abbreviations** 

ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships, 1973

as modified by the Protocol of 1978. ("Marpol" = marine pollution)

**UN = United Nations** 

### **Notice to reader**

It is recommended that each customer or recipient of this Safety Data Sheet (SDS) study it carefully and consult resources, as necessary or appropriate, to become aware of and understand the data contained in this SDS and any hazards associated with the product. This information is provided in good faith and believed to be accurate as of the effective date herein. However, no warranty, express or implied, is given. The information presented here applies only to the product as shipped. The addition of any material can change the composition, hazards and risks of the product. Products shall not be repackaged, modified, or tinted except as specifically instructed by Sherwin-Williams, including but not limited to the incorporation of non Sherwin-Williams products or the use or addition of products in proportions not specified by Sherwin-Williams. Regulatory requirements are subject to change and may differ between various locations and jurisdictions. The customer/buyer/user is responsible to ensure that his activities comply with all country, federal, state, provincial or local laws. The conditions for use of the product are not under the control of the manufacturer; the customer/buyer/user is responsible to determine the conditions necessary for the safe use of this product. The customer/buyer/user should not use the product for any purpose other than the purpose shown in the applicable section of this SDS without first referring to the supplier and obtaining written handling instructions. Due to the proliferation of sources for information such as manufacturer-specific SDS, the manufacturer cannot be responsible for SDSs obtained from any other source.

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# SAFETY DATA SHEET



Issuing Date: 17-Dec-2015 Revision Date: 25-Oct-2016 Version 3

This Safety Data Sheet (SDS) is not required under local legislation, implementing the UN Globally Harmonized System (GHS). This SDS is being provided as a courtesy to help assist in the safe handling and proper use of the product

# 1. IDENTIFICATION

Product Name Tide

Product Identifier 90785649\_RET\_NG

**Product Type:** Finished Product - Consumer (Retail) Use Only

Recommended Use Laundry Care.

**Restrictions on Use**Use only as directed on label.

Details of the supplier of the safety

data sheet

PROCTER & GAMBLE - Fabric and Home Care Division

Ivorydale Technical Centre 5289 Spring Grove Avenue

Cincinnati, Ohio 45217-1087 USA

Procter & Gamble Inc. P.O. Box 355, Station A Toronto, ON M5W 1C5

1-800-331-3774

E-mail Address pgsds.im@pg.com

**Emergency Telephone** Transportation (24 HR)

CHEMTREC - 1-800-424-9300 (U.S./ Canada) or 1-703-527-3887 Mexico toll free in country: 800-681-9531

# 2. HAZARD IDENTIFICATION

"Consumer Products", as defined by the US Consumer Product Safety Act and which are used as intended (typical consumer duration and frequency), are exempt from the OSHA Hazard Communication Standard (29 CFR 1910.1200). This SDS is being provided as a courtesy to help assist in the safe handling and proper use of the product.

This product is classifed under 29CFR 1910.1200(d) and the Canadian Hazardous Products Regulation as follows:.

**Hazard Category** 

Skin corrosion/irritation Category 2
Eye Damage / Irritation Category 2A
Signal Word WARNING

Hazard Statements Causes serious eye irritation

Causes skin irritation

**Hazard pictograms** 

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Precautionary Statements Wash hands thoroughly after handling

Precautionary Statements - Response

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing

If eye irritation persists: Get medical advice/attention

IF SWALLOWED:

Drink 1 or 2 glasses of water

IF ON SKIN:

Rinse with plenty of water

If skin irritation occurs, get medical advice/attention

Precautionary Statements - Storage None

Precautionary Statements - DisposalNone

Hazards not otherwise classified None

(HNOC)

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients are listed according to 29CFR 1910.1200 Appendix D and the Canadian Hazardous Products Regulation

Chemical Name	Synonyms	Trade Secret	CAS-No	Weight %
Sodium carbonate	Carbonic acid sodium salt (1:2)	No	497-19-8	25 - 30
Benzenesulfonic acid, mono-C10-16-alkyl derivs., sodium salts	Benzenesulfonic acid, mono-C10-16-alkyl derivs., sodium salts	No	68081-81-2	10 - 15
Silicic acid, aluminum sodium salt	Silicic acid, aluminum sodium salt	No	1344-00-9	10 - 15
Carbonic acid disodium salt, compd. with hydrogen peroxide	Carbonic acid disodium salt, compd. with hydrogen peroxide	No	15630-89-4	5 - 10
Sodium 2-(nonanoyloxy)benzenesulfonate	Nonanoic acid, sulfophenyl ester, sodium salt (1:1)	No	91125-43-8	1 - 5
Silicic acid, sodium salt	Silicic acid, sodium salt	No	1344-09-8	1 - 5
Poly(oxy-1,2-ethanediyl), alpha-sulfo-omega-hydroxy-, C10-16-alkyl ethers, sodium salts	Poly(oxy-1,2-ethanediyl), alpha-sulfo-omega-hydro xy-, C10-16-alkyl ethers, sodium salts	No	68585-34-2	1 - 5

# 4. FIRST AID MEASURES

# First aid measures for different exposure routes

**Eye contact** Rinse with plenty of water. Get medical attention immediately if irritation persists.

**Skin contact** Rinse with plenty of water. Get medical attention if irritation develops and persists.

Ingestion Drink 1 or 2 glasses of water. Do NOT induce vomiting. Get medical attention immediately if

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symptoms occur.

**Inhalation** Move to fresh air. If symptoms persist, call a physician.

Most important symptoms/effects,

acute and delayed

None under normal use conditions.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to Physician Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media Dry chemical, CO<sub>2</sub>, alcohol-resistant foam or water spray.

Unsuitable Extinguishing Media None.

Special hazard None known.

Special protective equipment for

fire-fighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH

(approved or equivalent) and full protective gear.

Specific hazards arising from the

chemical

None.

# 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

**Personal precautions**Use personal protective equipment. Do not get in eyes, on skin, or on clothing.

Methods and materials for containment and cleaning up

Methods for containment Prevent dust cloud. Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Sweep up and shovel into suitable containers for disposal. Dispose of in accordance with

local regulations.

# 7. HANDLING AND STORAGE

Precautions for safe handling

Never return spills in original containers for re-use. Keep out of the reach of children.

Conditions for safe storage, including any incompatibilities

**Storage Conditions** Keep containers tightly closed in a dry, cool and well-ventilated place.

Incompatible products None known.

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Control parameters** 

Exposure Guidelines . . .

Chemical Name	CAS-No	Alberta	Quebec	Ontario TWAEV	British Columbia
Silicic acid, aluminum sodium	1344-00-9			TWA: 1 mg/m <sup>3</sup>	TWA: 1.0 mg/m <sup>3</sup>
salt					

No relevant exposure guidelines for other ingredients

**Exposure controls** 

Engineering Measures Distribution, Workplace and Household Settings:

Ensure adequate ventilation

Product Manufacturing Plant (needed at Product-Producing Plant ONLY): Where reasonably practicable this should be achieved by the use of local exhaust

ventilation and good general extraction

Personal Protective Equipment

Eye Protection Distribution, Workplace and Household Settings:

No special protective equipment required

Product Manufacturing Plant (needed at Product-Producing Plant ONLY):

Use appropriate eye protection

Hand Protection Distribution, Workplace and Household Settings:

For sensitive skin or prolonged use, wear gloves

Product Manufacturing Plant (needed at Product-Producing Plant ONLY):

Protective gloves

Skin and Body Protection Distribution, Workplace and Household Settings:

No special protective equipment required

Product Manufacturing Plant (needed at Product-Producing Plant ONLY):

Wear suitable protective clothing

Respiratory Protection Distribution, Workplace and Household Settings:

No special protective equipment required

Product Manufacturing Plant (needed at Product-Producing Plant ONLY):

In case of inadequate ventilation wear respiratory protection

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State @20°C Solid

Appearance white powder blue specks

**Odor** Scented

Odor threshold No information available

Property Values Note

pH value 10 - 11.4

Melting/freezing point No information available

Melting/freezing pointNo information availableBoiling point/boiling rangeNo information availableFlash pointNo information available

Evaporation rate

Flammability (solid, gas)
Flammability Limits in Air

No information available
No information available

Upper flammability limit
Lower Flammability Limit
No information available
No information available

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Vapor pressureNo information availableVapor densityNo information available

Relative density 400 - 650 g/l

Water solubility
No information available
Partition coefficient: n-octanol/waterNo information available
Autoignition temperature
No information available
Decomposition temperature
No information available

VOC Content (%) Products comply with US state and federal regulations for VOC content in consumer

products.

No information available

# 10. STABILITY AND REACTIVITY

**Reactivity** None under normal use conditions.

**Stability** Stable under normal conditions.

**Hazardous polymerization** Hazardous polymerization does not occur.

**Hazardous Reactions** None under normal processing.

**Conditions to Avoid**None under normal processing.

Materials to avoid None in particular.

Hazardous Decomposition Products None under normal use conditions.

# 11. TOXICOLOGICAL INFORMATION

#### **Product Information**

**Viscosity of Product** 

Information on likely routes of exposure

InhalationNo known effect.Skin contactIrritating to skin.IngestionNo known effect.

**Eye contact** Causes serious eye irritation.

# Delayed and immediate effects as well as chronic effects from short and long-term exposure

Acute toxicity No known effect. Skin corrosion/irritation Irritating to skin.

Serious eye damage/eye irritation Causes serious eye irritation.

Skin sensitization No known effect. Respiratory sensitization No known effect. Germ cell mutagenicity No known effect. **Neurological Effects** No known effect. Reproductive toxicity No known effect. No known effect. **Developmental toxicity** No known effect. **Teratogenicity** STOT - single exposure No known effect. STOT - repeated exposure No known effect. **Target Organ Effects** No known effect. **Aspiration hazard** No known effect. Carcinogenicity No known effect.

#### **Component Information**

Chemical Name	CAS-No	Oral LD50	Dermal LD50	Inhalation LC50
Sodium carbonate	497-19-8	2800 mg/kg bw	> 2000 mg/kg bw (US EPA	-
			16 CFR 1500.40)	
Silicic acid, aluminum sodium salt	1344-00-9	> 10000 mg/kg bw	> 5000 mg/kg bw (//OECD	> 2.08 mg/L air (//OECD
		(//OECD 401)	402)	403)
Carbonic acid disodium salt, compd.	15630-89-4	893 mg/kg bw (U.S. EPA	> 2000 mg/kg bw (EPA	-
with hydrogen peroxide		Office of Pesticides and	Guideline; standard acute	

		Toxic Substances (1984) "Acute Exposure Oral Toxicity"; standard acute method; rat)	method; rabbit)	
Silicic acid, sodium salt	1344-09-8	3400 mg/kg bw (Similar to OECD 401; standard acute method; rat)	> 5000 mg/kg bw (Read across data on AgSil TM 25 Potassium silicate solution; rat)	> 2.06 mg/L air (Read across data AgSil TM 25 Potassium silicate solution; EPA OPPTS 870.1300; standard acute method; rat)
Poly(oxy-1,2-ethanediyl), alpha-sulfo-omega-hydroxy-, C10-16-alkyl ethers, sodium salts	68585-34-2	>2001 mg/kg	-	-

# 12. ECOLOGICAL INFORMATION

#### **Ecotoxicity**

The product is not expected to be hazardous to the environment.

Persistence and degradability No information available.

Bioaccumulative potential No information available.

**Mobility** No information available.

Other adverse effects No information available.

# 13. DISPOSAL CONSIDERATIONS

#### Waste treatment

Waste from Residues / Unused

**Products** 

Disposal should be in accordance with applicable regional, national and local laws and

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regulations.

Contaminated packaging Disposal should be in accordance with applicable regional, national and local laws and

regulations.

California Hazardous Waste Codes 331

(non-household setting)

# 14. TRANSPORT INFORMATION

DOTNot regulatedIMDGNot regulatedIATANot regulated

# 15. REGULATORY INFORMATION

#### U.S. Federal Regulations

#### SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

#### **CERCLA**

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302):.

Chemical Name			Extremely Hazardous Substances RQs	CERCLA/SARA 302 TPQ	
Sulphuric acid	7664-93-9	1000 lb	1000 lb	1000 lb	
Sodium hydroxide	1310-73-2	1000 lb	-		

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#### Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product does not contain any substances regulated as hazardous air pollutants (HAPS) under Section 112 of the Clean Air Act Amendments of 1990.

#### **Clean Water Act**

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42):.

Chemical Name	CAS-No	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances	
Sulphuric acid	7664-93-9	1000 lb	-	-	X	
Sodium hydroxide	1310-73-2	1000 lb	-	-	X	

#### **California Proposition 65**

This product is not subject to warning labeling under California Proposition 65.

Ethanol is only a considered a Proposition 65 developmental hazard when it is ingested as an alcoholic beverage.

# U.S. State Regulations (RTK)

•	

Chemical Name	CAS-No	Massachusetts		
Sulfuric acid sodium salt (1:2)	7757-82-6	X		

Chemical Name	CAS-No	Pennsylvania
Sulfuric acid sodium salt (1:2)	7757-82-6	X
Sulphuric acid	7664-93-9	X
Sodium hydroxide	1310-73-2	X

# International Inventories

#### **United States**

All intentionally-added components of this product(s) are listed on the US TSCA Inventory.

#### Canada

This product is in compliance with CEPA for import by P&G.

# Legend

United States Toxic Substances Control Act Section 8(b) Inventory (TSCA)

CEPA - Canadian Environmental Protection Act

# **16. OTHER INFORMATION**

**Issuing Date:** 17-Dec-2015 **Revision Date:** 25-Oct-2016

**Disclaimer** 

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

**End of SDS** 

Revision Date: 25-Oct-2016



# Section 1 - PRODUCT AND COMPANY IDENTIFICATION

**Material Name** 

PERFORMANCE PLUS ENGINE OIL

Includes Grades: 5W-20, 5W-30, 10W-30, 10W-40, 20W-50, 10W, 30, SAE 30

**Product Code** 

Prefix 21

**Synonyms** 

Petroleum oil; Lube oil; Petroleum hydrocarbon; Lubricant.

**Product Use Recommended Use** 

For lubricating passenger car motors. If this product is used in combination with other products, refer to the Safety Data Sheets for those products.

**Restrictions on Use** 

None known.

MANUFACTURER/SUPPLIER

Safety-Kleen Systems, Inc.

2600 North Central Expressway

Suite 200

Richardson, TX 75080

www.safety-kleen.com

IMPORTER/DISTRIBUTOR

Safety-Kleen Canada, Inc.

25 Regan Road

Brampton, Ontario, Canada L1A 1B2

Phone: 1-800-669-5740 Emergency Phone #: 1-800-468-1760

**Issue Date** 

March 30, 2017

**Supersedes Issue Date** 

October 27, 2015

**Original Issue Date** 

October 31, 1988

# Section 2 - HAZARDS IDENTIFICATION

Classification in accordance with Schedule 1 of Canada's Hazardous Products Regulations (HPR) (SOR/2015-17) and paragraph (d) of 29 CFR 1910.1200 in the United States

Not hazardous according to classification criteria.

**GHS Label Elements** 

Symbol(s)

None needed according to classification criteria.

Signal Word

None needed according to classification criteria.

**Hazard Statement(s)** 

None needed according to classification criteria.

**Precautionary Statement(s)** 

Prevention

None needed according to classification criteria.

Response

None needed according to classification criteria.

Storage

None needed according to classification criteria.

# **Disposal**

Dispose of contents/container in accordance with local/regional/national/international regulations.

# Hazard(s) Not Otherwise Classified

Repeated exposure may cause skin dryness or cracking. When aerosolizing, misting, or heating these products, high concentrations of generated vapor or mist may irritate the respiratory tract (nose, throat, and lungs).

# Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

CAS	Component Name	Percent
64741-88-4	Petroleum distillates, solvent-refined heavy paraffinic	0-100
64742-01-4	Residual oils, petroleum, solvent-refined	0-100
64742-57-0	Residual oils (petroleum), hydrotreated	0-100
72623-83-7	Lubricating oils, petroleum, C>25, hydrotreated bright stock-based	0-100
64742-62-7	Residual oils (petroleum), solvent dewaxed	0-100
64742-58-1	Lubricating oils, petroleum, hydrotreated spent	3-100
72623-87-1	Lubricating oils, petroleum, C20-50, hydrotreated neutral oil-based	0-40
178603-64-0	Gas oils, petroleum, vacuum, hydrocracked, hydroisomerized, hydrogenated, C15-30, branched and cyclic, high viscosity index	0-45
178603-65-1	Gas oils, petroleum, vacuum, hydrocracked, hydroisomerized, hydrogenated, C20-40, branched and cyclic, high viscosity index	0-45
178603-66-2	Gas oils, petroleum, vacuum, hydrocracked, hydroisomerized, hydrogenated, C25-55, branched and cyclic, high viscosity index	0-45
Not Available	Mineral Oil	4-24
64742-52-5	Petroleum distillates, hydrotreated heavy naphthenic	0-26
68649-42-3	Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts	0.25-1.5

# **Section 4 - FIRST AID MEASURES**

#### Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if needed.

#### Skin

IF ON SKIN: Wash with plenty of soap and water. Get medical attention, if needed.

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#### **Eyes**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Get medical attention if needed.

#### Ingestion

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Do NOT induce vomiting.

# **Most Important Symptoms/Effects**

#### Acute

No information on significant adverse effects.

#### **Delayed**

No information on significant adverse effects.

#### Indication of any immediate medical attention and special treatment needed

Treat symptomatically and supportively. Treatment may vary with condition of victim and specifics of incident.

# **Section 5 - FIRE FIGHTING MEASURES**

#### **Extinguishing Media**

#### **Suitable Extinguishing Media**

Carbon dioxide, regular foam, dry chemical, water spray, or water fog. Water or foam may cause frothing.

#### **Unsuitable Extinguishing Media**

Do not use high pressure water streams.

# **Special Hazards Arising from the Chemical**

Negligible fire hazard. Avoid friction, static electricity, and sparks.

#### **Hazardous Combustion Products**

Burning may produce: Carbon monoxide, aldehydes, hydrogen sulfide, alkyl mercaptans, sulfides, oxides of sulfur, calcium and zinc and other unidentified organic compounds.

# **Fire Fighting Measures**

Move container from fire area if it can be done without risk. Cool containers with water spray until well after the fire is out. Stay away from the ends of tanks. Keep unnecessary people away, isolate hazard area and deny entry.

# **Special Protective Equipment and Precautions for Firefighters**

A positive-pressure, self-contained breathing apparatus (SCBA) and full-body protective equipment are required for fire emergencies.

# Section 6 - ACCIDENTAL RELEASE MEASURES

# Personal Precautions, Protective Equipment and Emergency Procedures

Wear personal protective clothing and equipment, see Section 8.

#### Methods and Materials for Containment and Cleaning Up

Remove all ignition sources. Do not touch or walk through spilled product. Stop leak if you can do it without risk. Wear protective equipment and provide engineering controls as specified in SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION. Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Ventilate area and avoid breathing vapor or mist. Contain spill away from surface water and sewers. Contain spill as a liquid for possible recovery, or sorb with compatible sorbent material and shovel with a clean, sparkproof tool into a sealable container for disposal. Additionally, for large spills: Dike far ahead of liquid spill for collection and later disposal.

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# **Section 7 - HANDLING AND STORAGE**

# **Precautions for Safe Handling**

Keep away from sparks or flame. Where flammable mixtures may be present, equipment safe for such locations should be used. Use clean tools. When transferring large volumes of product, metal containers, including trucks and tank cars, should be grounded and bonded. These products have a low vapor pressure and are not expected to present an inhalation hazard under normal temperatures and pressures. However, when aerosolizing, misting, or heating these products, do not breathe vapor or mist. Use in a well ventilated area. Avoid contact with: Skin, eyes, clothing, shoes. Wash thoroughly after handling. Do not eat, drink, or smoke when using this product.

#### Conditions for Safe Storage, Including any Incompatibilities

Keep container tightly closed when not in use and during transport. Store containers in a cool, dry place. Do not pressurize, cut, weld, braze, solder, drill, or grind containers. Keep containers away from flame, sparks, static electricity, or other sources of ignition. Empty product containers may retain product residue and can be dangerous.

#### **Incompatible Materials**

Acids, oxidizing materials, reactive halogens.

# Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

#### **Component Exposure Limits**

Canada, OSHA, NIOSH, and ACGIH have not developed exposure limits for any of this product's components.

#### ACGIH - Threshold Limit Values - Biological Exposure Indices (BEI)

There are no biological limit values for any of this product's components.

Provide general ventilation. Where adequate general ventilation is unavailable, use process enclosures, local exhaust ventilation, or other engineering controls.

# Individual Protection Measures, such as Personal Protective Equipment

**Eve/face protection** 

Wear safety glasses. Additional protection like goggles, face shields, or respirators may be needed dependent upon anticipated use and concentrations of mists or vapors. Eye wash fountain and emergency showers are recommended. Contact lens use is not recommended.

# **Respiratory Protection**

A respiratory protection program which meets USA's OSHA General Industry Standard 29 CFR 1910.134 or Canada's CSA Standard Z94.4-M1982 requirements must be followed whenever workplace conditions warrant a respirator's use. Consult a qualified Industrial Hygienist or Safety Professional for respirator selection guidance.

#### **Glove Recommendations**

Where skin contact is likely, wear chemical impervious protective gloves; use of natural rubber or equivalent gloves is not recommended. When products are heated and skin contact is likely, wear heat-resistant gloves, boots, and other protective clothing. To avoid prolonged or repeated contact where spills and splashes are likely, wear appropriate chemical-resistant faceshield, boots, apron, coveralls, long sleeve shirts, or other protective clothing.

#### **Protective Materials**

Personal protective equipment should be selected based upon the conditions under which this material is used. A hazard assessment of the work area for PPE requirements should be conducted by a qualified professional pursuant to regulatory requirements. The following PPE should be considered the minimum required: Safety glasses, gloves, and lab coat or apron.

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# **Section 9 - PHYSICAL AND CHEMICAL PROPERTIES**

AppearanceAmber liquid.Physical StateLiquidOdorPetroleum odor.ColorAmber

Odor Threshold Not available pH Not available

**Melting Point** Not available **Boiling Point** 246 °C (475 °F Minimum )

Boiling Point RangeNot availableFreezing pointNot availableEvaporation RateNot availableFlammability (solid, gas)Not available

**Autoignition Temperature**Not available **Flash Point**195 °C (383 °F Minimum )

Lower Explosive Limit Not available

Decomposition temperature

Not available

**Upper Explosive Limit** Not available **Vapor Pressure** <0.1 mmHg @ 68°F °C (20° C)

**Vapor Density (air=1)** Not available **Specific Gravity (water=1)** 0.88 (Approximate Water = 1)

Water Solubility (Insoluble ) Partition coefficient: n- Not available

octanol/water

Viscosity >20.5mm2/s @104°F Solubility (Other) Not available

Density

7.3 lb/gal (US
Approximate)

Pour Point
-18 °C (0 °F Maximum)

Negligible as per U.S

VOC EPA 40 CFR Molecular Weight Not available

51.100(s)

**OSHA Flammability** 

Class Not flammable

Other Property Information No information available.

# **Section 10 - STABILITY AND REACTIVITY**

#### Reactivity

No reactivity hazard is expected.

#### **Chemical Stability**

Stable under normal temperatures and pressures.

# **Possibility of Hazardous Reactions**

Will not polymerize.

#### **Conditions to Avoid**

Avoid sparks, flame, and other sources of ignition.

#### **Incompatible Materials**

Avoid oxidizing agents, reducing agents, and/or acids.

#### **Hazardous decomposition products**

None under normal temperatures and pressures.

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# Section 11 - TOXICOLOGICAL INFORMATION

# **Information on Likely Routes of Exposure**

#### Inhalation

No information on significant adverse effects.

#### **Skin Contact**

Prolonged or repeated exposure may cause skin dryness or cracking.

#### **Eve Contact**

No information on significant adverse effects.

#### **Ingestion**

May be harmful if swallowed.

#### **Acute and Chronic Toxicity**

# Component Analysis - LD50/LC50

The components of this material have been reviewed in various sources and the following selected endpoints are published:

#### Petroleum distillates, solvent-refined heavy paraffinic (64741-88-4)

Oral LD50 Rat >5000 mg/kg;Dermal LD50 Rabbit >2000 mg/kg;Inhalation LC50 Rat >5530 mg/m3 4 h (no deaths occurred)

#### Residual oils, petroleum, solvent-refined (64742-01-4)

Oral LD50 Rat >5000 mg/kg; Dermal LD50 Rabbit >2000 mg/kg; Inhalation LC50 Rat 2.18 mg/L 4 h

# Lubricating oils, petroleum, C>;25, hydrotreated bright stock-based (72623-83-7)

Oral LD50 Rat >5000 mg/kg

#### Residual oils (petroleum), solvent dewaxed (64742-62-7)

Oral LD50 Rat >5000 mg/kg; Dermal LD50 Rabbit >2000 mg/kg; Inhalation LC50 Rat 2.18 mg/L 4 h

#### Lubricating oils, petroleum, hydrotreated spent (64742-58-1)

Oral LD50 Rat >2000 mg/kg; Dermal LD50 Rabbit >4480 mg/kg

#### Lubricating oils, petroleum, C20-50, hydrotreated neutral oil-based (72623-87-1)

Oral LD50 Rat >5000 mg/kg;Dermal LD50 Rabbit >2000 mg/kg;Inhalation LC50 Rat 2.18 mg/L 4 h

#### Petroleum distillates, hydrotreated heavy naphthenic (64742-52-5)

Oral LD50 Rat >5000 mg/kg; Dermal LD50 Rabbit >2000 mg/kg

#### **Product Toxicity Data**

# **Acute Toxicity Estimate**

Dermal	> 2000 mg/kg
Oral	> 2000 mg/kg

#### **Immediate Effects**

No information on significant adverse effects.

#### **Delayed Effects**

No information on significant adverse effects.

# **Irritation/Corrosivity Data**

May cause slight skin and respiratory irritation.

#### **Respiratory Sensitization**

No information on significant adverse effects.

# **Dermal Sensitization**

No information for the product.

# **Component Carcinogenicity**

None of this product's components are listed by ACGIH, IARC, NTP, DFG or OSHA

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# **Germ Cell Mutagenicity**

No information available for the product.

# **Tumorigenic Data**

No information available for the product.

# **Reproductive Toxicity**

No data available for this product.

# **Specific Target Organ Toxicity - Single Exposure**

No information on significant adverse effects.

# **Specific Target Organ Toxicity - Repeated Exposure**

No target organs identified.

# **Aspiration hazard**

No data available.

# **Medical Conditions Aggravated by Exposure**

Individuals with pre-existing respiratory tract (nose, throat, and lungs), eye, and/or skin disorders may have increased susceptibility to the effects of exposure.

# **Section 12 - ECOLOGICAL INFORMATION**

# **Ecotoxicity**

Harmful to aquatic life with long lasting effects.

# **Component Analysis - Aquatic Toxicity**

Petroleum distillates, solvent-refined heavy paraffinic	64741-88-4
Fish:	LC50 96 h Oncorhynchus mykiss >5000 mg/L
Invertebrate:	EC50 48 h Daphnia magna >1000 mg/L IUCLID
Residual oils, petroleum, solvent-refined	64742-01-4
Fish:	LC50 96 h Oncorhynchus mykiss >5000 mg/L
Invertebrate:	EC50 48 h Daphnia magna >1000 mg/L IUCLID
Lubricating oils, petroleum, C>;25, hydrotreated bright stock-based	72623-83-7
Fish:	LC50 96 h Lepomis macrochirus >10000 mg/L
Residual oils (petroleum), solvent dewaxed	64742-62-7
Fish:	LC50 96 h Oncorhynchus mykiss >5000 mg/L
Invertebrate:	EC50 48 h Daphnia magna >1000 mg/L IUCLID
Lubricating oils, petroleum, hydrotreated spent	64742-58-1
Fish:	LC50 96 h Brachydanio rerio 79.6 mg/L [semi-static]; LC50 96 h Pimephales promelas 3.2 mg/L [semi-static]

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Lubricating oils, petroleum, C20-50, hydrotreated neutral oil-based	72623-87-1
Fish:	LC50 96 h Oncorhynchus mykiss >5000 mg/L
Invertebrate:	EC50 48 h Daphnia magna >1000 mg/L IUCLID
Petroleum distillates, hydrotreated heavy naphthenic	64742-52-5
Fish:	LC50 96 h Oncorhynchus mykiss >5000 mg/L
Invertebrate:	EC50 48 h Daphnia magna >1000 mg/L IUCLID
Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts	68649-42-3
Fish:	LC50 96 h Pimephales promelas 1 - 5 mg/L [static]; LC50 96 h Pimephales promelas 10 - 35 mg/L [semi-static]
Invertebrate:	EC50 48 h Daphnia magna 1 - 1.5 mg/L IUCLID

# **Persistence and Degradability**

No information available for the product.

# **Bioaccumulative Potential**

No information available for the product.

#### **Mobility**

No information available for the product.

# **Section 13 - DISPOSAL CONSIDERATIONS**

#### **Disposal Methods**

Dispose of contents/container in accordance with local/regional/national/international regulations.

Regulations may also apply to empty containers. The responsibility for proper waste disposal lies with the owner of the waste. Contact Safety-Kleen regarding proper recycling or disposal.

This product, if discarded, is not expected to be a characteristic or listed hazardous waste. If recycled in the USA, it can be managed in accordance with the used oil exemption under 40 CFR Part 279. Processing, use, or contamination by the user may change the waste code(s) applicable to the disposal of this product.

# **Section 14 - TRANSPORT INFORMATION**

# **US DOT Information:**

UN/NA #: Not regulated as a hazardous material.

**IATA Information:** 

UN#: Not regulated as a hazardous material.

**IMDG Information:** 

UN#: Not regulated as a hazardous material.

**TDG Information:** 

UN#: Not regulated as a hazardous material.

**International Bulk Chemical Code** 

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This material does not contain any chemicals required by the IBC Code to be identified as dangerous chemicals in bulk.

# **Section 15 - REGULATORY INFORMATION**

#### **U.S. Federal Regulations**

None of this products components are listed under SARA Sections 302/304 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), CERCLA (40 CFR 302.4), TSCA 12(b), or require an OSHA process safety plan.

# SARA Section 311/312 (40 CFR 370 Subparts B and C)

Acute Health: Yes Chronic Health: Yes Fire: No Pressure: No Reactivity: No

#### **Component Analysis - Inventory**

Petroleum distillates, solvent-refined heavy paraffinic (64741-88-4), Residual oils, petroleum, solventrefined (64742-01-4), Residual oils (petroleum), hydrotreated (64742-57-0), Lubricating oils, petroleum, C>:25, hydrotreated bright stock-based (72623-83-7), Residual oils (petroleum), solvent dewaxed (64742-62-7), Lubricating oils, petroleum, hydrotreated spent (64742-58-1), Lubricating oils, petroleum, C20-50, hydrotreated neutral oil-based (72623-87-1), Petroleum distillates, hydrotreated heavy naphthenic (64742-52-5), Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts (68649-42-3)

US	CA	EU	AU	РН	JP - ENCS	JP - ISHL	KR KECI - Annex 1		KR - REACH CCA	CN	NZ	MX	TW
Yes	DSL	EIN	Yes	Yes	No	No	Yes	No	No	Yes	Yes	Yes	Yes

Gas oils, petroleum, vacuum, hydrocracked, hydroisomerized, hydrogenated, C15-30, branched and cyclic, high viscosity index (178603-64-0)

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR KECI - Annex	KR KECI - Annex 2	KR - REACH CCA	CN	NZ	MX	TW
Yes	DSL	No	No	No	No	No	No	No	No	Yes	No	No	Yes

Gas oils, petroleum, vacuum, hydrocracked, hydroisomerized, hydrogenated, C20-40, branched and cyclic, high viscosity index (178603-65-1), Gas oils, petroleum, vacuum, hydrocracked, hydroisomerized, hydrogenated, C25-55, branched and cyclic, high viscosity index (178603-66-2)

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR KECI - Annex	KECI -	KR - REACH CCA	CN	NZ	MX	TW
Yes	DSL	No	No	No	No	No	No	No	No	Yes	No	No	Yes

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# **Section 16 - OTHER INFORMATION**

NFPA Ratings: Health: 1 Fire: 1 Reactivity: 0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

#### **Summary of Changes**

Revision to comply with WHMIS 2015.

Key / LegendACGIH - American Conference of Governmental Industrial Hygienists; ADR - European Road Transport; AU - Australia; BOD - Biochemical Oxygen Demand; C - Celsius; CA - Canada; CA/MA/MN/NJ/PA -California/Massachusetts/Minnesota/New Jersey/Pennsylvania\*; CAS - Chemical Abstracts Service; CFR - Code of Federal Regulations (US); CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CLP - Classification, Labelling, and Packaging; CN - China; CPR - Controlled Products Regulations; DFG -Deutsche Forschungsgemeinschaft; DOT - Department of Transportation; DSD - Dangerous Substance Directive; DSL - Domestic Substances List; EC - European Commission; EEC - European Economic Community; EIN -European Inventory of (Existing Commercial Chemical Substances): EINECS - European Inventory of Existing Commercial Chemical Substances; ENCS - Japan Existing and New Chemical Substance Inventory; EPA -Environmental Protection Agency; EU - European Union; F - Fahrenheit; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; ICAO - International Civil Aviation Organization; IDL -Ingredient Disclosure List; IDLH - Immediately Dangerous to Life and Health; IMDG - International Maritime Dangerous Goods; ISHL - Japan Industrial Safety and Health Law; IUCLID - International Uniform Chemical Information Database; JP - Japan; Kow - Octanol/water partition coefficient; KECI - Korea Existing Chemicals Inventory; KECL - Korea Existing Chemicals List; KR - Korea; LD50/LC50 - Lethal Dose/ Lethal Concentration; LEL - Lower Explosive Limit; LLV - Level Limit Value; LOLI - List Of LIsts™ - ChemADVISOR's Regulatory Database; MAK - Maximum Concentration Value in the Workplace; MEL - Maximum Exposure Limits; MX -Mexico; NDSL - Non-Domestic Substance List (Canada); NFPA - National Fire Protection Agency; NIOSH -National Institute for Occupational Safety and Health; NJTSR - New Jersey Trade Secret Registry; NTP - National Toxicology Program; NZ - New Zealand; OSHA - Occupational Safety and Health Administration; PEL-Permissible Exposure Limit; PH - Philippines; RCRA - Resource Conservation and Recovery Act; REACH-Registration, Evaluation, Authorisation, and restriction of Chemicals; RID - European Rail Transport; SARA -Superfund Amendments and Reauthorization Act; STEL - Short-term Exposure Limit; TCCA - Korea Toxic Chemicals Control Act; TDG - Transportation of Dangerous Goods; TLV - Threshold Limit Value; TSCA - Toxic Substances Control Act; TW - Taiwan; TWA - Time Weighted Average; UEL - Upper Explosive Limit; UN/NA -United Nations /North American; US - United States; VLE - Exposure Limit Value (Mexico); WHMIS - Workplace Hazardous Materials Information System (Canada). Other Information

Disclaimer: User assumes all risks incident to the use of this product. To the best of our knowledge, the information contained herein is accurate. However, Safety-Kleen assumes no liability whatsoever for the accuracy or completeness of the information contained herein. No representations or warranties, either expressed or implied, of merchantability, fitness for a particular purpose or of any other nature are made hereunder with respect to the information or the product to which the information refers. The data contained on this sheet apply to the product as supplied to the user.

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# California CARB Compliant

Flammable Aerosol Category 1

Gas Under Pressure: Compressed Gas

Aspiration Toxicity Category 1

Specific Target Organ Toxicity Single Exposure Category 3 (nervous system effects)

Note: This product is a consumer product and is labeled in accordance with the US Consumer Product Safety Commission regulations which take precedence over OSHA Hazard Communication labeling. The actual container label will not include the label elements below. The labeling below applies to industrial/professional products.



Extremely Flammable Aerosol.

Contains gas under pressure; may explode if heated.

May be fatal if swallowed and enters airways.

May cause drowsiness or dizziness.

Keep away from heat, sparks, open flames, hot surfaces. - No smoking.

Do not spray on an open flame or other ignition source.

Pressurized container: Do not pierce or burn, even after use.

Avoid breathing vapors or mists.

Use only outdoors or in a well-ventilated area.

IF SWALLOWED: Immediately call a POISON CENTER or physician. Do NOT induce vomiting. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or physician if you feel unwell.

Store locked up.

Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F. Store in a well-ventilated place.

Dispose of contents and container in accordance with local and national regulations.

LVP Aliphatic Hydrocarbon	64742-47-8	45-50%	Aspiration Toxicity Category 1
Petroleum Base Oil	64742-56-9 64742-65-0 64742-53-6 64742-54-7 64742-71-8	<35%	Not Hazardous
Aliphatic Hydrocarbon	64742-47-8	<25%	Flammable Liquid Category 3 Aspiration Toxicity Category 1 Specific Target Organ Toxicity Single Exposure Category 3 (nervous system effects)
Carbon Dioxide	124-38-9	2-3%	Simple Asphyxiant Gas Under Pressure, Compressed Gas

Note: The specific chemical identity and exact percentages are a trade secret.

Aspiration Hazard. DO NOT induce vomiting. Call physician, poison control center or the WD-40 Safety Hotline at 1-888-324-7596 immediately.

Flush thoroughly with water. Remove contact lenses if present after the first 5 minutes and continue flushing for several more minutes. Get medical attention if irritation persists.

ing for several more minutes. Get medical attention if irritation persists.

Wash with soap and water. If irritation develops and persists, get medical attention.

If irritation is experienced, move to fresh air. Get medical attention if irritation or other symptoms develop and persist.

Harmful or fatal if swallowed. Aspiration of liquid into the lungs during swallowing or vomiting may cause lung damage. May cause eye and respiratory irritation. Inhalation of mists or vapors may cause drowsiness, dizziness and other nervous system effects. Skin contact may cause drying of the skin.

Immediate medical attention is

needed for ingestion.

Use water fog, dry chemical, carbon dioxide or foam. Do not use water jet or flooding amounts of water. Burning product will float on the surface and spread fire.

Extremely flammable aerosol. Contents under pressure.

Keep away from ignition sources and open flames. Exposure of containers to extreme heat and flames can cause them to rupture often with violent force. Vapors are heavier than air and may travel along surfaces to remote ignition sources and flash back. Combustion will produce oxides of carbon and hydrocarbons.

Firefighters should always wear positive

pressure self-contained breathing apparatus and full protective clothing. Cool fire-exposed containers with water. Use shielding to protect against bursting containers.

Wear appropriate protective

clothing (see Section 8). Eliminate all sources of ignition and ventilate area.

Leaking cans should be placed in a plastic bag or open pail until the pressure has dissipated. Contain and collect liquid with an inert absorbent and place in a container for disposal. Clean spill area thoroughly. Report spills to authorities as required.

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Avoid contact with eyes. Avoid prolonged contact with skin. Avoid breathing vapors or aerosols. Use only with adequate ventilation. Keep away from heat, sparks, pilot lights, hot surfaces and open flames. Unplug electrical tools, motors and appliances before spraying or bringing the can near any source of electricity. Electricity can burn a hole in the can and cause contents to burst into flames. To avoid serious burn injury, do not let the can touch battery terminals, electrical connections on motors or appliances or any other source of electricity. Wash thoroughly with soap and water after handling. Keep containers closed when not in use. Keep out of the reach of children. Do not puncture, crush or incinerate containers, even when empty.

Store in a cool, well-ventilated area, away from incompatible materials. Do not store above 120°F or in direct sunlight. U.F.C (NFPA 30B) Level 3 Aerosol. Store away from oxidizers.

LVP Aliphatic Hydrocarbon	1200 mg/m3 TWA (manufacturer recommended)
Petroleum Base Oil	5 mg/m3 TWA (Inhalable) ACGIH TLV (as Mineral oil)
	5 mg/m3 TWA OSHA PEL (as Oil mist, mineral)
Aliphatic Hydrocarbon	1200 mg/m3 TWA (manufacturer recommended)
Carbon Dioxide	5000 ppm TWA, 30,000 ppm STEL ACGIH TLV
	5000 ppm TWA OSHA PEL

#### Use in a well-ventilated area.

Avoid eye contact. Always spray away from your face.

Avoid prolonged skin contact. Chemical resistant gloves recommended for operations where skin contact is likely.

None needed for normal use with adequate ventilation.

Use adequate general and local exhaust ventilation to maintain exposure levels below that occupational exposure limits.

Safety goggles recommended where eye contact is possible. Wear chemical resistant gloves.

None required if ventilation is adequate. If the occupational exposure limits are exceeded, wear a NIOSH approved respirator. Respirator selection and use should be based on contaminant type, form and concentration. Follow OSHA 1910.134, ANSI Z88.2 and good Industrial Hygiene practice.

Wash with soap and water after handling.

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Appearance:	Light green to amber	Flammable Limits:	LEL: 0.6% UEL: 8%
	liquid	(Solvent Portion)	
Odor:	Mild petroleum odor	Vapor Pressure:	95-115 PSI @ 70°F
Odor Threshold:	Not established	Vapor Density:	Greater than 1 (air=1)
pH:	Not Applicable	Relative Density:	0.8 – 0.82 @ 60°F
Melting/Freezing Point:	Not established	Solubilities:	Insoluble in water
Boiling Point/Range:	361 - 369°F (183 -	Partition Coefficient; n-	Not established
	187°C)	octanol/water:	
Flash Point:	138°F (59°C) Tag Closed	Autoignition	Not established
	Cup (liquid)	Temperature:	
Evaporation Rate:	Not established	Decomposition	Not established
		Temperature:	
Flammability (solid, gas):	Flammable Aerosol	Viscosity:	2.79-2.96 cSt @ 100°F
VOC:	24.1%	Pour Point:	-63°C (-81.4°F) ASTM

MIR=0.43gO3/gVOC D-97
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Not reactive under normal conditions

Stable

May react with strong oxidizers generating heat.

Avoid heat, sparks, flames and other sources of ignition. Do not puncture or incinerate

containers.

Strong oxidizing agents.

Carbon monoxide and carbon dioxide.

High concentrations may cause nasal and respiratory irritation and central nervous system effects such as headache, dizziness and nausea. Intentional abuse may be harmful or fatal.

Prolonged and/or repeated contact may produce mild irritation and defatting with possible dermatitis.

Contact may be irritating to eyes. May cause redness and tearing.

This product has low oral toxicity. Swallowing may cause gastrointestinal irritation, nausea, vomiting and diarrhea. This product is an aspiration hazard. If swallowed, can enter the lungs and may cause chemical pneumonitis, severe lung damage and death.

None expected.

None of the components are listed as a carcinogen or suspect carcinogen by IARC, NTP, ACGIH or OSHA.

: None of the components is considered a reproductive hazard.

Acute Toxicity Estimates: Oral > 5,000 mg/kg; Dermal >2,000 mg/kg based on an assessment of the ingredients. This product is not classified as toxic by established criteria. It is an aspiration hazard.

No specific aquatic toxicity data is currently available; however components of this product are not expected to be harmful to aquatic organisms

Components are readily biodegradable.

Bioaccumulation is not expected based on an assessment of the ingredients.

No data available

None known

If this product becomes a waste, it would be expected to meet the criteria of a RCRA ignitable hazardous waste (D001). However, it is the responsibility of the generator to determine at the time of disposal the proper classification and method of disposal. Do not puncture or incinerate containers, even empty. Dispose in accordance with federal, state, and local regulations.

DOT Surface Shipping Description: UN1950, Aerosols, 2.1 Ltd. Qty

(Note: Shipping Papers are not required for Limited Quantities unless transported by air or vessel – each package must be marked with the Limited Quantity Mark)

IMDG Shipping Description: UN1950, Aerosols, 2.1, LTD QTY ICAO Shipping Description: UN1950, Aerosols, flammable, 2.1

NOTE: WD-40 Company does not test aerosol cans to assure that they meet the pressure and other requirements for transport by air. We do not recommend that our aerosol products be transported by air.

This product is not subject to CERCLA reporting requirements, however, oil spills are reportable to the National Response Center under the Clean Water Act and many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations.

Refer to Section 2 for the OSHA Hazard Classification.
This product contains the following chemicals subject to SARA Title III

Section 313 Reporting requirements: None

None

All of the components of this product are listed on the

TSCA inventory.

This product does not

require a California Proposition 65 warning.

This product complies with the consumer product VOC limits of CARB, the US EPA and states adopting the OTC VOC rules.

All of the ingredients are listed on the Canadian Domestic

Substances List or exempt from notification

Revision Date: August 2, 2021 Supersedes: March 5, 2019

Revision Summary: Section 9: Appearance

Prepared by: Industrial Health & Safety Consultants, Inc. Shelton, CT, USA

Reviewed by: I. Kowalski Regulatory Affairs Dept.

1012200/No.0084706







WD-40 Specialist® Dirt & Dust

Resistant Dry Lube

Cleaner, Lubricant

None identified

October 25, 2019

WD-40 Products [Canada] Ltd. P.O. Box 220 Toronto, Ontario M9C 4V3

(416) 622-9881

\_ Canutec: (613) 996-

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Designated for use only in the event of chemical emergencies involving a spill, leak, fire exposure or accident involving chemicals

Flammable Aerosol Category 1

Gas Under Pressure: Compressed Gas

Aspiration Toxicity Category 1

Skin Irritant Category 2

Specific Target Organ Toxicity Single Exposure Category 3 (nervous system effects)

Note: This product is a consumer product and is labeled in accordance with the Consumer Chemicals and Containers Regulations (CCCR) which take precedence over WHMIS 2015 labeling. The actual container label will not include the label elements below. The labeling below applies to industrial/professional products.



!

Extremely Flammable Aerosol.

Contains gas under pressure; may explode if heated.

May be fatal if swallowed and enters airways.

Causes skin irritation.

May cause drowsiness or dizziness.

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source.

Do not pierce or burn, even after use.

Wash thoroughly after handling.

Avoid breathing vapors or mists.

Use only outdoors or in a well-ventilated area.

Wear protective gloves.

IF SWALLOWED: Immediately call a POISON CENTER or physician. Do NOT induce vomiting. IF ON SKIN: Wash with plenty of water. If skin irritation occurs: Get medical attention. Take off contaminated clothing and wash it before reuse.

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or physician if you feel unwell.

Store locked up.

Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F. Store in a well-ventilated place.

Dispose of contents and container in accordance with local and national regulations.

Heptane	64742-49-0	70-80%	Aspiration Toxicity Category 1
·	142-82-5		Flammable Liquid Category 2
			Skin Irritant Category 2
			Specific Target Organ Toxicity
			Single Exposure Category 3
			(nervous system effects)
Propane Propellant	74-98-6	10-20%	Flammable Gas Category 1
			Gas Under Pressure, Compressed
			Gas
Petroleum Solvent	64741-66-8	5-10%	Flammable Liquid, Category 2
	64742-47-8		Aspiration Toxicity Category 1
Mineral Oil	Proprietary	1-5%	Not Hazardous

Aspiration Hazard. DO NOT induce vomiting. Call physician, poison control center or the WD-40 Safety Hotline at 1-888-324-7596 immediately.

Flush thoroughly with water. Remove contact lenses if present after the first 5 minutes and continue flushing for several more minutes. Get medical attention if irritation persists.

Wash with soap and water. If irritation develops and persists, get medical attention.

If irritation is experienced, move to fresh air. Get medical attention if irritation or other symptoms develop and persist.

Harmful or fatal if swallowed. If swallowed, may be aspirated and cause lung damage. May cause eye and respiratory irritation. Inhalation may cause coughing, headache and dizziness. Skin contact may cause drying of the skin.

Immediate medical attention is

needed for ingestion.

Use water fog, dry chemical, carbon dioxide or foam. Do not use water jet or flooding amounts of water. Burning product will float on the surface and spread fire.

Contents under pressure, Extremely flammable aerosol.

Keep away from ignition sources and open flames. Exposure of containers to extreme heat and flames can cause them to rupture often with violent force. Vapors can cause a flash fire. Vapors are heavier than air and may travel along surfaces to remote ignition sources and flash back. Combustion will produce oxides of carbon, smoke fumes, unburned hydrocarbons and small amounts of hydrogen fluoride and carbonyl fluoride. A vapor and air mixture can create an explosion hazard in confined spaces.

Firefighters should always wear positive pressure self-contained breathing apparatus and full protective clothing. Cool fire-exposed containers with water. Use shielding to protect against bursting containers.

Wear appropriate protective clothing (see Section 8). Eliminate all sources of ignition and ventilate area.

Leaking cans should be placed in a plastic bag or open pail until the pressure has dissipated. Contain and collect liquid with an inert absorbent and place in a container for disposal. Clean spill area thoroughly. Report spills to authorities as required.

Avoid contact with eyes. Avoid prolonged contact with skin. Avoid breathing vapors or aerosols. Use only with adequate ventilation. Keep away from heat, sparks, pilot lights, hot surfaces and open flames. Unplug electrical tools, motors and appliances before spraying or bringing the can near any source of electricity. Electricity can burn a hole in the can and cause contents to burst into flames. To avoid serious burn injury, do not let the can touch battery terminals, electrical connections on motors or appliances or any other source of electricity. Wash thoroughly with soap and water after handling. Keep containers closed when not in use. Keep out of the reach of children. Do not puncture, crush or incinerate containers, even when empty. Intentional misuse by deliberately concentrating vapors and inhaling can be harmful or fatal.

Store in a cool, well-ventilated area, away from incompatible materials Do not store above 120°F or in direct sunlight. U.F.C (NFPA 30B) Level 3 Aerosol. Store away from oxidizers.

Heptane	400 ppm TWA, 500 ppm STEL ACGIH TLV			
	400 ppm TWA, 500 ppm STEL Canada-Ontario			
	400 ppm TWA, 500 ppm STEL Canada- Québec			
	400 ppm TWA, 500 ppm STEL British Columbia			
Propane Propellant	1000 ppm TWA Canada-Ontario (as Hydrocarbons, aliphatic (gaseous) C1-			
	C4)			
	1000 ppm TWA Canada-Québec			
	1000 ppm TWA British Columbia			
Petroleum Solvent	1400 mg/m3 TWA Supplier Recommended (total hydrocarbon)			
Mineral Oil	5 mg/m3 (inhalable) TWA ACGIH TLV (as mineral oil)			
	5 mg/m3 TWA, 10 mg/m3 STEL Canada-Ontario (as oil mist, mineral)			
	5 mg/m3 TWA, 10 mg/m3 STEL Canada-Québec (as oil mist, mineral)			
	1 mg/m3 TWA British Columbia (as Oil mist-mineral, severely refined)			

Use in a well-ventilated area.

Avoid eye contact. Always spray away from your face.

Avoid prolonged skin contact. Chemical resistant gloves recommended for operations where skin contact is likely.

None needed for normal use with adequate ventilation.

Use adequate general and local exhaust ventilation to maintain exposure levels below that occupational exposure limits.

Safety goggles recommended where eye contact is possible.

Wear chemical resistant gloves.

None required if ventilation is adequate. If the occupational exposure limits are exceeded, wear a NIOSH approved respirator. Respirator selection and use should be based on contaminant type, form and concentration. Follow applicable regulations and good Industrial Hygiene practice.

Wash with soap and water after handling.

Appearance:	Clear liquid	Flammable Limits:	LEL: 0.9% UEL: 9.5%
Odor:	Pleasant odor	Vapor Pressure:	40-50 psi @ 70°F

Odor Threshold:	Not established	Vapor Density:	Greater than 1 (air=1)
pH:	Not Applicable	Relative Density:	0.72
Melting/Freezing Point:	Not established	Solubilities:	Insoluble in water
Boiling Point/Range:	90-140°C (194-284°F)	Partition Coefficient; n-octanol/water:	Not established
Flash Point:	<-29.2°F Tag Closed Cup	Autoignition Temperature:	Not established
Evaporation Rate:	Not established	Decomposition Temperature:	Not established
Flammability (solid, gas):	Flammable Aerosol	Viscosity:	Not established
VOC:	93.2%	Pour Point:	Not established

Not reactive under normal conditions

Stable

May react with strong oxidizers generating heat.

Avoid heat, sparks, flames and other sources of ignition. Do not puncture or incinerate

containers.

Strong oxidizing agents.

Carbon monoxide and carbon dioxide, smoke fumes, unburned hydrocarbons and small amounts of hydrogen fluoride and carbonyl fluoride.

Mist or vapor can irritate the throat and lungs. High concentrations may cause nasal and respiratory irritation and central nervous system effects such as headache, dizziness and nausea. Intentional abuse may be harmful or fatal.

May cause skin irritation with short-term exposure with redness, itching and burning of the skin. Prolonged and/or repeated contact may produce defatting and possible dermatitis.

Contact may be irritating to eyes. May cause redness, stinging, swelling and tearing.

This product has low oral toxicity. If swallowed, this material may cause irritation of the mouth, throat and esophagus. Swallowing may cause gastrointestinal irritation, nausea, vomiting, diarrhea, dizziness, drowsiness and other central nervous system effects. This product is an aspiration hazard. If swallowed, can enter the lungs and may cause chemical pneumonitis, severe lung damage and death.

Prolonged or repeated skin contact may defeat the skin resulting in irritation and dermatitis. None of the components are listed as a carcinogen or suspect carcinogen by IARC,

NTP, ACGIH or OSHA.

None of the components is considered a reproductive hazard.

The oral toxicity of this product is estimated to be greater than 2,000 mg/kg and the dermal toxicity greater than 2,000 mg/kg based on an assessment of the ingredients. This product is not classified as toxic by established criteria. It is an aspiration hazard.

Heptane: 24 hr LC50 Goldfish – 4 mg/L; 24 hr EC50 Daphnia magna – >10 mg/L Petroleum Solvent: No ecotoxicity data available. Ingredient is expected to be toxic to the aquatic environment with long-term adverse effects.

Components are not readily biodegradable.

Bioaccumulation is not expected based on an assessment of the ingredients.

No data available

None known

Aerosol containers should not be punctured, compacted in home trash compactors or incinerated. Empty containers may be disposed of through normal waste management options. Dispose of all waste product, absorbents, and other materials in accordance with applicable Federal, state and local regulations.

DOT Surface Shipping Description: UN1950, Aerosols, 2.1 Ltd. Qty

(Note: Shipping Papers are not required for Limited Quantities unless transported by air or vessel – each

package must be marked with the Limited Quantity Mark)

Canadian TDG Classification: Limited Quantity

IMDG Shipping Description: UN1950, Aerosols, 2.1, LTD QTY ICAO Shipping Description: UN1950, Aerosols, flammable, 2.1

\*Note: Inner packages with less than 5 liters of liquid/ 5 kg of solid are exempt from Marine Pollutant per IMDG Code 2.10.2.7 and ICAO Special Provision A197.

NOTE: WD-40 Company does not test aerosol cans to assure that they meet the pressure and other requirements for transport by air. We do not recommend that our aerosol products be transported by air.

This product contains the following chemicals that are listed on the NPRI Substance List: Heptane (all isomers) 70-80%, Propane (74-98-6) 10-20%, Petroleum Solvent (64742-47-8) 5-10%

All of the ingredients are listed on the Canadian Domestic Substances List or exempt from notification.

Revision Date: October 25, 2019 Supersedes: September 21, 2016

Prepared by: Industrial Health & Safety Consultants, Inc. Shelton, CT, USA

Reviewed by: I. Kowalski Regulatory Affairs Department

1015200/No.0086404

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SuperClean Brands, Inc. 51 East Maryland Avenue St. Paul, MN 55117-4615

(651) 489-8211

(651) 489-8247

1-800-535-5053

June 26, 2009

Windshield Washer	Fluid	Used for cleaning windshields
Windshield W	asher Fluid	

Hazardous Component*	Approximate Composition	OSHA Permissible Exposure Limit**	NIOSH REL	ACGIH Threshold Limit Value	IDLH (NIOSH)
Methanol (Methyl Alcohol) -CAS 67-56-1 -UN 1230 (DOT Guide 28)	<1 percent by weight	200 ppm (260 mg/m³) 8-Hour TWA (Skin)	200 ppm (260 mg/m <sup>3</sup> ) 8-Hour TWA 250 ppm (310 mg/m <sup>3</sup> ) Ceiling (Skin)	200 ppm (260 mg/m <sup>3</sup> ) 8-Hour TWA 250 ppm (310 mg/m <sup>3</sup> ) Short-term Exposure Limit (15-minute TWA) (Skin)	6,000 ppm (0.6 percent in air)

<sup>\*</sup> The hazardous component listed is not a known or suspected human carcinogen as listed or determined by the National Agency for Research on Cancer, National Toxicological Program "NTP Seventh Annual Report on Carcinogens," or International Agency for Research on Cancer (IARC) monograph reviews. In addition, it is not considered a carcinogen by the Occupational Safety and Health Administration or the National Institute for Occupational Safety and Health.

<sup>\*\*</sup> This MSDS contains the 1989 PEL's and from the June 1993 Air Contaminants Final Rule, specified in Tables Z-1, Z-2, and Z-3 [Federal Register; 58(124):35338-35351; June 30, 1993].

Approximately 200°F (for product)

200F

Soluble

20mm @ 90° (methanol)

1.11 (methanol)

10.84 cV (methanol)

+32°F

The windshield washer is blue, and it has a mild characteristic pungent odor from the methanol. The odor threshold for methanol is 10 ppm.

<u>UEL</u> - 36 percent for methanol <u>LEL</u> - 6 percent for methanol

878°F for methanol

Small Fires: Dry chemical, carbon dioxide, water spray or alcohol resistant foam.

<u>Large Fires</u>: Water spray, fog or alcohol-resistant foam.

Move container away from fire area if you can do so without risk. Dike fire control water for later disposal; do not scatter the material. Apply cooling water to the sides of containers exposed to flames until well after the fire is out.

Flammable/combustible material; may be ignited by heat, spark or flame. Vapors may travel to a source of ignition and flash back. Container may explode in heat of fire. Vapor explosion and poison hazard indoors, outdoors, or in sewers. Runoff to sewer may create fire or explosion hazard.

In a closed container, methyl alcohol is stable at room temperature and it is stable under routine handling and storage. Hazardous polymerization will not occur.

Incompatible with beryllium dihydride; metals; oxidants; potassium tert-butoxide; carbon tetrachloride + metals; dichloromethane. Can react vigorously with oxidizing materials.

Explosive reaction with chloroform + sodium methoxide; diethyl zinc. Violent reaction with alkyl aluminum salts; acetyle bromide; chloroform + sodium hydroxide;  $CrO_3$ ; cyanuric chloride; (I + ethanol + HgO);  $P_2O_3$ ;  $(KOH + CHCl_2)$ ; nitric acid.<sup>1</sup>

When methanol is heated to decomposition, carbon dioxide and carbon monoxide may be produced, as well as formaldehyde may be produced, and it emits acrid smoke and irritating fumes.

<sup>1</sup>Lewis, Richard J., Sr.: Sax's Dangerous Properties of Industrial Materials, Eighth Edition. New York, New York: Van Nostrand Reinhold, 1992.

The primary routes of entry are inhalation, ingestion, and absorption.

Irritant to eyes, skin, and upper respiratory system. Headaches, drowsiness, dizziness, vertigo, light-headed, nausea, and vomiting. Visual disturbance, optic nerve damage, and blindness. Skin exposure hazard.

Central nervous system, digestive tract, eyes, and skin.

Eye irritation. Inhalation can result nose irritation, headache, fatigue, nausea, visual impairment or complete and possible blindness, acidosis, convulsions, circulatory collapse, respiratory fatigue, and death. Ingestion can cause gastrointestinal (GI) irritation followed by the symptoms described for inhalation and possible kidney impairment. Skin contact results in a cold sensation, dryness, and cracking, possibly leading to dermatitis. Methyl alcohol may be absorbed through the skin and may cause headache, fatigue, and visual disturbances. Eye contact results in irritation with lacrimation, inflamed lids, and photophobia.

Chronic exposure may result in visual impairment or blindness.

Ocular, respiratory, or dermal disorders may be

aggravated by methanol exposure.

Eyes: Rinse with water 15 to 20 minutes, seek medical assistance.

Skin: Flush with water for 15 minutes.

Inhalation: Remove from source to fresh air, provide respiratory support as needed.

Ingestion: Call Physician, hospital emergency room or Poison Control Center immediately.

- Keep unnecessary people away; isolate hazard area and deny entry.
- Stay upwind; keep out of low areas.
- Shut off ignition sources; no flares, smoking or flames in hazard area.
- Positive pressure self-contained breathing apparatus and chemical protective clothing is recommended for personnel involved in clean-up procedures with no fire.
- Do not walk through spilled material: stop leak if it can be done without risk.
- Water spray may reduce vapor; but it will not prevent ignition in closed spaces.

Dispose of in accordance with federal, state and local regulations.

Under normal use conditions (outdoor windshield cleaning), respiratory protection is not

justified.

Splash goggles are recommended when handling the solution. Contact lens use is not recommended.

The selection of protective clothing and gloves is dependent upon anticipated exposure. As reported by the manufacturer, Best Glove style 725R (PVC) offers excellent protection for up to 240 minutes of complete immersion.

The Occupational Safety and Health Administration's Permissible Exposure Limit, which is defined as the maximum concentration of contaminant to which a normal healthy individual may be exposed 8-hours per day, 40-hours per week, without experiencing adverse health effects over a working lifetime.

American Conference of Governmental Industrial Hygienist's Threshold Limit Value, similar to the OSHA PEL but not considered a legal standard.

# Not Regulated

Maxim Technologies, Inc.

Judgements as to the suitability herein for the user's purposes are necessarily the user's responsibility. Therefore, although reasonable care has been taken in the preparation of such information, Maxim Technologies, Inc., extends no warranties, makes no representations, and assumes no responsibility as to the accuracy or suitability of such information for application to the intended purposes or for the consequences of its use.

MSDS Splash +32°F Windshield Wash

SuperClean Brands, Inc. 51 East Maryland Avenue St. Paul, MN 55117-4615

(651) 489-8211

(651) 489-8247

1-800-535-5053

Used for cleaning windshields

Windshield Washer Fluid


Hazardous Component*	Approximate Composition	OSHA Permissible Exposure Limit**	NIOSH REL	ACGIH Threshold Limit Value	IDLH (NIOSH)
Methanol (Methyl Alcohol) -CAS 67-56-1 -UN 1230 (DOT Guide 28	< 10 by weight	200 ppm (260 mg/m³) 8-Hour TWA (Skin)	200 ppm (260 mg/m <sup>3</sup> ) 8-Hour TWA 250 ppm (310 mg/m <sup>3</sup> ) Ceiling (Skin)	200 ppm (260 mg/m³) 8-Hour TWA 250 ppm (310 mg/m³) Short-term Exposure Limit (15-minute TWA) (Skin)	6,000 ppm (0.6 percent in air)

<sup>\*</sup> The hazardous component listed is not a known or suspected human carcinogen as listed or determined by the National Agency for Research on Cancer, National Toxicological Program "NTP Seventh Annual Report on Carcinogens," or International Agency for Research on Cancer (IARC) monograph reviews. In addition, it is not considered a carcinogen by the Occupational Safety and Health Administration or the National Institute for Occupational Safety and Health.

<sup>\*\*</sup> This MSDS contains the 1989 PEL's and from the June 1993 Air Contaminants Final Rule, specified in Tables Z-1, Z-2, and Z-3 [Federal Register; 58(124):35338-35351; June 30, 1993].

Approximately 200°F (for product) Soluble

150°F

1.11 (methanol)

100mm @ 21.2°F (methanol)

+22°F

10.84 cV (methanol)

The windshield washer is blue, and it has a mild characteristic pungent odor from the methanol. The odor threshold for methanol is 10 ppm.

<u>UEL</u> - 36 percent for methanol <u>LEL</u> - 6 percent for methanol

878°F for methanol

Small Fires: Dry chemical, carbon dioxide, water spray or alcohol resistant foam.

Large Fires: Water spray, fog or alcohol-resistant foam.

Move container away from fire area if you can do so without risk. Dike fire control water for later disposal; do not scatter the material. Apply cooling water to the sides of containers exposed to flames until well after the fire is out.

Flammable/combustible material; may be ignited by heat, spark or flame. Vapors may travel to a source of ignition and flash back. Container may explode in heat of fire. Vapor explosion and poison hazard indoors, outdoors, or in sewers. Runoff to sewer may create fire or explosion hazard.

In a closed container, methyl alcohol is stable at room temperature and it is stable under routine handling and storage. Hazardous polymerization will not occur.

Incompatible with beryllium dihydride; metals; oxidants; potassium tertbutoxide; carbon tetrachloride + metals; dichloromethane. Can react vigorously with oxidizing materials.

Explosive reaction with chloroform + sodium methoxide; diethyl zinc. Violent reaction with alkyl aluminum salts; acetyle bromide; chloroform + sodium hydroxide; CrO<sub>3</sub>; cyanuric chloride; (I + ethanol + HgO); Pb(ClO<sub>4</sub>)<sub>2</sub>; HClO<sub>4</sub>; P<sub>2</sub>O<sub>3</sub>; (KOH + CHCl<sub>2</sub>); nitric acid.<sup>1</sup>

When methanol is heated to decomposition, carbon dioxide and carbon monoxide may be produced, as well as formaldehyde may be produced, and it emits acrid smoke and irritating fumes.

<sup>1</sup>Lewis, Richard J., Sr.: *Sax's Dangerous Properties of Industrial Materials, Eighth Edition.* New York, New York: Van Nostrand Reinhold, 1992.

The primary routes of entry are inhalation, ingestion, and absorption.

Irritant to eyes, skin, and upper respiratory system. Headaches, drowsiness, dizziness, vertigo, light-headed, nausea, and vomiting. Visual disturbance, optic nerve damage, and blindness. Skin exposure hazard.

Central nervous system, digestive tract, eyes, and skin.

Eye irritation. Inhalation can result nose irritation, headache, fatigue, nausea, visual impairment or complete and possible blindness, acidosis, convulsions, circulatory collapse, respiratory fatigue, and death. Ingestion can cause gastrointestinal (GI) irritation followed by the symptoms described for inhalation and possible kidney impairment. Skin contact results in a cold sensation, dryness, and cracking, possibly leading to dermatitis. Methyl alcohol may be absorbed through the skin and may cause headache, fatigue, and visual disturbances. Eye contact results in irritation with lacrimation, inflamed lids, and photophobia.

Chronic exposure may result in visual impairment or blindness.

Ocular, respiratory, or dermal disorders may be

aggravated by methanol exposure.

Eyes: Rinse with water 15 to 20 minutes, seek medical assistance.

Skin: Flush with water for 15 minutes.

Inhalation: Remove from source to fresh air, provide respiratory support as needed.

Ingestion: Call Physician, hospital emergency room or Poison Control Center immediately.

- Keep unnecessary people away; isolate hazard area and deny entry.
- Stay upwind; keep out of low areas.
- Shut off ignition sources; no flares, smoking or flames in hazard area.
- Positive pressure self-contained breathing apparatus and chemical protective clothing is recommended for personnel involved in clean-up procedures with no fire.
- Do not walk through spilled material; stop leak if it can be done without risk.
- Water spray may reduce vapor; but it will not prevent ignition in closed spaces.

Dispose of in accordance with federal, state and local regulations.

RCRA Hazardous Waste (40 CFR 261.33): Hazardous Waste No. U154 CERCLA Hazardous Substance (40 CFR 302.4): Not Listed SARA Extremely Hazardous Substance (40 CFR 355): Not Listed SARA Toxic Chemical (40 CFR 372.65): Not Listed

Under normal use conditions (outdoor windshield cleaning), respiratory protection is not

justified.

Splash goggles are recommended when handling the solution. Contact lens use is not

recommended.

The selection of protective clothing and gloves is dependent upon anticipated exposure. As reported by the manufacturer, Best Glove style 725R (PVC) offers excellent protection for up to 240 minutes of complete immersion.

The Occupational Safety and Health Administration's Permissible Exposure Limit, which is defined as the maximum concentration of contaminant to which a normal healthy individual may be exposed 8-hours per day, 40-hours per week, without experiencing adverse health effects over a working lifetime.

American Conference of Governmental Industrial Hygienist's Threshold Limit Value, similar to the OSHA PEL but not considered a legal standard.

In Inner Packaging not over 5 I (1.3 gallons) CONSUMER COMMODITY, ORM-D Per 49 CFR 173.150 (b) (3) & 173.150 (c)

Maxim Technologies, Inc.

Judgements as to the suitability herein for the user's purposes are necessarily the user's responsibility. Therefore, although reasonable care has been taken in the preparation of such information, Maxim Technologies, Inc., extends no warranties, makes no representations, and assumes no responsibility as to the accuracy or suitability of such information for application to the intended purposes or for the consequences of its use.

SuperClean Brands, Inc. 51 East Maryland Avenue St. Paul, MN 55117-4615

(651) 489-8211

(651) 489-8247

1-800-535-5053

April 7, 2009

Windshield Washer Fluid

Used for cleaning windshields

Windshield Washer Fluid

Hazardous Component*	Approximate Composition	OSHA Permissible Exposure Limit**	NIOSH REL	ACGIH Threshold Limit Value	IDLH (NIOSH)
Methanol (Methyl Alcohol) -CAS 67-56-1 -UN 1230 (DOT Guide 28)	31 percent by weight	200 ppm (260 mg/m <sup>3</sup> ) 8-Hour TWA (Skin)	200 ppm (260 mg/m³) 8-Hour TWA 250 ppm (310 mg/m³) Ceiling (Skin)	200 ppm (260 mg/m³) 8-Hour TWA 250 ppm (310 mg/m³) Short-term Exposure Limit (15-minute TWA) (Skin)	6,000 ppm (0.6 percent in air)

<sup>\*</sup> The hazardous component listed is not a known or suspected human carcinogen as listed or determined by the National Agency for Research on Cancer, National Toxicological Program "NTP Seventh Annual Report on Carcinogens," or International Agency for Research on Cancer (IARC) monograph reviews. In addition, it is not considered a carcinogen by the Occupational Safety and Health Administration or the National Institute for Occupational Safety and Health.

<sup>\*\*</sup> This MSDS contains the 1989 PEL's and from the June 1993 Air Contaminants Final Rule, specified in Tables Z-1, Z-2, and Z-3 [Federal Register; 58(124): 35338-35351; June 30, 1993].

Approximately 170°F (for product)

93∘F

Soluble

100 (mm Mercury) @ 21.2°F

1.11 (methanol)

10.84 cV (methanol)

-20°F

The windshield washer is blue, and it has a mild characteristic pungent odor from the methanol. The odor threshold for methanol is 10 ppm.

<u>UEL</u> - 36 percent for methanol <u>LEL</u> - 6 percent for methanol

878°F for methanol

Small Fires: Dry chemical, carbon dioxide, water spray or alcohol resistant foam.

Large Fires: Water spray, fog or alcohol-resistant foam.

Move container away from fire area if you can do so without risk. Dike fire control water for later disposal; do not scatter the material. Apply cooling water to the sides of containers exposed to flames until well after the fire is out.

Flammable/combustible material; may be ignited by heat, spark or flame. Vapors may travel to a source of ignition and flash back. Container may explode in heat of fire. Vapor explosion and poison hazard indoors, outdoors, or in sewers. Runoff to sewer may create fire or explosion hazard.

In a closed container, methyl alcohol is stable at room temperature and it is stable under routine handling and storage. Hazardous polymerization will not occur.

Incompatible with beryllium dihydride; metals; oxidants; potassium tert-butoxide; carbon tetrachloride + metals; dichloromethane. Can react vigorously with oxidizing materials.

Explosive reaction with chloroform + sodium methoxide; diethyl zinc. Violent reaction with alkyl aluminum salts; acetyle bromide; chloroform + sodium hydroxide;  $CrO_3$ ; cyanuric chloride; (I + ethanol + HgO);  $P_0(CIO_4)_2$ ;  $P_1O_3$ ;  $P_2O_3$ 

When methanol is heated to decomposition, carbon dioxide and carbon monoxide may be produced, as well as formaldehyde may be produced, and it emits acrid smoke and irritating fumes.

<sup>1</sup>Lewis, Richard J., Sr.: Sax's Dangerous Properties of Industrial Materials, Eighth Edition. New York, New York: Van Nostrand Reinhold, 1992.

The primary routes of entry are inhalation, ingestion, and absorption.

Irritant to eyes, skin, and upper respiratory system. Headaches, drowsiness, dizziness, vertigo, light-headed, nausea, and vomiting. Visual disturbance, optic nerve damage, and blindness. Skin exposure hazard.

Central nervous system, digestive tract, eyes, and skin.

Eye irritation. Inhalation can result nose irritation, headache, fatigue, nausea, visual impairment or complete and possible blindness, acidosis, convulsions, circulatory collapse, respiratory fatigue, and death. Ingestion can cause gastrointestinal (GI) irritation followed by the symptoms described for inhalation and possible kidney impairment. Skin contact results in a cold sensation, dryness, and cracking, possibly leading to dermatitis. Methyl alcohol may be absorbed through the skin and may cause headache, fatigue, and visual disturbances. Eye contact results in irritation with lacrimation, inflamed lids, and photophobia.

Chronic exposure may result in visual impairment or blindness.

Ocular, respiratory, or dermal disorders may be

aggravated by methanol exposure.

Eyes: Rinse with water 15 to 20 minutes, seek medical assistance.

Skin: Flush with water for 15 minutes.

Inhalation: Remove from source to fresh air, provide respiratory support as needed.

Ingestion: Call Physician, hospital emergency room or Poison Control Center immediately.

- Keep unnecessary people away; isolate hazard area and deny entry.
- Stay upwind; keep out of low areas.
- Shut off ignition sources; no flares, smoking or flames in hazard area.
- Positive pressure self-contained breathing apparatus and chemical protective clothing is recommended for personnel involved in clean-up procedures with no fire.
- Do not walk through spilled material; stop leak if it can be done without risk.
- Water spray may reduce vapor; but it will not prevent ignition in closed spaces.

Dispose of in accordance with federal, state and local regulations.

RCRA Hazardous Waste (40 CFR 261.33): Hazardous Waste No. U154 CERCLA Hazardous Substance (40 CFR 302.4): Not Listed SARA Extremely Hazardous Substance (40 CFR 355): Not Listed SARA Toxic Chemical (40 CFR 372.65): Not Listed

Under normal use conditions (outdoor windshield cleaning), respiratory protection is not

justified.

Splash goggles are recommended when handling the solution. Contact lens use is not

recommended.

The selection of protective clothing and gloves is dependent upon anticipated exposure. As reported by the manufacturer, Best Glove style 725R (PVC) offers excellent protection for up to 240 minutes of complete immersion.

The Occupational Safety and Health Administration's Permissible Exposure Limit, which is defined as the maximum concentration of contaminant to which a normal healthy individual may be exposed 8-hours per day, 40-hours per week, without experiencing adverse health effects over a working lifetime.

American Conference of Governmental Industrial Hygienist's Threshold Limit Value, similar to the OSHA PEL but not considered a legal standard.

In inner packaging not over 5 L (1.3 gallons) Consumer commodity, ORM-D Per 49 CFR 173.150 (b) (3) & 173.150 (c)

Maxim Technologies, Inc.

Judgments as to the suitability herein for the user's purposes are necessarily the user's responsibility. Therefore, although reasonable care has been taken in the preparation of such information, Maxim Technologies, Inc., extends no warranties, makes no representations, and assumes no responsibility as to the accuracy or suitability of such information for application to the intended purposes or for the consequences of its use.

SuperClean Brands, Inc. 51 East Maryland Avenue St. Paul, MN 55117-4615

(651) 489-8211

(651) 489-8247

1-800-535-5053

December 12, 2007

Windshield Washer I	Fluid	Used for cleaning windshields
Windshield Wa	asher Fluid	

Hazardous Component*	Approximate Composition	OSHA Permissible Exposure Limit**	NIOSH REL	ACGIH Threshold Limit Value	IDLH (NIOSH)
Methanol (Methyl Alcohol) -CAS 67-56-1 -UN 1230 (DOT Guide 28)	34 percent (by weight)	200 ppm (260 mg/m <sup>3</sup> ) 8-Hour TWA (Skin)	200 ppm (260 mg/m³) 8-Hour TWA  250 ppm (310 mg/m³) Ceiling (Skin)	200 ppm (260 mg/m³) 8-Hour TWA  250 ppm (310 mg/m³) Short-term Exposure Limit (15-minute TWA) (Skin)	6,000 ppm (0.6 percent in air)

<sup>\*</sup> The hazardous component listed is not a known or suspected human carcinogen as listed or determined by the National Agency for Research on Cancer, National Toxicological Program "NTP Seventh Annual Report on Carcinogens," or International Agency for Research on Cancer (IARC) monograph reviews. In addition, it is not considered a carcinogen by the Occupational Safety and Health Administration or the National Institute for Occupational Safety and Health.

<sup>\*\*</sup> This MSDS contains the 1989 PEL's and from the June 1993 Air Contaminants Final Rule, specified in Tables Z-1, Z-2, and Z-3 [Federal Register; 58(124):35338-35351; June 30, 1993].

Approximately 170°F (for product)

90∘F

Soluble

100mm @ 21.2° (methanol)

1.11 (methanol)

10.84 cV (methanol)

-25°F

The windshield washer is blue, and it has a mild characteristic pungent odor from the methanol. The odor threshold for methanol is 10 ppm.

<u>UEL</u> - 36 percent for methanol <u>LEL</u> - 6 percent for methanol

878°F for methanol

Small Fires: Dry chemical, carbon dioxide, water spray or alcohol resistant foam.

Large Fires: Water spray, fog or alcohol-resistant foam.

Move container away from fire area if you can do so without risk. Dike fire control water for later disposal; do not scatter the material. Apply cooling water to the sides of containers exposed to flames until well after the fire is out.

Flammable/combustible material; may be ignited by heat, spark or flame. Vapors may travel to a source of ignition and flash back. Container may explode in heat of fire. Vapor explosion and poison hazard indoors, outdoors, or in sewers. Runoff to sewer may create fire or explosion hazard.

In a closed container, methyl alcohol is stable at room temperature and it is stable under routine handling and storage. Hazardous polymerization will not occur.

Incompatible with beryllium dihydride; metals; oxidants; potassium tert-butoxide; carbon tetrachloride + metals; dichloromethane. Can react vigorously with oxidizing materials.

Explosive reaction with chloroform + sodium methoxide; diethyl zinc. Violent reaction with alkyl aluminum salts; acetyle bromide; chloroform + sodium hydroxide;  $CrO_3$ ; cyanuric chloride; (I + ethanol + HgO);  $P_0(CIO_4)_2$ ;  $P_1(IO_4)_3$ ;  $P_2(IO_4)_3$ ;  $P_2(IO_4)_3$ ;  $P_3(IO_4)_3$ ; P

When methanol is heated to decomposition, carbon dioxide and carbon monoxide may be produced, as well as formaldehyde may be produced, and it emits acrid smoke and irritating fumes.

<sup>1</sup>Lewis, Richard J., Sr.: *Sax's Dangerous Properties of Industrial Materials, Eighth Edition.* New York, New York: Van Nostrand Reinhold, 1992.

The primary routes of entry are inhalation, ingestion, and

Irritant to eyes, skin, and upper respiratory

system. Headaches, drowsiness, dizziness, vertigo, light-headed, nausea, and vomiting. Visual disturbance, optic nerve damage, and blindness. Skin exposure hazard.

Central nervous system, digestive tract, eyes, and skin.

Eye irritation. Inhalation can result nose irritation, headache, fatigue, nausea, visual impairment or complete and possible blindness, acidosis, convulsions, circulatory collapse, respiratory fatigue, and death. Ingestion can cause gastrointestinal (GI) irritation followed by the symptoms described for inhalation and possible kidney impairment. Skin contact results in a cold sensation, dryness, and cracking, possibly leading to dermatitis. Methyl alcohol may be absorbed through the skin and may cause headache, fatigue, and visual disturbances. Eye contact results in irritation with lacrimation, inflamed lids, and photophobia.

Chronic exposure may result in visual impairment or blindness.

Ocular, respiratory, or dermal disorders may be

aggravated by methanol exposure.

Rinse with water 15 to 20 minutes, seek medical assistance. Eyes:

Flush with water for 15 minutes. Skin:

Inhalation: Remove from source to fresh air, provide respiratory support as needed.

Call Physician, hospital emergency room or Poison Control Center immediately. Ingestion:

- Keep unnecessary people away; isolate hazard area and deny entry.
- Stay upwind; keep out of low areas.
- Shut off ignition sources; no flares, smoking or flames in hazard area.
- Positive pressure self-contained breathing apparatus and chemical protective clothing is recommended for personnel involved in clean-up procedures with no fire.
- Do not walk through spilled material: stop leak if it can be done without risk.
- Water spray may reduce vapor; but it will not prevent ignition in closed spaces.

Dispose of in accordance with federal, state and local regulations.

RCRA Hazardous Waste (40 CFR 261.33): Hazardous Waste No. U154 CERCLA Hazardous Substance (40 CFR 302.4): Not Listed SARA Extremely Hazardous Substance (40 CFR 355): Not Listed SARA Toxic Chemical (40 CFR 372.65): Not Listed

Under normal use conditions (outdoor windshield cleaning), respiratory protection is not

justified.

Splash goggles are recommended when handling the solution. Contact lens use is not recommended.

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The Occupational Safety and Health Administration's Permissible Exposure Limit, which is defined as the maximum concentration of contaminant to which a normal healthy individual may be exposed 8-hours per day, 40-hours per week, without experiencing adverse health effects over a working lifetime.

American Conference of Governmental Industrial Hygienist's Threshold Limit Value, similar to the OSHA PEL but not considered a legal standard.

In inner packaging not over 5 L (1.3 gallons) Consumer commodity, ORM-D Per 49 CFR 173.150 (b) (3) & 173.150 (c)

Maxim Technologies, Inc.

Judgments as to the suitability herein for the user's purposes are necessarily the user's responsibility. Therefore, although reasonable care has been taken in the preparation of such information, Maxim Technologies, Inc., extends no warranties, makes no representations, and assumes no responsibility as to the accuracy or suitability of such information for application to the intended purposes or for the consequences of its use.



# **ZEP 40 (AEROSOL)**

Version 2.1 Print Date 05/10/2016 Revision Date 11/16/2015

#### SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Material name ZEP 40 (AEROSOL)

Material number 00000000000014401

Manufacturer or supplier's details

Company Zep Inc.

1310 Seaboard Industrial Blvd., NW Address

Atlanta, GA 30318

Telephone 404-352-1680

# **Emergency telephone numbers**

For SDS Information Compliance Services 1-877-428-9937 For a Medical Emergency 877-541-2016 Toll Free - All Calls Recorded CHEMTREC: 800-424-9300 - All Calls Recorded. For a Transportation In the District of Columbia 202-483-7616 Emergency

## **SECTION 2. HAZARDS IDENTIFICATION**

#### **Emergency Overview**

Appearance	Aerosol containing a liquefied gas
Colour	colourless, clear
Odour	alcohol-like, slight

## **GHS Classification**

Gases under pressure

: Liquefied gas Eye irritation : Category 2A

**GHS** Label element

Hazard pictograms





Signal word : Warning

Hazard statements : H280 Contains gas under pressure; may explode if heated.

H319 Causes serious eye irritation.

Precautionary statements : Prevention:

P264 Wash skin thoroughly after handling. P280 Wear eye protection/ face protection.

Response:

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and

easy to do. Continue rinsing.

P337 + P313 If eye irritation persists: Get medical advice/

attention. Storage:



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P410 + P412 Protect from sunlight. Do not expose to

temperatures exceeding 50 °C/ 122 °F. P403 Store in a well-ventilated place.

#### **Potential Health Effects**

Carcinogenicity:

IARC No component of this product present at levels greater than or

equal to 0.1% is identified as probable, possible or confirmed

human carcinogen by IARC.

ACGIH No component of this product present at levels greater than or

equal to 0.1% is identified as a carcinogen or potential

carcinogen by ACGIH.

OSHA No component of this product present at levels greater than or

equal to 0.1% is identified as a carcinogen or potential

carcinogen by OSHA.

NTP No component of this product present at levels greater than or

equal to 0.1% is identified as a known or anticipated carcinogen

by NTP.

#### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

#### **Hazardous components**

Chemical Name	CAS-No.	Concentration [%]
ethanol	64-17-5	>= 10 - < 20
butane	106-97-8	>= 1 - < 5
propane	74-98-6	>= 1 - < 5

## **SECTION 4. FIRST AID MEASURES**

General advice : Move out of dangerous area.

Show this safety data sheet to the doctor in attendance.

Do not leave the victim unattended.

If inhaled : If unconscious place in recovery position and seek medical

advice.

If symptoms persist, call a physician.

In case of skin contact : Wash off immediately with plenty of water for at least 15

minutes.

Get medical attention if irritation develops and persists.

In case of eye contact : Remove contact lenses.

Protect unharmed eye.

Keep eye wide open while rinsing.

If eye irritation persists, consult a specialist. If in eyes, rinse with water for 15 minutes.

If swallowed : Keep respiratory tract clear.

Never give anything by mouth to an unconscious person.

If symptoms persist, call a physician.





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DO NOT induce vomiting unless directed to do so by a

physician or poison control center.

#### **SECTION 5. FIREFIGHTING MEASURES**

Suitable extinguishing media : Water spray jet

Carbon dioxide (CO2) Alcohol-resistant foam

Dry chemical

Unsuitable extinguishing

media

High volume water jet

Specific hazards during

firefighting

Do not allow run-off from fire fighting to enter drains or water

courses.

Hazardous combustion

products

: Carbon dioxide (CO2) Carbon monoxide

Smoke

Specific extinguishing

methods

Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment.

Further information : Standard procedure for chemical fires.

Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment.

Special protective equipment

for firefighters

: Wear self-contained breathing apparatus for firefighting if

necessary.

## **SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.

Ensure adequate ventilation.

Refer to protective measures listed in sections 7 and 8. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

Environmental precautions : Prevent further leakage or spillage if safe to do so.

Methods and materials for containment and cleaning up

Soak up with inert absorbent material (e.g. sand, silica gel,

acid binder, universal binder, sawdust).

Sweep up or vacuum up spillage and collect in suitable

container for disposal.

## **SECTION 7. HANDLING AND STORAGE**

Advice on safe handling : Avoid contact with skin and eyes.

For personal protection see section 8.

Smoking, eating and drinking should be prohibited in the

application area.

Always replace cap after use.



# **ZEP 40 (AEROSOL)**

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Dispose of rinse water in accordance with local and national

regulations.

Avoid exposure - obtain special instructions before use. Take precautionary measures against static discharges.

Do not breathe vapours or spray mist.

Conditions for safe storage : BEWARE: Aerosol is pressurized. Keep away from direct sun

exposure and temperatures over 50 °C. Do not open by force or throw into fire even after use. Do not spray on flames or

red-hot objects.

Observe label precautions.

Keep in a dry, cool and well-ventilated place.

Electrical installations / working materials must comply with

the technological safety standards.

Materials to avoid : Do not freeze.

Strong oxidizing agents

#### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
ethanol	64-17-5	TWA	1,000 ppm	ACGIH
		TWA	1,000 ppm 1,900 mg/m3	NIOSH REL
		TWA	1,000 ppm 1,900 mg/m3	OSHA Z-1
		TWA	1,000 ppm 1,900 mg/m3	OSHA P0
butane	106-97-8	TWA	800 ppm 1,900 mg/m3	NIOSH REL
		TWA	800 ppm 1,900 mg/m3	OSHA P0
propane	74-98-6	TWA	1,000 ppm	ACGIH
		TWA	1,000 ppm 1,800 mg/m3	NIOSH REL
		TWA	1,000 ppm 1,800 mg/m3	OSHA Z-1
		TWA	1,000 ppm 1,800 mg/m3	OSHA P0

Engineering measures : Handle only in a place equipped with local exhaust (or other

appropriate exhaust).

# Personal protective equipment

Respiratory protection : In case of insufficient ventilation, wear suitable respiratory

equipment.

Hand protection

Remarks : The suitability for a specific workplace should be discussed



# **ZEP 40 (AEROSOL)**

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with the producers of the protective gloves.

Eye protection : Tightly fitting safety goggles

Wear face-shield and protective suit for abnormal processing

problems.

Ensure that eyewash stations and safety showers are close to

the workstation location.

Skin and body protection : Impervious clothing

Choose body protection according to the amount and

concentration of the dangerous substance at the work place.

Hygiene measures : When using do not eat or drink.

When using do not smoke.

Wash hands before breaks and at the end of workday.

#### **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance : Aerosol containing a liquefied gas

Colour : colourless, clear
Odour : alcohol-like, slight
Odour Threshold : No data available
pH : not determined
Melting point/freezing point : Not applicable

Boiling point : 93 °C

Flash point

Not applicable

Evaporation rate : 1

Flammability (solid, gas) : The product is not flammable.

Upper explosion limit : Not applicable

Lower explosion limit : Not applicable

Vapour pressure : No data available

Relative vapour density : No data available

Density : 1.1 g/cm3

Solubility(ies)

Water solubility : soluble

Solubility in other solvents : not determined

Partition coefficient: n-

octanol/water

: No data available

Auto-ignition temperature : not determined

Thermal decomposition : No data available



# **ZEP 40 (AEROSOL)**

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Viscosity

Viscosity, kinematic : Not applicable
Heat of combustion : 7.94 kJ/g

# **SECTION 10. STABILITY AND REACTIVITY**

Reactivity : Stable

Chemical stability : Stable under normal conditions.

Possibility of hazardous

reactions

: Vapours may form explosive mixture with air.

No decomposition if stored and applied as directed.

Conditions to avoid : Heat, flames and sparks.

Extremes of temperature and direct sunlight.

Incompatible materials : Strong oxidizing agents

Hazardous decomposition

products

: Carbon monoxide, carbon dioxide and unburned

hydrocarbons (smoke).

#### **SECTION 11. TOXICOLOGICAL INFORMATION**

#### Acute toxicity

**Product:** 

Acute oral toxicity : Acute toxicity estimate : > 5,000 mg/kg

Method: Calculation method

# Components:

ethanol:

Acute oral toxicity : LD50 Oral Rat: 7,060 mg/kg

Acute inhalation toxicity : LC50 Rat: 124.7 mg/l

Exposure time: 4 h

butane:

Acute inhalation toxicity : LC50 Mouse: 1,237 mg/l

Exposure time: 2 h

LC50 Rat: 1,355 mg/l

propane:

Acute inhalation toxicity : LC50 Mouse: 1,237 mg/l

Exposure time: 2 h



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LC50 Rat: 658 mg/l Exposure time: 4 h

LC50 Rat: 1,355 mg/l

#### Skin corrosion/irritation

#### **Product:**

Remarks: May cause skin irritation in susceptible persons.

# Serious eye damage/eye irritation

**Product:** 

Remarks: Severe eye irritation

# Respiratory or skin sensitisation

No data available

# Germ cell mutagenicity

No data available

## Carcinogenicity

No data available

# Reproductive toxicity

No data available

ethanol: butane: propane:

STOT - single exposure

No data available

STOT - repeated exposure

No data available

Aspiration toxicity

No data available

#### **Further information**

**Product:** 

Remarks: No data available

# **SECTION 12. ECOLOGICAL INFORMATION**

# **Ecotoxicity**

No data available



# **ZEP 40 (AEROSOL)**

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## Persistence and degradability

No data available

**Bioaccumulative potential** 

Product:

Partition coefficient: n-

octanol/water Components: butane : : Remarks: No data available

Partition coefficient: n-

octanol/water

: Pow: 2.89

## Mobility in soil

No data available

## Other adverse effects

No data available

**Product:** 

Regulation 40 CFR Protection of Environment; Part 82 Protection of

Stratospheric Ozone - CAA Section 602 Class I

Substances

Remarks This product neither contains, nor was manufactured

with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A

+ B).

Additional ecological

information

: No data available

## **SECTION 13. DISPOSAL CONSIDERATIONS**

Disposal methods

Waste from residues : Do not dispose of waste into sewer.

Do not contaminate ponds, waterways or ditches with

chemical or used container.

Dispose of in accordance with local regulations.

Contaminated packaging : Empty remaining contents.

Dispose of as unused product. Do not re-use empty containers.

Do not burn, or use a cutting torch on, the empty drum.

## **SECTION 14. TRANSPORT INFORMATION**

Transportation Regulation: 49 CFR (USA):

UN1950, AEROSOLS, NON-FLAMMABLE, 2.2, - Limited quantity

Transportation Regulation: IMDG (Vessel):

UN1950, AEROSOLS, NON-FLAMMABLE, 2.2, - Limited quantity



# **ZEP 40 (AEROSOL)**

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Transportation Regulation: IATA (Cargo Air):

UN1950, AEROSOLS, NON-FLAMMABLE, 2.2, - Limited quantity

Transportation Regulation: IATA (Passenger Air):

UN1950, AEROSOLS, NON-FLAMMABLE, 2.2, - Limited quantity

Transportation Regulation: TDG (Canada):

UN1950, AEROSOLS, NON-FLAMMABLE, 2.2, - Limited quantity

#### SECTION 15. REGULATORY INFORMATION

#### EPCRA - Emergency Planning and Community Right-to-Know Act

#### **CERCLA Reportable Quantity**

Components	CAS-No.	Component RQ	Calculated product RQ
		(lbs)	(lbs)
ammonia, aqueous solution	1336-21-6	1000	*

<sup>\*:</sup> Calculated RQ exceeds reasonably attainable upper limit.

#### **CERCLA Reportable Quantity**

This material does not contain any components with a CERCLA RQ.

#### SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards : Acute Health Hazard

Sudden Release of Pressure Hazard

SARA 302 : No chemicals in this material are subject to the reporting

requirements of SARA Title III, Section 302.

SARA 313 : This material does not contain any chemical components with

known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

California Prop 65 This product does not contain any chemicals known to State of

California to cause cancer, birth defects, or any other

reproductive harm.

# The components of this product are reported in the following inventories:

TSCA On TSCA Inventory

DSL This product contains one or several components that are not on the

Canadian DSL nor NDSL.

AICS
Not in compliance with the inventory
NZIoC
Not in compliance with the inventory
PICCS
Not in compliance with the inventory
IECSC
Not in compliance with the inventory

#### Inventory Acronym and Validity Area Legend:

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIOC (New Zealand), PICCS (Philippines), TCSI (Taiwan), TSCA (USA)

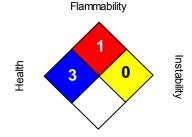
# **ZEP 40 (AEROSOL)**

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#### **SECTION 16. OTHER INFORMATION**

#### **Further information**

#### NFPA:



Special hazard.

#### HMIS III:

HEALTH	3
FLAMMABILITY	0
PHYSICAL HAZARD	2

0 = not significant, 1 = Slight, 2 = Moderate, 3 = High

4 = Extreme, \* = Chronic

#### OSHA GHS Label Information:

Hazard pictograms





Signal word Hazard statements Precautionary statements Warning:

Contains gas under pressure; may explode if heated. Causes serious eye irritation.

**Prevention:** Wash skin thoroughly after handling. Wear eye protection/ face protection. **Response:** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/ attention.

**Storage:** Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F. Store in a well-ventilated place.

Version:	2.1
Revision Date:	11/16/2015
Print Date:	05/10/2016

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# ZEP 40 (AEROSOL) Version 2.1

ersion 2.1 Revision Date 11/16/2015

Print Date 05/10/2016



# **ZEP A-ONE 275GL**

Version 1.0 Revision Date 11/15/2014 Print Date 07/06/2016

## **SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**

Material name : ZEP A-ONE 275GL

Material number : 0000000000126989

Manufacturer or supplier's details

Company : Zep Inc.

Address : 1310 Seaboard Industrial Blvd., NW

Atlanta, GA 30318

Telephone : 404-352-1680

# Emergency telephone numbers

For SDS Information : Compliance Services 1-877-428-9937

For a Medical Emergency : 877-541-2016 Toll Free - All Calls Recorded
For a Transportation : CHEMTREC: 800-424-9300 - All Calls Recorded.

**Emergency** In the District of Columbia 202-483-7616

#### SECTION 2. HAZARDS IDENTIFICATION

#### **Emergency Overview**

Appearance	liquid
Colour	violet
Odour	pleasant

## **GHS Classification**

Skin corrosion : Category 1A Serious eye damage : Category 1

**GHS** Label element

Hazard pictograms

Signal word : Danger

Hazard statements : H314 Causes severe skin burns and eye damage.

Precautionary statements : **Prevention**:

P264 Wash skin thoroughly after handling.

P280 Wear protective gloves/ protective clothing/ eye

protection/ face protection.

Response:

P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT

induce vomiting.

P303 + P361 + P353 IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/

shower.



# **ZEP A-ONE 275GL**

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P304 + P340 + P310 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/ physician. P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/ physician.

P363 Wash contaminated clothing before reuse.

Storage:

P405 Store locked up.

Disposal:

P501 Dispose of contents/container in accordance with local

regulation.

#### **Potential Health Effects**

Carcinogenicity:

IARC Group 2B: Possibly carcinogenic to humans

trisodium nitrilotriacetate 5064-31-3

(Solution)

ACGIH Confirmed animal carcinogen with unknown relevance to

humans

2-butoxyethanol 111-76-2

OSHA No component of this product present at levels greater than or

equal to 0.1% is identified as a carcinogen or potential

carcinogen by OSHA.

NTP No component of this product present at levels greater than or

equal to 0.1% is identified as a known or anticipated carcinogen

by NTP.

# SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

# **Hazardous components**

Chemical Name	CAS-No.	Concentration [%]
tetrasodium ethylenediaminetetraacetate	64-02-8	>= 5 - < 10
2-butoxyethanol	111-76-2	>= 1 - < 5
sodium xylenesulphonate	1300-72-7	>= 1 - < 5
Alcohols, C10-14, ethoxylated	66455-15-0	>= 1 - < 5
disodium metasilicate	6834-92-0	>= 1 - < 5
2-(2-butoxyethoxy)ethanol	112-34-5	>= 1 - < 5
trisodium nitrilotriacetate (Solution)	5064-31-3	>= 0.1 - < 1

#### **SECTION 4. FIRST AID MEASURES**

General advice : Move out of dangerous area.

Consult a physician.

Show this safety data sheet to the doctor in attendance.

Do not leave the victim unattended.

If inhaled : If unconscious place in recovery position and seek medical



# **ZEP A-ONE 275GL**

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advice.

If symptoms persist, call a physician.

In case of skin contact : Immediate medical treatment is necessary as untreated

wounds from corrosion of the skin heal slowly and with

difficulty.

If on skin, rinse well with water. If on clothes, remove clothes.

In case of eye contact : Small amounts splashed into eyes can cause irreversible

tissue damage and blindness.

In the case of contact with eyes, rinse immediately with plenty

of water and seek medical advice.

Continue rinsing eyes during transport to hospital.

Remove contact lenses. Protect unharmed eye.

Keep eye wide open while rinsing.

If eye irritation persists, consult a specialist.

If swallowed : Clean mouth with water and drink afterwards plenty of water.

Keep respiratory tract clear. Do NOT induce vomiting.

Do not give milk or alcoholic beverages.

Never give anything by mouth to an unconscious person.

If symptoms persist, call a physician. Take victim immediately to hospital.

## **SECTION 5. FIREFIGHTING MEASURES**

Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or

carbon dioxide.

Unsuitable extinguishing

media

: High volume water jet

Specific hazards during

firefighting

: Do not allow run-off from fire fighting to enter drains or water

courses.

Hazardous combustion

products

: Carbon dioxide (CO2) Carbon monoxide

Nitrogen oxides (NOx)

Smoke

Sulphur oxides

Specific extinguishing

methods

: Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment.

Further information : Collect contaminated fire extinguishing water separately. This

must not be discharged into drains.

Fire residues and contaminated fire extinguishing water must

be disposed of in accordance with local regulations.

Special protective equipment

for firefighters

: Wear self-contained breathing apparatus for firefighting if

necessary.



# **ZEP A-ONE 275GL**

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## **SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and emergency procedures Environmental precautions : Use personal protective equipment.

: Prevent product from entering drains.

Prevent further leakage or spillage if safe to do so.

If the product contaminates rivers and lakes or drains inform

respective authorities.

Methods and materials for containment and cleaning up

Soak up with inert absorbent material (e.g. sand, silica gel,

acid binder, universal binder, sawdust).

Keep in suitable, closed containers for disposal.

#### **SECTION 7. HANDLING AND STORAGE**

Advice on safe handling : Do not breathe vapours/dust.

Avoid exposure - obtain special instructions before use.

Avoid contact with skin and eyes. For personal protection see section 8.

Smoking, eating and drinking should be prohibited in the

application area.

To avoid spills during handling keep bottle on a metal tray. Dispose of rinse water in accordance with local and national

regulations.

Conditions for safe storage : Keep container tightly closed in a dry and well-ventilated

place.

Observe label precautions.

Electrical installations / working materials must comply with

the technological safety standards.

Materials to avoid : Oxidizing agents

Do not store near acids.

#### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

## Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
2-butoxyethanol	111-76-2	TWA	20 ppm	ACGIH
		TWA	5 ppm 24 mg/m3	NIOSH REL
		TWA	50 ppm 240 mg/m3	OSHA Z-1
		TWA	25 ppm 120 mg/m3	OSHA P0

#### Biological occupational exposure limits



# **ZEP A-ONE 275GL**

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Component	CAS-No.	Control	Biological	Sampling	Permissible	Basis
		parameters	specimen	time	concentration	
2-BUTOXYETHANOL	111-76-2	Butoxyacetic acid (BAA)	Urine	End of shift (As soon as possible after exposure ceases)	200 mg/g	ACGIH BEI
Remarks: Creatinine	ı			, , , , , , , , , , , , , , , , , , ,	1	1

# Personal protective equipment

Respiratory protection : In the case of vapour formation use a respirator with an

approved filter.

Hand protection

Remarks : The suitability for a specific workplace should be discussed

with the producers of the protective gloves.

Eye protection : Eye wash bottle with pure water

Tightly fitting safety goggles

Wear face-shield and protective suit for abnormal processing

problems.

Skin and body protection : impervious clothing

Choose body protection according to the amount and

concentration of the dangerous substance at the work place.

Hygiene measures : When using do not eat or drink.

When using do not smoke.

Wash hands before breaks and at the end of workday.

#### **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance : liquid

Colour : violet
Odour : pleasant

Odour Threshold : no data available

pH : 12.5 - 13.0

Melting point/freezing point : no data available

Boiling point : 104.44 °C

Flash point

does not flash

Evaporation rate : 1

Upper explosion limit : no data available Lower explosion limit : no data available



# **ZEP A-ONE 275GL**

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Vapour pressure : no data available
Relative vapour density : no data available
Density : 1.081 g/cm3

Solubility(ies)

Water solubility : soluble

Partition coefficient: n-

octanol/water

: no data available

Auto-ignition temperature : not determined

Thermal decomposition : no data available

Viscosity

Viscosity, kinematic : 5 mm2/s (20 °C)

#### **SECTION 10. STABILITY AND REACTIVITY**

Reactivity : Stable

Chemical stability : Stable under normal conditions.

Possibility of hazardous

reactions

: No decomposition if stored and applied as directed.

Conditions to avoid : no data available

Incompatible materials : Oxidizing agents

Acids

Hazardous decomposition

products

: Carbon monoxide, carbon dioxide and unburned

hydrocarbons (smoke).

#### **SECTION 11. TOXICOLOGICAL INFORMATION**

#### Acute toxicity

**Product:** 

Acute oral toxicity : Acute toxicity estimate : 4,031 mg/kg

Method: Calculation method

Acute inhalation toxicity : Acute toxicity estimate : > 40 mg/l

Exposure time: 4 h
Test atmosphere: vapour
Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate : > 5,000 mg/kg

Method: Calculation method



# **ZEP A-ONE 275GL**

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**Components:** 

disodium metasilicate:

Acute oral toxicity : LD50 rat: 1,153 mg/kg

Skin corrosion/irritation

**Product:** 

Remarks: Extremely corrosive and destructive to tissue.

Serious eye damage/eye irritation

**Product:** 

Remarks: May cause irreversible eye damage.

Respiratory or skin sensitisation

no data available

Germ cell mutagenicity

no data available

Carcinogenicity

**Product:** 

Carcinogenicity - : Not classifiable as a human carcinogen.

Assessment

Reproductive toxicity

no data available

tetrasodium ethylenediaminetetraacetate:

2-butoxyethanol:

sodium xylenesulphonate:

Alcohols, C10-14, ethoxylated:

disodium metasilicate:

2-(2-butoxyethoxy)ethanol:

trisodium nitrilotriacetate (Solution):

STOT - single exposure

no data available

STOT - repeated exposure

no data available

Aspiration toxicity

no data available

**Further information** 

**Product:** 

Remarks: no data available



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## **SECTION 12. ECOLOGICAL INFORMATION**

**Ecotoxicity** 

no data available

Persistence and degradability

no data available

Bioaccumulative potential

**Product:** 

Partition coefficient: n-

octanol/water

Components:

2-(2-butoxyethoxy)ethanol:

Partition coefficient: n-

octanol/water

: Pow: 1

Mobility in soil

no data available

Other adverse effects

no data available

**Product:** 

Regulation 40 CFR Protection of Environment; Part 82 Protection of

: Remarks: no data available

Stratospheric Ozone - CAA Section 602 Class I

Substances

Remarks This product neither contains, nor was manufactured

with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A

+ B).

Additional ecological

information

: no data available

#### **SECTION 13. DISPOSAL CONSIDERATIONS**

Disposal methods

Waste from residues : Do not dispose of waste into sewer.

Do not contaminate ponds, waterways or ditches with

chemical or used container.

Dispose of in accordance with local regulations.

Contaminated packaging : Empty remaining contents.

Dispose of as unused product. Do not re-use empty containers.



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#### **SECTION 14. TRANSPORT INFORMATION**

#### International regulation

**UNRTDG** 

Not regulated as a dangerous good

**IATA-DGR** 

Not regulated as a dangerous good

**IMDG-Code** 

Not regulated as a dangerous good

#### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

## **National Regulations**

49 CFR

Not regulated as a dangerous good

## Special precautions for user

not applicable

# **SECTION 15. REGULATORY INFORMATION**

# **EPCRA - Emergency Planning and Community Right-to-Know Act**

#### **CERCLA Reportable Quantity**

Components	CAS-No.	Component RQ	Calculated product RQ
		(lbs)	(lbs)
ethane-1,2-diol	107-21-1	5000	*

<sup>\*:</sup> Calculated RQ exceeds reasonably attainable upper limit.

# SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards : Acute Health Hazard

SARA 302: No chemicals in this material are subject to the

reporting requirements of SARA Title III, Section 302.

SARA 313: This material does not contain any chemical

components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA

Title III, Section 313.

California Prop 65 This product does not contain any chemicals known to State of



# **ZEP A-ONE 275GL**

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California to cause cancer, birth defects, or any other reproductive harm.

#### The components of this product are reported in the following inventories:

TSCA On TSCA Inventory

DSL This product contains one or several components that are not on the

Canadian DSL nor NDSL.

AICS
Not in compliance with the inventory
NZIoC
Not in compliance with the inventory
PICCS
Not in compliance with the inventory
IECSC
Not in compliance with the inventory

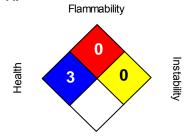
## **Inventory Acronym and Validity Area Legend:**

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIOC (New Zealand), PICCS (Philippines), TSCA (USA)

#### **SECTION 16. OTHER INFORMATION**

#### **Further information**

#### NFPA:



Special hazard.

#### HMIS III:

HEALTH	3
FLAMMABILITY	0
PHYSICAL HAZARD	0

0 = not significant, 1 = Slight,

2 = Moderate, 3 = High

4 = Extreme, \* = Chronic

#### OSHA GHS Label Information:

Hazard pictograms



Signal w ord Hazard statements Precautionary statements

Danger:

Causes severe skin burns and eye damage.

**Prevention:** Wash skin thoroughly after handling. Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician. Wash contaminated clothing before reuse.

Storage: Store locked up.

**Disposal:** Dispose of contents/container in accordance with local regulation.



# **ZEP A-ONE 275GL**

Version 1.0 Revision Date 11/15/2014 Print Date 07/06/2016

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# A00315 MST HEAVY DUTY ADHESIVE 20net12

Version 3.3 Revision Date 02/08/2017 Print Date 03/03/2017

#### SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Material name : A00315 MST HEAVY DUTY ADHESIVE 20net12

Material number : 0000000001002035

Manufacturer or supplier's details

Company : Zep Inc.

Address : 1310 Seaboard Industrial Blvd., NW

Atlanta, GA 30318

Telephone : 404-352-1680

For SDS Information : Compliance Services 1-877-428-9937

For a Medical Emergency : 877-541-2016 Toll Free - All Calls Recorded

For a Transportation : CHEMTREC: 800-424-9300 - All Calls Recorded.

Emergency In the District of Columbia 202-483-7616

#### Recommended use of the chemical and restrictions on use

Recommended use : Adhesive

## **SECTION 2. HAZARDS IDENTIFICATION**

## **Emergency Overview**

Appearance	Aerosol containing a liquefied gas
Colour	light yellow
Odour	solvent-like

#### **GHS Classification**

Flammable aerosols : Category 1
Gases under pressure : Liquefied gas
Skin irritation : Category 2
Eye irritation : Category 2A

Specific target organ toxicity -

single exposure

: Category 3 (Central nervous system)

## **GHS** label elements

Hazard pictograms :







Signal word : Danger

Hazard statements : H222 Extremely flammable aerosol.

H280 Contains gas under pressure; may explode if heated.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.



# A00315 MST HEAVY DUTY ADHESIVE 20net12

Version 3.3 Revision Date 02/08/2017 Print Date 03/03/2017

Precautionary statements

#### : Prevention:

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.

P211 Do not spray on an open flame or other ignition source. P251 Pressurized container: Do not pierce or burn, even after

P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

P264 Wash skin thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves/ eye protection/ face protection.

# Response:

P302 + P352 IF ON SKIN: Wash with plenty of soap and water. P304 + P340 + P312 IF INHALED: Remove person to fresh air

and keep comfortable for breathing. Call a POISON

CENTER/doctor if you feel unwell.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P332 + P313 If skin irritation occurs: Get medical advice/

attention.

P337 + P313 If eye irritation persists: Get medical advice/

attention.

P362 Take off contaminated clothing and wash before reuse.

#### Storage:

P403 Store in a well-ventilated place.

P410 + P412 Protect from sunlight. Do not expose to

temperatures exceeding 50 °C/ 122 °F.

## Disposal:

Dispose of contents/container in accordance with local

regulation.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

#### **Hazardous components**

Chemical name	CAS-No.	Concentration [%]
propane	74-98-6	>= 20 - < 30
acetone	67-64-1	>= 20 - < 30
butane	106-97-8	>= 10 - < 20
Naphtha (petroleum), hydrotreated light	64742-49-0	>= 10 - < 20
methyl acetate	79-20-9	>= 5 - < 10

The exact percentages of disclosed substances are withheld as trade secrets.

# **SECTION 4. FIRST AID MEASURES**

General advice : Move out of dangerous area.

Show this safety data sheet to the doctor in attendance.

Do not leave the victim unattended.

If inhaled : If unconscious place in recovery position and seek medical

advice.

If symptoms persist, call a physician.



# A00315 MST HEAVY DUTY ADHESIVE 20net12

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In case of skin contact : Take off contaminated clothing and shoes immediately.

Get medical attention if irritation develops and persists.

Wash contaminated clothing before re-use.

Wash off immediately with plenty of water for at least 15

minutes.

In case of eye contact : Flush eyes with water as a precaution.

Remove contact lenses. Protect unharmed eye.

Keep eye wide open while rinsing.

If eye irritation persists, consult a specialist.

If swallowed : Keep respiratory tract clear.

DO NOT induce vomiting unless directed to do so by a

physician or poison control center.

Most important symptoms and effects, both acute and

delayed

: Effects are immediate and delayed.

Symptoms may include irritation, redness, pain, and rash.

Causes skin irritation.

Causes serious eye irritation.

Review section 2 of SDS to see all potential hazards.

Notes to physician : Treat symptomatically. Symptoms may be delayed.

#### **SECTION 5. FIREFIGHTING MEASURES**

Suitable extinguishing media : Dry chemical

Water spray jet Alcohol-resistant foam Carbon dioxide (CO2)

Unsuitable extinguishing

media

: High volume water jet

Hazardous combustion

products

: Carbon dioxide (CO2) Carbon monoxide

Smoke

Specific extinguishing

methods

: Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment.

Further information : Collect contaminated fire extinguishing water separately. This

must not be discharged into drains.

Fire residues and contaminated fire extinguishing water must

be disposed of in accordance with local regulations. For safety reasons in case of fire, cans should be stored

separately in closed containments.

Use a water spray to cool fully closed containers.

Special protective equipment

for firefighters

Wear self-contained breathing apparatus for firefighting if

necessary.

# **SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, : Use personal protective equipment.



# A00315 MST HEAVY DUTY ADHESIVE 20net12

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protective equipment and emergency procedures

Ensure adequate ventilation.

Refer to protective measures listed in sections 7 and 8.

Remove all sources of ignition.

Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

Environmental precautions

Prevent product from entering drains.

Prevent further leakage or spillage if safe to do so.

If the product contaminates rivers and lakes or drains inform

respective authorities.

Methods and materials for containment and cleaning up

: Soak up with inert absorbent material (e.g. sand, silica gel,

acid binder, universal binder, sawdust).

Sweep up or vacuum up spillage and collect in suitable

container for disposal.

# **SECTION 7. HANDLING AND STORAGE**

Advice on safe handling : For personal protection see section 8.

Smoking, eating and drinking should be prohibited in the

application area.

Always replace cap after use.

Do not breathe vapours or spray mist.

Take precautionary measures against static discharges. Provide sufficient air exchange and/or exhaust in work rooms.

Conditions for safe storage

BEWARE: Aerosol is pressurized. Keep away from direct sun exposure and temperatures over 50 °C. Do not open by force or throw into fire even after use. Do not spray on flames or

red-hot objects. No smoking.

Observe label precautions.

Keep in a dry, cool and well-ventilated place.

Electrical installations / working materials must comply with

the technological safety standards.

Materials to avoid : Strong oxidizing agents

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

# Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
propane	74-98-6	TWA	1,000 ppm	ACGIH
		TWA	1,000 ppm	NIOSH REL
			1,800 mg/m3	
		TWA	1,000 ppm	OSHA Z-1
			1,800 mg/m3	
		TWA	1,000 ppm	OSHA P0
			1,800 mg/m3	
		PEL	1,000 ppm	CAL PEL



# A00315 MST HEAVY DUTY ADHESIVE 20net12

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			1,800 mg/m3	
acetone	67-64-1	TWA	250 ppm	ACGIH
		STEL	500 ppm	ACGIH
		TWA	250 ppm 590 mg/m3	NIOSH REL
		TWA	1,000 ppm 2,400 mg/m3	OSHA Z-1
		TWA	750 ppm 1,800 mg/m3	OSHA P0
		STEL	1,000 ppm 2,400 mg/m3	OSHA P0
		STEL	750 ppm 1,780 mg/m3	CAL PEL
		С	3,000 ppm	CAL PEL
		PEL	500 ppm 1,200 mg/m3	CAL PEL
butane	106-97-8	TWA	800 ppm 1,900 mg/m3	NIOSH REL
		TWA	800 ppm 1,900 mg/m3	OSHA P0
		PEL	800 ppm 1,900 mg/m3	CAL PEL
methyl acetate	79-20-9	TWA	200 ppm	ACGIH
-		STEL	250 ppm	ACGIH
		TWA	200 ppm 610 mg/m3	NIOSH REL
		ST	250 ppm 760 mg/m3	NIOSH REL
		TWA	200 ppm 610 mg/m3	OSHA Z-1
		TWA	200 ppm 610 mg/m3	OSHA P0
		STEL	250 ppm 760 mg/m3	OSHA P0
		PEL	200 ppm 610 mg/m3	CAL PEL
		STEL	250 ppm 760 mg/m3	CAL PEL

Hazardous components without workplace control parameters

# Biological occupational exposure limits

Component	CAS-No.	Control	Biological	Sampling	Permissible	Basis
		parameters	specimen	time	concentration	
2-PROPANONE	67-64-1	Acetone	Urine	End of shift (As soon as possible after	25 mg/l	ACGIH BEI
				exposure ceases)		

Engineering measures : effective ventilation in all processing areas

# Personal protective equipment

Respiratory protection : Use respiratory protection unless adequate local exhaust

ventilation is provided or exposure assessment demonstrates



## A00315 MST HEAVY DUTY ADHESIVE 20net12

Version 3.3 Revision Date 02/08/2017 Print Date 03/03/2017

that exposures are within recommended exposure guidelines.

Hand protection

Remarks : Skin should be washed after contact. For prolonged or

repeated contact use protective gloves. The suitability for a specific workplace should be discussed with the producers of

the protective gloves.

Eye protection : Safety glasses

Ensure that eyewash stations and safety showers are close to

the workstation location.

Skin and body protection : Impervious clothing

Choose body protection according to the amount and

concentration of the dangerous substance at the work place.

Hygiene measures : General industrial hygiene practice.

#### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Aerosol containing a liquefied gas

Colour : light yellow
Odour : solvent-like

Odour Threshold : No data available pH : No data available Melting point/freezing point : No data available Boiling point : Not applicable

Flash point

Not applicable

Evaporation rate : No data available

Flammability (solid, gas) : Extremely flammable aerosol.

Upper explosion limit : No data available
Lower explosion limit : No data available
Vapour pressure : No data available
Relative vapour density : No data available
Density : No data available

Solubility(ies)

Water solubility : partly soluble
Partition coefficient: n- : No data available

octanol/water

Auto-ignition temperature : not determined

Thermal decomposition : No data available

Heat of combustion : 40.94 kJ/g



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#### **SECTION 10. STABILITY AND REACTIVITY**

Reactivity : Stable

Chemical stability : Stable under normal conditions.

Possibility of hazardous

reactions

: Vapours may form explosive mixture with air.

No decomposition if stored and applied as directed.

Conditions to avoid : Heat, flames and sparks.

Extremes of temperature and direct sunlight.

Incompatible materials : Strong oxidizing agents

Hazardous decomposition

products

: Carbon monoxide, carbon dioxide and unburned

hydrocarbons (smoke). Nitrogen oxides (NOx)

#### **SECTION 11. TOXICOLOGICAL INFORMATION**

## **Potential Health Effects**

Aggravated Medical

Condition

: None known.

Symptoms of Overexposure : Effects are immediate and delayed.

Symptoms may include irritation, redness, pain, and rash.

Carcinogenicity:

IARC No component of this product present at levels greater than or

equal to 0.1% is identified as probable, possible or confirmed

human carcinogen by IARC.

OSHA No component of this product present at levels greater than or

equal to 0.1% is identified as a carcinogen or potential

carcinogen by OSHA.

NTP No component of this product present at levels greater than or

equal to 0.1% is identified as a known or anticipated carcinogen

by NTP.

Acute toxicity

Components:

propane:

Acute inhalation toxicity : LC50 Mouse: 1,237 mg/l

Exposure time: 2 h

LC50 Rat: 658 mg/l



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Exposure time: 4 h

LC50 Rat: 1,355 mg/l

acetone:

Acute oral toxicity : LD50 Rat: 5,800 mg/kg

Acute inhalation toxicity : LC50 Rat: 132 mg/l

Exposure time: 3 h

LC50 Rat: 50.1 mg/l

Acute dermal toxicity : LD50 Guinea pig: > 7,426 mg/kg

LD50 Rabbit: > 7,426 mg/kg

butane:

Acute inhalation toxicity : LC50 Mouse: 1,237 mg/l

Exposure time: 2 h

LC50 Rat: 1,355 mg/l

## Skin corrosion/irritation

**Product:** 

Remarks: Irritating to skin.

## Serious eye damage/eye irritation

**Product:** 

Remarks: Irritating to eyes.

## Respiratory or skin sensitisation

No data available

### Germ cell mutagenicity

No data available

## Carcinogenicity

No data available

## Reproductive toxicity

No data available

propane: acetone: butane:

Naphtha (petroleum), hydrotreated light:

methyl acetate:

## STOT - single exposure



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No data available

STOT - repeated exposure

No data available

Aspiration toxicity

No data available

**Further information** 

**Product:** 

Remarks: No data available

#### **SECTION 12. ECOLOGICAL INFORMATION**

**Ecotoxicity** 

No data available

Persistence and degradability

No data available

Bioaccumulative potential

**Product:** 

Partition coefficient: n-

octanol/water
Components:
butane:

Partition coefficient: n-

octanol/water

: Pow: 2.89

Mobility in soil

No data available

Other adverse effects

No data available

**Product:** 

Regulation 40 CFR Protection of Environment; Part 82 Protection of

: Remarks: No data available

Stratospheric Ozone - CAA Section 602 Class I

Substances

Remarks This product neither contains, nor was manufactured

with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A

+ B).

Additional ecological

information

: No data available



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#### **SECTION 13. DISPOSAL CONSIDERATIONS**

Disposal methods

Waste from residues : Dispose of in accordance with local regulations.

Do not contaminate ponds, waterways or ditches with

chemical or used container.

The product should not be allowed to enter drains, water

courses or the soil.

Contaminated packaging : Do not burn, or use a cutting torch on, the empty drum.

Dispose of as unused product. Empty remaining contents. Do not re-use empty containers.

#### **SECTION 14. TRANSPORT INFORMATION**

Transportation Regulation: 49 CFR (USA): ORM-D, CONSUMER COMMODITY

Transportation Regulation: IMDG (Vessel): UN1950, AEROSOLS, 2.1, - Limited quantity

Transportation Regulation: IATA (Cargo Air):

UN1950, Aerosols, flammable, 2.1, - Limited quantity

Transportation Regulation: IATA (Passenger Air): UN1950, Aerosols, flammable, 2.1, - Limited quantity

Transportation Regulation: TDG (Canada): UN1950, AEROSOLS, 2.1, - Limited quantity

The product as delivered to the customer conforms to packaging requirements for shipment by road under US Department of Transportation (DOT) regulations. Additional transportation classifications noted above are for reference only, and not a certification or warranty of the suitability of the packaging for shipment under these alternative transport regulations.

#### **SECTION 15. REGULATORY INFORMATION**

**TSCA list** : No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification

requirements.

## EPCRA - Emergency Planning and Community Right-to-Know Act

#### **CERCLA Reportable Quantity**

Components	CAS-No.	Component RQ	Calculated product RQ	
		(lbs)	(lbs)	
•				



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acetone | 67-64-1 | 5000 | \*

## SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards : Fire Hazard

Sudden Release of Pressure Hazard

Acute Health Hazard

SARA 302 : No chemicals in this material are subject to the reporting

requirements of SARA Title III, Section 302.

SARA 313 : This material does not contain any chemical components with

known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

California Prop 65 WARNING! This product contains a chemical known to the

State of California to cause cancer.

benzene 71-43-2

WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive

harm.

toluene 108-88-3 benzene 71-43-2

The components of this product are reported in the following inventories:

TSCA On TSCA Inventory

DSL All components of this product are on the Canadian DSL

For information on the country notification status for other regions please contact the manufacturer's regulatory group.

**Inventory Acronym and Validity Area Legend:** 

TSCA (USA), DSL (Canada), NDSL (Canada)

## **SECTION 16. OTHER INFORMATION**

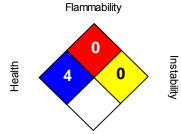
<sup>\*:</sup> Calculated RQ exceeds reasonably attainable upper limit.



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#### **Further information**

#### NFPA:



Special hazard.

#### HMIS III:

HEALTH	3
FLAMMABILITY	0
PHYSICAL HAZARD	2

0 = not significant, 1 = Slight, 2 = Moderate, 3 = High

4 = Extreme, \* = Chronic

#### **OSHA - GHS Label Information:**

Hazard pictograms







Signal word

Hazard statements

Extremely flammable aerosol. Contains gas under pressure; may explode if heated. Causes skin irritation. Causes serious eye irritation. May cause drowsiness or

Precautionary statements

Prevention: Keep aw ay from heat/sparks/open flames/hot surfaces. No smoking. Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use. Avoid breathing dust/fume/gas/mist/vapours/spray. Wash skin thoroughly after handling. Use only outdoors or in a well-ventilated area.

Wear protective gloves/ eye protection/ face protection.

Response: IF ON SKIN: Wash with plenty of soap and water. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If skin irritation occurs: Get medical advice/ attention. If eye irritation persists: Get medical advice/ attention. Take off contaminated clothing and wash before reuse.

Storage: Store in a well-ventilated place. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F.

Disposal: Dispose of contents/container in accordance with local regulation.

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Dimension™, Petro®, i-Chem®, TimeMist®, TimeWick™, MicrobeMax®, Country Vet®, Konk®, Original Bike Spirits®, Blue Coral®, Black Magic®, Rain-X®, Niagara National™, FC Forward Chemicals®,Rexodan®, Mykal™, and a number of private labeled brands.



## **ZEP BIG ORANGE\_5GL**

Version 3.0 Revision Date 01/22/2018 Print Date 08/29/2022

## **SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**

Material name : ZEP BIG ORANGE\_5GL

Material number : 00000000000041535

Manufacturer or supplier's details

Company : Zep Inc.

Address : 350 Joe Frank Harris Parkway, SE

Emerson, GA 30137

Telephone : 404-352-1680

## **Emergency telephone numbers**

For SDS Information : Compliance Services 1-877-428-9937

For a Medical Emergency : 877-541-2016 Toll Free - All Calls Recorded

For a Transportation : CHEMTREC: 800-424-9300 - All Calls Recorded.

**Emergency** In the District of Columbia 202-483-7616

#### Recommended use of the chemical and restrictions on use

Recommended use : Degreaser

## **SECTION 2. HAZARDS IDENTIFICATION**

## **Emergency Overview**

Appearance	liquid	
Colour	clear, orange	
Odour	strong	

## **GHS Classification**

Flammable liquids : Category 3
Skin irritation : Category 2
Eye irritation : Category 2A
Skin sensitisation : Category 1
Aspiration hazard : Category 1

**GHS** label elements

Hazard pictograms :





Signal word : Danger

Hazard statements : H226 Flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction. H319 Causes serious eye irritation.



## **ZEP BIG ORANGE\_5GL**

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Precautionary statements

#### : Prevention:

P210 Keep away from heat/sparks/open flames/hot surfaces.

No smoking.

P233 Keep container tightly closed.

P240 Ground/bond container and receiving equipment. P241 Use explosion-proof electrical/ ventilating/ lighting equipment.

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.

P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

P264 Wash skin thoroughly after handling.

P272 Contaminated work clothing should not be allowed out of the workplace.

P280 Wear protective gloves/ eye protection/ face protection.

#### Response:

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P331 Do NOT induce vomiting.

P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.

P337 + P313 If eye irritation persists: Get medical advice/attention.

P362 Take off contaminated clothing and wash before reuse. P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

#### Storage:

P403 + P235 Store in a well-ventilated place. Keep cool.

### Disposal:

P501 Dispose of contents/container in accordance with local regulation.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

#### Hazardous components

Chemical name	CAS-No.	Concentration [%]
d-limonene	5989-27-5	>= 70 - < 90
4-Nonylphenol branched, ethoxylated	127087-87-0	>= 5 - < 10
p-mentha-1,4-diene	99-85-4	>= 1 - < 5
linalool	78-70-6	>= 1 - < 5
7-methyl-3-methyleneocta-1,6-diene	123-35-3	>= 1 - < 5

The exact percentages of disclosed substances are withheld as trade secrets.

## **SECTION 4. FIRST AID MEASURES**

General advice : Move out of dangerous area.



## **ZEP BIG ORANGE 5GL**

Version 3.0 Revision Date 01/22/2018 Print Date 08/29/2022 Show this safety data sheet to the doctor in attendance. Do not leave the victim unattended. If inhaled If unconscious, place in recovery position and seek medical advice. If symptoms persist, call a physician. In case of skin contact : In case of contact, immediately flush skin with soap and plenty of water. If skin irritation persists, call a physician. In case of eye contact : Flush eyes with water at least 15 minutes. Get medical attention if eye irritation develops or persists. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. If swallowed Clean mouth with water and drink afterwards plenty of water. Keep respiratory tract clear. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. DO NOT induce vomiting unless directed to do so by a physician or poison control center. Most important symptoms Effects are immediate and delayed. and effects, both acute and Symptoms may include irritation, redness, pain, and rash. delayed Causes skin irritation. Causes serious eye irritation. Review section 2 of SDS to see all potential hazards.

## **SECTION 5. FIREFIGHTING MEASURES**

Notes to physician

Suitable extinguishing media : Alcohol-resistant foam

Carbon dioxide (CO2)

Dry chemical

Unsuitable extinguishing

media

: High volume water jet

Specific hazards during

firefighting

: Do not allow run-off from fire fighting to enter drains or water

courses.

Hazardous combustion

products

: Carbon dioxide (CO2) Carbon monoxide

Smoke

Specific extinguishing

methods

: Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment.

: Treat symptomatically. Symptoms may be delayed.

Further information : Collect contaminated fire extinguishing water separately. This

must not be discharged into drains.

Fire residues and contaminated fire extinguishing water must



## **ZEP BIG ORANGE 5GL**

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> be disposed of in accordance with local regulations. For safety reasons in case of fire, cans should be stored

separately in closed containments.

Use a water spray to cool fully closed containers.

Special protective equipment

for firefighters

: Wear self-contained breathing apparatus for firefighting if

necessary.

#### **SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and emergency procedures

: Use personal protective equipment. Remove all sources of ignition. Evacuate personnel to safe areas.

Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

Environmental precautions

: Prevent product from entering drains.

Prevent further leakage or spillage if safe to do so.

If the product contaminates rivers and lakes or drains inform

respective authorities.

Methods and materials for containment and cleaning up Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to

local / national regulations (see section 13).

## **SECTION 7. HANDLING AND STORAGE**

Advice on safe handling : Avoid exposure - obtain special instructions before use.

> Avoid contact with skin and eyes. For personal protection see section 8.

Smoking, eating and drinking should be prohibited in the

application area.

Take precautionary measures against static discharges. Provide sufficient air exchange and/or exhaust in work rooms. Open drum carefully as content may be under pressure. Dispose of rinse water in accordance with local and national regulations.

Persons susceptible to skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being

used.

Conditions for safe storage

No smoking.

Keep container tightly closed in a dry and well-ventilated

Containers which are opened must be carefully resealed and

kept upright to prevent leakage. Observe label precautions.

Electrical installations / working materials must comply with

the technological safety standards.

Materials to avoid Keep away from oxidizing agents and strongly acid or alkaline

materials.



## **ZEP BIG ORANGE\_5GL**

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#### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

## Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
d-limonene	5989-27-5	TWA	30 ppm	US WEEL

**Engineering measures** : effective ventilation in all processing areas

Personal protective equipment

Respiratory protection : In case of insufficient ventilation, wear suitable respiratory

equipment.

Hand protection

Material : Protective gloves

Remarks : The suitability for a specific workplace should be discussed

with the producers of the protective gloves.

Eye protection : Tightly fitting safety goggles

Wear face-shield and protective suit for abnormal processing

problems.

Skin and body protection : Impervious clothing

Choose body protection according to the amount and

concentration of the dangerous substance at the work place.

Hygiene measures : When using do not eat or drink.

When using do not smoke.

Wash hands before breaks and at the end of workday.

## **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance : liquid

Colour : clear, orange

Odour : strong

Odour Threshold : No data available pH : Not applicable Melting point/freezing point : No data available

Boiling point : 170 °C Flash point : 53.9 °C

Method: closed cup



## **ZEP BIG ORANGE\_5GL**

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Evaporation rate : < 1

Upper explosion limit : No data available Lower explosion limit : No data available

Vapour pressure : 2.533 hPa

Relative vapour density : No data available

Density : 0.864 g/cm3

Solubility(ies)

Water solubility : emulsifiable
Solubility in other solvents : Not applicable

Partition coefficient: n-

octanol/water

: No data available

Auto-ignition temperature : not determined

Thermal decomposition : No data available

Viscosity

Viscosity, kinematic : 3.8 mm2/s (20 °C)

## **SECTION 10. STABILITY AND REACTIVITY**

Reactivity : Stable

Chemical stability : Stable under normal conditions.

Possibility of hazardous

reactions

: Vapours may form explosive mixture with air.

No decomposition if stored and applied as directed.

Conditions to avoid : Extremes of temperature and direct sunlight.

Heat, flames and sparks.

Incompatible materials : Acids

Oxidizing agents

Hazardous decomposition

products

: Carbon monoxide, carbon dioxide and unburned

hydrocarbons (smoke). Nitrogen oxides (NOx)

## **SECTION 11. TOXICOLOGICAL INFORMATION**

## **Potential Health Effects**

Aggravated Medical

Condition

: None known.



## **ZEP BIG ORANGE\_5GL**

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Symptoms of Overexposure : Effects are immediate and delayed.

Symptoms may include irritation, redness, pain, and rash.

Carcinogenicity:

IARC No component of this product present at levels greater than or

equal to 0.1% is identified as probable, possible or confirmed

human carcinogen by IARC.

ACGIH No component of this product present at levels greater than or

equal to 0.1% is identified as a carcinogen or potential

carcinogen by ACGIH.

OSHA No component of this product present at levels greater than or

equal to 0.1% is on OSHA's list of regulated carcinogens.

NTP No component of this product present at levels greater than or

equal to 0.1% is identified as a known or anticipated carcinogen

by NTP.

Acute toxicity

**Product:** 

Acute oral toxicity : Acute toxicity estimate : > 5,000 mg/kg

Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate : > 5,000 mg/kg

Method: Calculation method

**Components:** 

d-limonene:

Acute oral toxicity : LD50 Oral Rat: 4,400 mg/kg

Acute dermal toxicity : LD50 Dermal Rabbit: > 5,000 mg/kg

4-Nonylphenol branched, ethoxylated:

Acute oral toxicity : LD50 Oral Rat: 16,000 mg/kg

Acute dermal toxicity : LD50 Rabbit: 2,573 mg/kg

7-methyl-3-methyleneocta-1,6-diene:

Acute oral toxicity : LD50 Oral Rat: > 5,000 mg/kg

Acute dermal toxicity : LD50 Dermal Rabbit: > 5,000 mg/kg

Skin corrosion/irritation

Product:

Remarks: Irritating to skin.

Serious eye damage/eye irritation

**Product:** 



## **ZEP BIG ORANGE\_5GL**

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Remarks: Severe eye irritation

## Respiratory or skin sensitisation

**Product:** 

Remarks: Causes sensitisation.

## Germ cell mutagenicity

No data available

Carcinogenicity

No data available

### Reproductive toxicity

No data available

STOT - single exposure

No data available

STOT - repeated exposure

No data available

Aspiration toxicity

No data available

#### **Further information**

**Product:** 

Remarks: Solvents may degrease the skin.

## **SECTION 12. ECOLOGICAL INFORMATION**

## **Ecotoxicity**

No data available

## Persistence and degradability

No data available

## Bioaccumulative potential

**Product:** 

octanol/water

Partition coefficient: n- : Remarks: No data available

## Mobility in soil

No data available

#### Other adverse effects

No data available



## **ZEP BIG ORANGE 5GL**

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Product:

Regulation 40 CFR Protection of Environment; Part 82 Protection of

Stratospheric Ozone - CAA Section 602 Class I

Substances

Remarks This product neither contains, nor was manufactured

with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A

+ B).

Additional ecological

information

: No data available

#### **SECTION 13. DISPOSAL CONSIDERATIONS**

#### Disposal methods

Waste from residues : The product should not be allowed to enter drains, water

courses or the soil.

Do not contaminate ponds, waterways or ditches with

chemical or used container.

Dispose of in accordance with local regulations.

Contaminated packaging : Empty remaining contents.

Dispose of as unused product. Do not re-use empty containers.

Do not burn, or use a cutting torch on, the empty drum.

## **SECTION 14. TRANSPORT INFORMATION**

Transportation Regulation: 49 CFR (USA):

NOT REGULATED AS DANGEROUS GOODS OR HAZARDOUS MATERIAL

Transportation Regulation: IMDG (Vessel):

UN1993, FLAMMABLE LIQUID, N.O.S., (D-LIMONENE), 3, III, MP: (D-LIMONENE)

Transportation Regulation: IATA (Cargo Air):

UN1993, Flammable liquid, n.o.s., (D-LIMONENE), 3, III, MP: (D-LIMONENE)

Transportation Regulation: IATA (Passenger Air):

UN1993, Flammable liquid, n.o.s., (D-LIMONENE), 3, III, MP: (D-LIMONENE)

Transportation Regulation: TDG (Canada):

NOT REGULATED AS DANGEROUS GOODS OR HAZARDOUS MATERIAL

The product as delivered to the customer conforms to packaging requirements for shipment by road under US Department of Transportation (DOT) regulations. Additional transportation classifications noted above are for reference only, and not a certification or warranty of the suitability of the packaging for shipment under these alternative transport regulations.



## **ZEP BIG ORANGE 5GL**

Version 3.0 Revision Date 01/22/2018 Print Date 08/29/2022

#### **SECTION 15. REGULATORY INFORMATION**

TSCA list : No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification

requirements.

## EPCRA - Emergency Planning and Community Right-to-Know Act

#### **CERCLA Reportable Quantity**

This material does not contain any components with a CERCLA RQ.

### SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards : Flammable (gases, aerosols, liquids, or solids)

Skin corrosion or irritation

Serious eye damage or eye irritation Respiratory or skin sensitisation

Aspiration hazard

SARA 302 : No chemicals in this material are subject to the reporting

requirements of SARA Title III, Section 302.

SARA 313 : This material does not contain any chemical components with

known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

#### California Prop. 65



WARNING: This product can expose you to chemicals including 7-methyl-3-methyleneocta-1,6-diene, which is/are known to the State of California to cause cancer. For more

information go to www.P65Warnings.ca.gov.

### The components of this product are reported in the following inventories:

**DSL** This product contains one or more components that are listed on the

Canadian NDSL. All other components are on the Canadian DSL.

TSCA On TSCA Inventory

For information on the country notification status for other regions please contact the manufacturer's regulatory group.

## Inventory Acronym and Validity Area Legend:

TSCA (USA), DSL (Canada), NDSL (Canada)



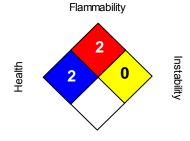
## **ZEP BIG ORANGE 5GL**

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#### **SECTION 16. OTHER INFORMATION**

#### **Further information**

## NFPA:



Special hazard.

#### HMIS III:

HEALTH	2
FLAMMABILITY	2
PHYSICAL HAZARD	0

0 = not significant, 1 = Slight,

2 = Moderate, 3 = High

4 = Extreme, \* = Chronic

#### **OSHA - GHS Label Information:**

Hazard pictograms







Signal word

Hazard statements

Danger:

Flammable liquid and vapour. May be fatal if sw allowed and enters airways. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation.

Precautionary statements

Prevention: Keep aw ay from heat/sparks/open flames/hot surfaces. No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Avoid breathing dust/fume/gas/ mist/ vapours/spray. Wash skin thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves/eye protection/ face protection.

Response: IF SWALLOWED: Immediately call a POISON CENTER/doctor. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with w ater/shower. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Do NOT induce vomiting. If skin irritation or rash occurs: Get medical advice/ attention. If eye irritation persists: Get medical advice/ attention. Take off contaminated clothing and w ash before reuse. In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

Storage: Store in a well-ventilated place. Keep cool.

**Disposal:** Dispose of contents/container in accordance with local regulation.

Version:	3.0
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## **ZEP BIG ORANGE\_5GL**

Version 3.0 Revision Date 01/22/2018 Print Date 08/29/2022

This SDS has been prepared by the Compliance Services organization supporting this manufacturer, supplier or distributor.

Zep Inc. markets products under well recognized and established brand names such as Zep®, Zep Commercial®,Zep Professional®, Enforcer®, National Chemical™, Selig™, Misty®, Next Dimension™, Petro®, i-Chem®, TimeMist®, TimeWick™, MicrobeMax®, Country Vet®, Konk®, Original Bike Spirits®, Blue Coral®, Black Magic®, Rain-X®, Niagara National™, FC Forward Chemicals®,Rexodan®, Mykal™, and a number of private labeled brands.

## ZEP NON-CHLORINATED BRAKE PARTS CLEANER ZAA730 20N14 12CT

Version 5.1 Revision Date 06/22/2020 Print Date 08/31/2022

#### SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Material name : ZEP NON-CHLORINATED BRAKE PARTS CLEANER

ZAA730 20N14 12CT

Material number : 0000000001047992

Manufacturer or supplier's details

Company : Zep Inc.

Address : 350 Joe Frank Harris Parkway, SE

Emerson, GA 30137

Telephone : 404-352-1680

## Emergency telephone numbers

For SDS Information : Compliance Services 1-877-428-9937
For a Medical Emergency : 877-541-2016 Toll Free - All Calls Recorded
For a Transportation : CHEMTREC: 800-424-9300 - All Calls Recorded.

**Emergency** In the District of Columbia 202-483-7616

#### Recommended use of the chemical and restrictions on use

Note: This product is labeled as a consumer product in accordance with the United States Consumer Product Safety Commission regulations. The warnings presented below in this Safety Data Sheet (SDS) comply with the 2012 OSHA Hazard Communication Standard (GHS - Globally Harmonized System of Classification and Labeling). The requirements for the labeling and warnings of consumer products may differ from those required for GHS based hazard communication.

## **SECTION 2. HAZARDS IDENTIFICATION**

### **Emergency Overview**

Appearance	Aerosol containing a compressed gas
Colour	clear
Odour	solvent-like

#### **GHS Classification**

Flammable aerosols : Category 1
Gases under pressure : Compressed gas
Eye irritation : Category 2A

Specific target organ toxicity - : Category 3 (Central nervous system)

single exposure

**GHS** label elements

Hazard pictograms







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## ZEP NON-CHLORINATED BRAKE PARTS CLEANER ZAA730 20N14 12CT

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Signal word : Danger

Hazard statements : H222 Extremely flammable aerosol.

H280 Contains gas under pressure; may explode if heated.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

Precautionary statements : **Prevention**:

P210 Keep away from heat, hot surfaces, sparks, open flames

and other ignition sources. No smoking.

P211 Do not spray on an open flame or other ignition source. P251 Pressurized container: Do not pierce or burn, even after

use.

P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

P264 Wash skin thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

P280 Wear eye protection/ face protection.

Response:

P304 + P340 + P312 IF INHALED: Remove person to fresh air

and keep comfortable for breathing. Call a POISON

CENTER/doctor if you feel unwell.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and

easy to do. Continue rinsing.

P337 + P313 If eye irritation persists: Get medical advice/

attention. Storage:

P410 + P412 Protect from sunlight. Do not expose to

temperatures exceeding 50 °C/ 122 °F.

P403 + P235 Store in a well-ventilated place. Keep cool.

Disposal:

P501 Dispose of contents/container in accordance with local

regulation.

#### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

## **Hazardous components**

Chemical name	CAS-No.	Concentration [%]
acetone	67-64-1	>= 70 - < 90
Naphtha (petroleum), hydrotreated light	64742-49-0	>= 5 - < 10
carbon dioxide	124-38-9	>= 5 - < 10

The exact percentages of disclosed substances are withheld as trade secrets.

#### **SECTION 4. FIRST AID MEASURES**

General advice : Move out of dangerous area.

Show this safety data sheet to the doctor in attendance.

## ZEP NON-CHLORINATED BRAKE PARTS CLEANER ZAA730 20N14 12CT

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Do not leave the victim unattended.

Get medical attention.

If inhaled : Consult a physician after significant exposure.

If unconscious, place in recovery position and seek medical

advice.

In case of skin contact : If skin irritation persists, call a physician.

Wash off immediately with plenty of water for at least 15

minutes.

Remove contaminated clothing and shoes. Wash contaminated clothing before re-use.

In case of eye contact : Remove contact lenses.

Protect unharmed eye.

Keep eye wide open while rinsing.

If eye irritation persists, consult a specialist.

Rinse immediately with plenty of water, also under the eyelids,

for at least 15 minutes.

If swallowed : Keep respiratory tract clear.

Never give anything by mouth to an unconscious person.

If symptoms persist, call a physician.

DO NOT induce vomiting unless directed to do so by a

physician or poison control center.

Most important symptoms

and effects, both acute and delayed

: Effects are dependent on exposure (dose, concentration,

contact time).

Effects are immediate and delayed.

Symptoms may include central nervous system depression,

resulting in headache, nausea and/or dizziness.

Causes serious eye irritation.
May cause drowsiness or dizziness.

Review section 2 of SDS to see all potential hazards.

Notes to physician : Treat symptomatically. Symptoms may be delayed.

#### **SECTION 5. FIREFIGHTING MEASURES**

Suitable extinguishing media : Alcohol-resistant foam

Carbon dioxide (CO2)

Dry chemical

Unsuitable extinguishing

media

: High volume water jet

Specific hazards during

firefighting

: Do not allow run-off from fire fighting to enter drains or water

courses.

Hazardous combustion

products

: Carbon dioxide (CO2)

Carbon monoxide

Smoke

Specific extinguishing : Use extinguishing measures that are appropriate to local

## ZEP NON-CHLORINATED BRAKE PARTS CLEANER ZAA730 20N14 12CT

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methods circumstances and the surrounding environment.

Further information : Collect contaminated fire extinguishing water separately. This

must not be discharged into drains.

Fire residues and contaminated fire extinguishing water must

be disposed of in accordance with local regulations. For safety reasons in case of fire, cans should be stored

separately in closed containments.

Use a water spray to cool fully closed containers.

Special protective equipment

for firefighters

: Wear self-contained breathing apparatus for firefighting if

necessary.

#### **SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.

Ensure adequate ventilation.
Remove all sources of ignition.
Evacuate personnel to safe areas.

Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

Environmental precautions

Prevent product from entering drains.

Prevent further leakage or spillage if safe to do so.

If the product contaminates rivers and lakes or drains, inform

respective authorities.

Methods and materials for containment and cleaning up

Soak up with inert absorbent material (e.g. sand, silica gel,

acid binder, universal binder, sawdust).

Sweep up or vacuum up spillage and collect in suitable

container for disposal.

## **SECTION 7. HANDLING AND STORAGE**

Advice on safe handling : Do not breathe vapours or spray mist.

Avoid exposure - obtain special instructions before use.

Avoid contact with skin and eyes. For personal protection see section 8.

Smoking, eating and drinking should be prohibited in the

application area.

Take precautionary measures against static discharges. Provide sufficient air exchange and/or exhaust in work rooms. Dispose of rinse water in accordance with local and national

regulations.

Always replace cap after use.

Conditions for safe storage

BEWARE: Aerosol is pressurized. Keep away from direct sun exposure and temperatures over 50 °C. Do not open by force or throw into fire even after use. Do not spray on flames or

red-hot objects. No smoking.

Keep in a dry, cool and well-ventilated place.

Observe label precautions.

## ZEP NON-CHLORINATED BRAKE PARTS CLEANER ZAA730 20N14 12CT

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Electrical installations / working materials must comply with

the technological safety standards.

Materials to avoid : Strong oxidizing agents

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

## Components with workplace control parameters

Components	CAS-No.	(Form of parameters / Permissible concentration		Basis
acetone	67-64-1	TWA	250 ppm	ACGIH
		STEL	500 ppm	ACGIH
		TWA	250 ppm 590 mg/m3	NIOSH REL
		TWA	1,000 ppm 2,400 mg/m3	OSHA Z-1
		TWA	750 ppm 1,800 mg/m3	OSHA P0
		STEL	1,000 ppm 2,400 mg/m3	OSHA P0
		STEL	750 ppm 1,780 mg/m3	CAL PEL
		С	3,000 ppm	CAL PEL
		PEL	500 ppm 1,200 mg/m3	CAL PEL
carbon dioxide	124-38-9	TWA	5,000 ppm	ACGIH
		STEL	30,000 ppm	ACGIH
		TWA	5,000 ppm 9,000 mg/m3	NIOSH REL
		ST	30,000 ppm 54,000 mg/m3	NIOSH REL
		TWA	5,000 ppm 9,000 mg/m3	OSHA Z-1
		TWA	10,000 ppm 18,000 mg/m3	OSHA P0
		STEL	30,000 ppm 54,000 mg/m3	OSHA P0
		PEL	5,000 ppm 9,000 mg/m3	CAL PEL
		STEL	30,000 ppm 54,000 mg/m3	CAL PEL

## Biological occupational exposure limits

Component	CAS-No.	Control	Biological	Sampling	Permissible	Basis
		parameters	specimen	time	concentration	
2-PROPANONE	67-64-1	Acetone	Urine	End of	25 mg/l	ACGIH BEI
				shift (As	-	
				soon as		
				possible		
				after		

## ZEP NON-CHLORINATED BRAKE PARTS CLEANER ZAA730 20N14 12CT

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exposure ceases)

**Engineering measures** : effective ventilation in all processing areas

Personal protective equipment

Respiratory protection : Use respiratory protection unless adequate local exhaust

ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines.

Hand protection

Material : Protective gloves

Remarks : The suitability for a specific workplace should be discussed

with the producers of the protective gloves.

Eye protection : Eye wash bottle with pure water

Wear face-shield and protective suit for abnormal processing

problems. Safety glasses

Skin and body protection : Impervious clothing

Choose body protection according to the amount and

concentration of the dangerous substance at the work place.

Hygiene measures : When using do not eat or drink.

When using do not smoke.

Wash hands before breaks and at the end of workday.

## **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance : Aerosol containing a compressed gas

Colour : clear

Odour : solvent-like

Odour Threshold : No data available pH : Not applicable Melting point/freezing point : No data available Boiling point : No data available

Flash point :

No data available

Evaporation rate : No data available

Flammability (solid, gas,

liquid)

: Extremely flammable aerosol.

Upper explosion limit : No data available Lower explosion limit : No data available

## ZEP NON-CHLORINATED BRAKE PARTS CLEANER ZAA730 20N14

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Vapour pressure : No data available
Relative vapour density : No data available
Density : 0.757 g/cm3

Solubility(ies)

Water solubility : No data available
Partition coefficient: n- : No data available

octanol/water

Auto-ignition temperature : not determined

Thermal decomposition : No data available

Viscosity

Viscosity, kinematic : No data available

Heat of combustion : 29.32 kJ/g

## **SECTION 10. STABILITY AND REACTIVITY**

Reactivity : Stable

Chemical stability : Stable under normal conditions.

Possibility of hazardous

reactions

Conditions to avoid : Heat, flames and sparks.

Extremes of temperature and direct sunlight.

: Vapours may form explosive mixture with air.

Incompatible materials : Oxidizing agents

Hazardous decomposition

products

: Carbon dioxide (CO2) Carbon monoxide

## **SECTION 11. TOXICOLOGICAL INFORMATION**

## **Potential Health Effects**

Aggravated Medical

Condition

: None known.

Symptoms of Overexposure : Effects are dependent on exposure (dose, concentration,

contact time).

Effects are immediate and delayed.

Symptoms may include central nervous system depression,

resulting in headache, nausea and/or dizziness.

Causes serious eye irritation.

## ZEP NON-CHLORINATED BRAKE PARTS CLEANER ZAA730 20N14 12CT

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May cause drowsiness or dizziness.

Review section 2 of SDS to see all potential hazards. Treat symptomatically. Symptoms may be delayed.

Carcinogenicity:

IARC No component of this product present at levels greater than or

equal to 0.1% is identified as probable, possible or confirmed

human carcinogen by IARC.

ACGIH No component of this product present at levels greater than or

equal to 0.1% is identified as a carcinogen or potential

carcinogen by ACGIH.

OSHA No component of this product present at levels greater than or

equal to 0.1% is on OSHA's list of regulated carcinogens.

NTP No component of this product present at levels greater than or

equal to 0.1% is identified as a known or anticipated carcinogen

by NTP.

## Acute toxicity

## **Components:**

acetone:

Acute oral toxicity : LD50 Rat: 5,800 mg/kg

Acute inhalation toxicity : LC50 Rat: 132 mg/l

Exposure time: 3 h

LC50 Rat: 50.1 mg/l

Acute dermal toxicity : LD50 Guinea pig: > 7,426 mg/kg

LD50 Rabbit: > 7,426 mg/kg

## Skin corrosion/irritation

## **Product:**

Remarks: May irritate skin.

## Serious eye damage/eye irritation

## Product:

Remarks: Severe eye irritation

## Respiratory or skin sensitisation

No data available

## Germ cell mutagenicity

No data available

#### Carcinogenicity

## ZEP NON-CHLORINATED BRAKE PARTS CLEANER ZAA730 20N14 12CT

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No data available

## Reproductive toxicity

No data available

STOT - single exposure

No data available

STOT - repeated exposure

No data available

Aspiration toxicity

No data available

## **Further information**

#### **Product:**

Remarks: Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting., Concentrations substantially above the TLV value may cause narcotic effects., Solvents may degrease the skin.

## **SECTION 12. ECOLOGICAL INFORMATION**

### **Ecotoxicity**

No data available

Persistence and degradability

No data available

Bioaccumulative potential

**Product:** 

Partition coefficient: n-

octanol/water

: Remarks: No data available

Mobility in soil

No data available

Other adverse effects

No data available

**Product:** 

Regulation 40 CFR Protection of Environment; Part 82 Protection of

Stratospheric Ozone - CAA Section 602 Class I

Substances

Remarks This product neither contains, nor was manufactured

with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A

## ZEP NON-CHLORINATED BRAKE PARTS CLEANER ZAA730 20N14 12CT

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+ B).

Additional ecological

information

: Not applicable

## **SECTION 13. DISPOSAL CONSIDERATIONS**

Disposal methods

Waste from residues : The product should not be allowed to enter drains, water

courses or the soil.

Do not contaminate ponds, waterways or ditches with

chemical or used container.

Dispose of in accordance with local regulations.

Contaminated packaging : Empty remaining contents.

Dispose of as unused product. Do not re-use empty containers.

Do not burn, or use a cutting torch on, the empty drum.

### **SECTION 14. TRANSPORT INFORMATION**

Transportation Regulation: 49 CFR (USA):

UN1950, AEROSOLS, FLAMMABLE, 2.1, - Limited quantity

Transportation Regulation: IMDG (Vessel):

UN1950, AEROSOLS, FLAMMABLE, 2.1, - Limited quantity

Transportation Regulation: IATA (Cargo Air):

UN1950, AEROSOLS, FLAMMABLE, 2.1, - Limited quantity

Transportation Regulation: IATA (Passenger Air):

UN1950, AEROSOLS, FLAMMABLE, 2.1, - Limited quantity

Transportation Regulation: TDG (Canada):

UN1950, AEROSOLS, FLAMMABLE, 2.1, - Limited quantity

The product as delivered to the customer conforms to packaging requirements for shipment by road under US Department of Transportation (DOT) regulations. Additional transportation classifications noted above are for reference only, and not a certification or warranty of the suitability of the packaging for shipment under these alternative transport regulations.

#### **SECTION 15. REGULATORY INFORMATION**

TSCA list : No substances are subject to a Significant New Use Rule.

## ZEP NON-CHLORINATED BRAKE PARTS CLEANER ZAA730 20N14 12CT

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No substances are subject to TSCA 12(b) export notification requirements.

## EPCRA - Emergency Planning and Community Right-to-Know Act

#### **CERCLA Reportable Quantity**

Components	CAS-No.	Component RQ	Calculated product RQ
		(lbs)	(lbs)
acetone	67-64-1	5000	*

<sup>\*:</sup> Calculated RQ exceeds reasonably attainable upper limit.

## SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards : Flammable (gases, aerosols, liquids, or solids)

Gases under pressure

Serious eye damage or eye irritation

Specific target organ toxicity (single or repeated exposure)

SARA 302 : No chemicals in this material are subject to the reporting

requirements of SARA Title III, Section 302.

SARA 313 : This material does not contain any chemical components with

known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

California Prop. 65

This product does not contain any chemicals known to State of

California to cause cancer, birth defects, or any other

reproductive harm.

## The components of this product are reported in the following inventories:

**DSL** All components of this product are on the Canadian DSL

TSCA On TSCA Inventory

For information on the country notification status for other regions please contact the manufacturer's regulatory group.

#### **Inventory Acronym and Validity Area Legend:**

TSCA (USA), DSL (Canada), NDSL (Canada)

#### **SECTION 16. OTHER INFORMATION**

## ZEP NON-CHLORINATED BRAKE PARTS CLEANER ZAA730 20N14 12CT

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#### **Further information**

#### NFPA:

HEALTH	2
FLAMMABILITY	4
INSTABILITY	0
SPECIAL HAZARD.	

0 = not significant, 1 =Slight,

2 = Moderate, 3 = High

4 = Extreme

#### HMIS III:

HEALTH	2
FLAMMABILITY	4
PHYSICAL HAZARD	3

0 = not significant, 1 =Slight,

2 = Moderate, 3 = High

4 = Extreme, \* = Chronic

## **OSHA - GHS Label Information:**

Hazard pictograms



Gas cy linder



Signal w ord

Hazard statements

Danger:

Extremely flammable aerosol. Contains gas under pressure; may explode if heated.

Causes serious eye irritation. May cause drowsiness or dizziness.

Precautionary statements

Prevention: Keep aw ay from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use. Avoid breathing dust/fume/ gas/mist/vapours/spray. Wash skin thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear eye protection/face protection.

Response: IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/ attention.

# SAFETY DATA SHEET ZEP NON-CHLORINATED BRAKE PARTS CLEANER ZAA730 20N14 12CT

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**Storage:** Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F. Store in a w ell-ventilated place. Keep cool.

**Disposal:** Dispose of contents/container in accordance with local regulation.

Version:	5.1
Revision Date:	06/22/2020
Print Date:	08/31/2022

We believe the statements, technical information and recommendations contained herein are reliable, but they are given without warranty or guarantee of any kind. The information in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. Users should make their own investigations to determine the suitability and applicability of the information for their particular purposes. This SDS has been prepared by the Compliance Services organization supporting this manufacturer, supplier or distributor.



## **ZEP CARB X - NEW AERO DZ**

Version 1.0 Revision Date 01/28/2015 Print Date 06/30/2016

## **SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**

Material name : ZEP CARB X - NEW AERO DZ

Material number : 0000000000021501

Manufacturer or supplier's details

Company : Zep Inc.

Address : 1310 Seaboard Industrial Blvd., NW

Atlanta, GA 30318

Telephone : 404-352-1680

## Emergency telephone numbers

For SDS Information : Compliance Services 1-877-428-9937

For a Medical Emergency : 877-541-2016 Toll Free - All Calls Recorded

For a Transportation : CHEMTREC: 800-424-9300 - All Calls Recorded.

**Emergency** In the District of Columbia 202-483-7616

#### SECTION 2. HAZARDS IDENTIFICATION

#### **Emergency Overview**

Appearance	Aerosol containing a compressed gas
Colour	colourless
Odour	strong, solvent-like

## **GHS Classification**

Flammable aerosols : Category 1
Gases under pressure : Compressed gas

Acute toxicity (Oral) : Category 4 Acute toxicity (Inhalation) : Category 4 Acute toxicity (Dermal) : Category 4 Skin irritation : Category 2 Serious eye damage : Category 1 Carcinogenicity : Category 2 Reproductive toxicity : Category 2 Specific target organ toxicity -: Category 1

single exposure

Specific target organ toxicity -

: Category 3 (Central nervous system)

single exposure

Specific target organ toxicity - : Category 2

repeated exposure

(Inhalation)

GHS Label element

Hazard pictograms :













## **ZEP CARB X - NEW AERO DZ**

Version 1.0 Revision Date 01/28/2015 Print Date 06/30/2016

Signal word : Danger

Hazard statements : H222 Extremely flammable aerosol.

H280 Contains gas under pressure; may explode if heated. H302 + H312 + H332 Harmful if swallowed, in contact with skin

or if inhaled

H315 Causes skin irritation.

H318 Causes serious eye damage.

H336 May cause drowsiness or dizziness.

H351 Suspected of causing cancer.

H361 Suspected of damaging fertility or the unborn child.

H370 Causes damage to organs.

H373 May cause damage to organs through prolonged or

repeated exposure if inhaled.

## Precautionary statements : I

#### : Prevention:

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P211 Do not spray on an open flame or other ignition source.

P211 Do not spray on an open flame or other ignition source.
P251 Pressurized container: Do not pierce or burn, even after

use.

P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.

P264 Wash skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P271 Use only outdoors or in a well-ventilated area.

P280 Wear eye protection/ face protection.

P280 Wear protective gloves/ protective clothing.

P281 Use personal protective equipment as required.

## Response:

P301 + P312 + P330 IF SWALLOWED: Call a POISON

CENTER or doctor/ physician if you feel unwell. Rinse mouth.

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

P302 + P352 + P312 IF ON SKIN: Wash with plenty of soap and water. Call a POISON CENTER or doctor/ physician if you

feel unwell.

P304 + P340 + P312 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/ physician if you feel unwell.

P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/ physician.

P307 + P311 IF exposed: Call a POISON CENTER or doctor/physician.

P332 + P313 If skin irritation occurs: Get medical advice/attention.

P362 Take off contaminated clothing and wash before reuse.

## Storage:

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

P410 + P412 Protect from sunlight. Do not expose to

temperatures exceeding 50 °C/ 122 °F.

## Disposal:

P501 Dispose of contents/container in accordance with local



## ZEP CARB X - NEW AERO DZ

Version 1.0 Revision Date 01/28/2015 Print Date 06/30/2016

regulation.

#### **Potential Health Effects**

Carcinogenicity:

IARC Group 2B: Possibly carcinogenic to humans

ethylbenzene 100-41-4

ACGIH Confirmed animal carcinogen with unknown relevance to

humans

ethylbenzene 100-41-4

OSHA No component of this product present at levels greater than or

equal to 0.1% is identified as a carcinogen or potential

carcinogen by OSHA.

NTP No component of this product present at levels greater than or

equal to 0.1% is identified as a known or anticipated carcinogen

by NTP.

#### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### **Hazardous components**

Chemical Name	CAS-No.	Concentration [%]
acetone	67-64-1	>= 30 - < 50
toluene	108-88-3	>= 20 - < 30
methanol	67-56-1	>= 10 - < 20
xylenes	1330-20-7	>= 5 - < 10
carbon dioxide	124-38-9	>= 5 - < 10
ethylbenzene	100-41-4	>= 1 - < 5

### **SECTION 4. FIRST AID MEASURES**

General advice : Consult a physician.

Show this safety data sheet to the doctor in attendance.

Do not leave the victim unattended.

If inhaled : Consult a physician after significant exposure.

If unconscious place in recovery position and seek medical

advice.

In case of skin contact : If skin irritation persists, call a physician.

Wash off immediately with plenty of water for at least 15

minutes.

If on clothes, remove clothes.

In case of eye contact : Remove contact lenses.

Protect unharmed eye.

Rinse thoroughly with plenty of water for at least 15 minutes

and consult a physician.

Keep eye wide open while rinsing.

If swallowed : Never give anything by mouth to an unconscious person.

If symptoms persist, call a physician.



Version 1.0 Revision Date 01/28/2015 Print Date 06/30/2016

DO NOT induce vomiting unless directed to do so by a

physician or poison control center.

#### **SECTION 5. FIREFIGHTING MEASURES**

Suitable extinguishing media : Alcohol-resistant foam

Carbon dioxide (CO2)

Dry chemical

Unsuitable extinguishing

media

: High volume water jet

Specific hazards during

firefighting

: Do not allow run-off from fire fighting to enter drains or water

courses.

Hazardous combustion

products

: Carbon dioxide (CO2)

Carbon monoxide

Smoke

Specific extinguishing

methods

: Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment.

Further information : Collect contaminated fire extinguishing water separately. This

must not be discharged into drains.

Fire residues and contaminated fire extinguishing water must

be disposed of in accordance with local regulations. For safety reasons in case of fire, cans should be stored

separately in closed containments.

Use a water spray to cool fully closed containers.

Special protective equipment

for firefighters

: Wear self-contained breathing apparatus for firefighting if

necessary.

#### **SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and emergency procedures Use personal protective equipment.

Ensure adequate ventilation.
Remove all sources of ignition.
Evacuate personnel to safe areas.

Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

Environmental precautions : Prevent product from entering drains.

Prevent further leakage or spillage if safe to do so.

If the product contaminates rivers and lakes or drains inform

respective authorities.

Methods and materials for containment and cleaning up

Soak up with inert absorbent material (e.g. sand, silica gel,

acid binder, universal binder, sawdust).

Sweep up or vacuum up spillage and collect in suitable

container for disposal.



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#### **SECTION 7. HANDLING AND STORAGE**

Advice on safe handling : Do not breathe vapours/dust.

Avoid contact with skin and eyes. For personal protection see section 8.

Smoking, eating and drinking should be prohibited in the

application area.

Provide sufficient air exchange and/or exhaust in work rooms. Open drum carefully as content may be under pressure.

Conditions for safe storage : BEWARE: Aerosol is pressurized. Keep away from direct sun

exposure and temperatures over 50 °C. Do not open by force or throw into fire even after use. Do not spray on flames or

red-hot objects. No smoking.

Keep container tightly closed in a dry and well-ventilated

place.

Containers which are opened must be carefully resealed and

kept upright to prevent leakage. Observe label precautions.

Electrical installations / working materials must comply with

the technological safety standards.

Materials to avoid : Oxidizing agents

Do not freeze.

#### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
acetone	67-64-1	TWA	500 ppm	ACGIH
		STEL	750 ppm	ACGIH
		TWA	250 ppm 590 mg/m3	NIOSH REL
		TWA	1,000 ppm 2,400 mg/m3	OSHA Z-1
		TWA	750 ppm 1,800 mg/m3	OSHA P0
		STEL	1,000 ppm 2,400 mg/m3	OSHA P0
toluene	108-88-3	TWA	20 ppm	ACGIH
		TWA	100 ppm 375 mg/m3	NIOSH REL
		ST	150 ppm 560 mg/m3	NIOSH REL
		TWA	200 ppm	OSHA Z-2
		CEIL	300 ppm	OSHA Z-2
		Peak	500 ppm	OSHA Z-2
		TWA	100 ppm 375 mg/m3	OSHA P0
		STEL	150 ppm	OSHA P0



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			560 mg/m3	
methanol	67-56-1	TWA	200 ppm	ACGIH
		STEL	250 ppm	ACGIH
		TWA	200 ppm	NIOSH REL
			260 mg/m3	
		ST	250 ppm	NIOSH REL
			325 mg/m3	
		TWA	200 ppm	OSHA Z-1
			260 mg/m3	
		STEL	250 ppm	OSHA P0
			325 mg/m3	
		TWA	200 ppm	OSHA P0
			260 mg/m3	
xylenes	1330-20-7	TWA	100 ppm	ACGIH
		STEL	150 ppm	ACGIH
carbon dioxide	124-38-9	TWA	5,000 ppm	ACGIH
		STEL	30,000 ppm	ACGIH
		TWA	5,000 ppm	NIOSH REL
			9,000 mg/m3	
		ST	30,000 ppm	NIOSH REL
			54,000 mg/m3	
		TWA	5,000 ppm	OSHA Z-1
			9,000 mg/m3	00114 00
		TWA	10,000 ppm	OSHA P0
		OTEL	18,000 mg/m3	OSHA P0
		STEL	30,000 ppm	OSHA PU
ather the area area	100 11 1	T) A / A	54,000 mg/m3	ACCILI
ethylbenzene	100-41-4	TWA STEL	100 ppm	ACGIH ACGIH
			125 ppm	
		TWA	100 ppm	NIOSH REL
		ST	435 mg/m3	NIOSH REL
		31	125 ppm	NIOSH KEL
		TWA	545 mg/m3 100 ppm	OSHA Z-1
		IVVA	435 mg/m3	USTA 2-1
		TWA	100 ppm	OSHA P0
		IVVA	435 mg/m3	USTA FU
		STEL	125 ppm	OSHA P0
		JILL	545 mg/m3	OSHA FU
			1 343 mg/m3	

### Biological occupational exposure limits

Component	CAS-No.	Control	Biological	Sampling	Permissible	Basis
		parameters	specimen	time	concentration	
2-PROPANONE	67-64-1	Acetone	Urine	End of	50 mg/l	ACGIH BEI
				shift (As		
				soon as		
				possible		
				after		
				exposure		
				ceases)		
METHYLBENZENE	108-88-3	Toluene	In blood	Prior to	0.02 mg/l	ACGIH BEI
				last shift		
				of		
				workwee		
				k		
METHYLBENZENE		Toluene	Urine	End of	0.03 mg/l	ACGIH BEI



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METHYLBENZENE  Remarks: Creatinine		o-Cresol	Urine	shift (As soon as possible after exposure ceases) End of shift (As soon as possible after exposure ceases)	0.3 mg/g	ACGIH BEI
Methanol	67-56-1	Methanol	Urine	End of shift (As soon as possible after exposure ceases)	15 mg/l	ACGIH BEI
ETHYLBENZENE	100-41-4	Sum of mandelic acid and phenyl glyoxylic acid	Urine	End of shift at end of workwee k	700 mg/g	ACGIH BEI
Remarks: Creatinine						
ETHYLBENZENE		Ethylbenzen e	In end- exhaled air	Not critical		ACGIH BEI

#### Personal protective equipment

Respiratory protection : In the case of vapour formation use a respirator with an

approved filter.

In the case of dust or aerosol formation use respirator with an

approved filter.

Hand protection

Remarks : The suitability for a specific workplace should be discussed

with the producers of the protective gloves.

Eye protection : Eye wash bottle with pure water

Tightly fitting safety goggles

Wear face-shield and protective suit for abnormal processing

problems.

Skin and body protection : impervious clothing

Choose body protection according to the amount and

concentration of the dangerous substance at the work place.

Hygiene measures : When using do not eat or drink.

When using do not smoke.

Wash hands before breaks and at the end of workday.



### **ZEP CARB X - NEW AERO DZ**

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#### **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance : Aerosol containing a compressed gas

Colour : colourless

Odour : strong, solvent-like
Odour Threshold : no data available
pH : not applicable
Melting point/freezing point : not applicable

Boiling point : 132 °C

Flash point

not applicable

Evaporation rate : no data available
Upper explosion limit : not applicable
Lower explosion limit : not applicable
Vapour pressure : no data available
Relative vapour density : no data available
Density : 0.814 g/cm3

Solubility(ies)

Water solubility : insoluble

Partition coefficient: n-

octanol/water

: no data available

Auto-ignition temperature : not determined

Thermal decomposition : no data available

Viscosity

Viscosity, kinematic : no data available

### **SECTION 10. STABILITY AND REACTIVITY**

Reactivity : Stable

Chemical stability : Stable under normal conditions.

Possibility of hazardous

reactions

: Vapours may form explosive mixture with air.

Conditions to avoid : Heat, flames and sparks.

Incompatible materials : Oxidizing agents

Hazardous decomposition

products

Carbon oxides
Organic Substances



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#### **SECTION 11. TOXICOLOGICAL INFORMATION**

#### Acute toxicity

**Product:** 

Acute oral toxicity : Acute toxicity estimate : 801.21 mg/kg

Method: Calculation method

Acute inhalation toxicity : Acute toxicity estimate : 3 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate : 1,995 mg/kg

Method: Calculation method

#### Skin corrosion/irritation

**Product:** 

Remarks: Irritating to skin.

#### Serious eye damage/eye irritation

**Product:** 

Remarks: May cause irreversible eye damage.

#### Respiratory or skin sensitisation

no data available

#### Germ cell mutagenicity

no data available

#### Carcinogenicity

no data available

#### Reproductive toxicity

no data available

acetone:

toluene:

methanol:

xylenes:

carbon dioxide:

ethylbenzene:

#### STOT - single exposure

no data available

#### STOT - repeated exposure

no data available

#### Aspiration toxicity

no data available



### ZEP CARB X - NEW AERO DZ

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#### **Further information**

#### **Product:**

Remarks: Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting., Concentrations substantially above the TLV value may cause narcotic effects., Solvents may degrease the skin.

: Remarks: no data available

#### **SECTION 12. ECOLOGICAL INFORMATION**

#### **Ecotoxicity**

no data available

### Persistence and degradability

no data available

### **Bioaccumulative potential**

**Product:** 

Partition coefficient: n-

octanol/water Components:

toluene:

Partition coefficient: n-

octanol/water

xylenes:

Partition coefficient: n-

octanol/water ethylbenzene:

Partition coefficient: n-

octanol/water

: Pow: 3.12

: Pow: 2.73

: Pow: 3.6

#### Mobility in soil

no data available

#### Other adverse effects

no data available

**Product:** 

Regulation 40 CFR Protection of Environment; Part 82 Protection of

Stratospheric Ozone - CAA Section 602 Class I

Substances

Remarks This product neither contains, nor was manufactured

with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A

+ B).

Additional ecological

information

: An environmental hazard cannot be excluded in the

event of unprofessional handling or disposal., Harmful to

aquatic life.



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#### **SECTION 13. DISPOSAL CONSIDERATIONS**

Disposal methods

Waste from residues : The product should not be allowed to enter drains, water

courses or the soil.

Do not contaminate ponds, waterways or ditches with

chemical or used container.

Dispose of in accordance with local regulations.

Contaminated packaging : Empty remaining contents.

Dispose of as unused product. Do not re-use empty containers.

Do not burn, or use a cutting torch on, the empty drum.

#### **SECTION 14. TRANSPORT INFORMATION**

#### International regulation

**IATA-DGR** 

UN/ID No. : 1950

Proper shipping name : Aerosols, flammable

Class : 2.1

Packing group : Not Assigned

Labels : 2.1 Packing instruction (cargo : 203

aircraft)

Packing instruction : 203

(passenger aircraft)

**IMDG-Code** 

UN number : 1950

Proper shipping name : AEROSOLS

Class : 2.1

Packing group : Not Assigned

Labels : 2.1

EmS Code : F-D, S-U

Marine pollutant : no

#### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

### **National Regulations**

**49 CFR** 

UN/ID/NA number : 1950
Proper shipping name : Aerosols

Class : 2.1

Packing group : Not Assigned

Labels : 2.1



### ZEP CARB X - NEW AERO DZ

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ERG Code : 126 Marine pollutant : no

### Special precautions for user

not applicable

#### **SECTION 15. REGULATORY INFORMATION**

#### **EPCRA - Emergency Planning and Community Right-to-Know Act**

#### **CERCLA Reportable Quantity**

Components	CAS-No.	Component RQ	Calculated product RQ
		(lbs)	(lbs)
xylenes	1330-20-7	100	1067

#### SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards : Fire Hazard

Sudden Release of Pressure Hazard

Acute Health Hazard Chronic Health Hazard

SARA 302 : SARA 302: No chemicals in this material are subject to the

reporting requirements of SARA Title III, Section 302.

SARA 313 : The following components are subject to reporting levels

established by SARA Title III, Section 313:

toluene 108-88-3 20 % methanol 67-56-1 12.4812 % ethylbenzene 100-41-4 3.125 %

California Prop 65 WARNING! This product contains a chemical known to the

State of California to cause cancer.

ethylbenzene 100-41-4

WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive

harm.

toluene 108-88-3 methanol 67-56-1

### The components of this product are reported in the following inventories:

TSCA On TSCA Inventory

All components of this product are on the Canadian DSL.

AICS
On the inventory, or in compliance with the inventory

NZIOC
On the inventory, or in compliance with the inventory

PICCS
On the inventory, or in compliance with the inventory



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**IECSC** 

On the inventory, or in compliance with the inventory

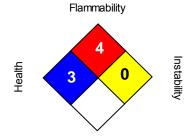
#### **Inventory Acronym and Validity Area Legend:**

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIOC (New Zealand), PICCS (Philippines), TSCA (USA)

#### **SECTION 16. OTHER INFORMATION**

#### **Further information**

NFPA:



Special hazard.

#### HMIS III:

HEALTH	3*
FLAMMABILITY	4
PHYSICAL HAZARD	2

0 = not significant, 1 = Slight,

2 = Moderate, 3 = High

4 = Extreme, \* = Chronic

#### OSHA GHS Label Information:

Hazard pictograms











Signal word Hazard statements Danger:

Extremely flammable aerosol. Contains gas under pressure; may explode if heated. Harmful if sw allowed, in contact with skin or if inhaled Causes skin irritation. Causes serious eye damage. May cause drow siness or dizziness. Suspected of causing cancer. Suspected of damaging fertility or the unborn child. Causes damage to organs. May cause damage to organs through prolonged or repeated exposure if inhaled.

Precautionary statements

**Prevention:** Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep aw ay fromheat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use. Do not breathe dust/fume/gas/ mist/ vapours/ spray. Wash skin thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Wear eye protection/face protection. Wear protective gloves/ protective clothing. Use personal protective equipment as required.

Response: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unw ell. Rinse mouth. IF ON SKIN: Wash with plenty of soap and w ater. IF ON SKIN: Wash with plenty of soap and w ater. Call a POISON CENTER or doctor/physician if you feel unw ell. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unw ell. IF IN EYES: Rinse cautiously with waterfor several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician. IF exposed: Call a POISON CENTER or doctor/physician. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and w ash before reuse.

**Storage:** Store in a w ell-ventilated place. Keep container tightly closed. Store locked up. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F.



### **ZEP CARB X - NEW AERO DZ**

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Disposal: Dispose of contents/container in accordance with local regulation.

We believe the statements, technical information and recommendations contained herein are reliable, but they are given without warranty or guarantee of any kind. The information in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. Users should make their own investigations to determine the suitability and applicability of the information for their particular purposes. This SDS has been prepared by the Compliance Services organization supporting this manufacturer, supplier or distributor.

Zep Inc. markets products under well recognized and established brand names such as Zep®, Zep Commercial®,Zep Professional®, Enforcer®, National Chemical™, Selig™, Misty®, Next Dimension™, Petro®, i-Chem®, TimeMist®, TimeWick™, MicrobeMax®, Country Vet®, Konk®, Original Bike Spirits®, Blue Coral®, Black Magic®, Rain-X®, Niagara National™, FC Forward Chemicals®,Rexodan®, Mykal™, and a number of private labeled brands.



### ZEP FORMULA 7961 275GL

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#### **SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**

Material name : ZEP FORMULA 7961\_275GL

Material number : 0000000000109889

Manufacturer or supplier's details

Company : Zep Inc.

Address : 350 Joe Frank Harris Parkway, SE

Emerson, GA 30137

Telephone : 404-352-1680

### Emergency telephone numbers

For SDS Information : Compliance Services 1-877-428-9937

For a Medical Emergency : 877-541-2016 Toll Free - All Calls Recorded
For a Transportation : CHEMTREC: 800-424-9300 - All Calls Recorded.

**Emergency** In the District of Columbia 202-483-7616

Recommended use of the chemical and restrictions on use

Recommended use : Specialty Cleaner and Remover

#### **SECTION 2. HAZARDS IDENTIFICATION**

#### **Emergency Overview**

Appearance	liquid	
Colour	colourless, clear	
Odour	mild	

#### **GHS Classification**

Skin corrosion : Category 1 Serious eye damage : Category 1

**GHS** label elements

Hazard pictograms :



Signal word : Danger

Hazard statements : H314 Causes severe skin burns and eye damage.

Precautionary statements : Prevention:

P264 Wash skin thoroughly after handling.

P280 Wear protective gloves/ protective clothing/ eye

protection/ face protection.

Response:

P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT

induce vomiting.



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P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with

water/shower.

P304 + P340 + P310 IF INHALED: Remove person to fresh air

and keep comfortable for breathing. Immediately call a

POISON CENTER/doctor.

P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.

P363 Wash contaminated clothing before reuse.

Disposal:

P501 Dispose of contents/container in accordance with local

regulation.

#### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

#### **Hazardous components**

Chemical name	CAS-No.	Concentration [%]
orthophosphoric acid	7664-38-2	>= 30 - < 50
Alcohols, C9-11, ethoxylated	68439-46-3	>= 1 - < 3

The exact percentages of disclosed substances are withheld as trade secrets.

#### **SECTION 4. FIRST AID MEASURES**

General advice : Move out of dangerous area.

Get medical attention immediately.

Show this safety data sheet to the doctor in attendance.

Do not leave the victim unattended.

If inhaled : If unconscious, place in recovery position and seek medical

advice.

If symptoms persist, call a physician.

In case of skin contact : Immediate medical treatment is necessary as untreated

wounds from corrosion of the skin heal slowly and with

difficulty.

Wash off immediately with plenty of water for at least 15

minutes.

Remove contaminated clothing and shoes. Wash contaminated clothing before reuse. If skin irritation persists, call a physician.

In case of eye contact : Small amounts splashed into eyes can cause irreversible

tissue damage and blindness.

Rinse immediately with plenty of water, also under the eyelids,

for at least 15 minutes. Remove contact lenses. Protect unharmed eye.



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Keep eye wide open while rinsing.

If eye irritation persists, consult a specialist.

If swallowed : Keep respiratory tract clear.

DO NOT induce vomiting unless directed to do so by a

physician or poison control center.

Never give anything by mouth to an unconscious person.

If symptoms persist, call a physician. Take victim immediately to hospital.

Most important symptoms and effects, both acute and

delayed

: Effects are immediate and delayed.

Symptoms may include blistering, irritation, burns, and pain. Effects are dependent on exposure (dose, concentration,

contact time).

Causes severe skin burns and eye damage.

Review section 2 of SDS to see all potential hazards.

Notes to physician : Treat symptomatically. Symptoms may be delayed.

#### **SECTION 5. FIREFIGHTING MEASURES**

Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or

carbon dioxide.

Unsuitable extinguishing

media

: High volume water jet

Specific hazards during

firefighting

: Do not allow run-off from fire fighting to enter drains or water

courses.

Hazardous combustion

products

Carbon dioxide (CO2)

Carbon monoxide

Smoke

Phosphorus compounds

Specific extinguishing

methods

Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment.

Further information : Standard procedure for chemical fires.

Fire residues and contaminated fire extinguishing water must

be disposed of in accordance with local regulations.

Collect contaminated fire extinguishing water separately. This

must not be discharged into drains.

Special protective equipment

for firefighters

Wear self-contained breathing apparatus for firefighting if

necessary.

#### SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.

Environmental precautions : Prevent product from entering drains.

Prevent further leakage or spillage if safe to do so.



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If the product contaminates rivers and lakes or drains, inform

respective authorities.

Methods and materials for containment and cleaning up

: Neutralize with chalk, alkali solution or ammonia.

Soak up with inert absorbent material (e.g. sand, silica gel,

acid binder, universal binder, sawdust).

Keep in suitable, closed containers for disposal.

#### **SECTION 7. HANDLING AND STORAGE**

Advice on safe handling : Do not breathe vapours/dust.

Avoid contact with skin and eyes. For personal protection see section 8.

Smoking, eating and drinking should be prohibited in the

application area.

To avoid spills during handling keep bottle on a metal tray. Dispose of rinse water in accordance with local and national

regulations.

Conditions for safe storage : Keep container tightly closed in a dry and well-ventilated

place.

Observe label precautions.

Electrical installations / working materials must comply with

the technological safety standards.

Materials to avoid : Keep away from oxidizing agents and strongly acid or alkaline

materials.

Do not freeze.

#### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
orthophosphoric acid	7664-38-2	TWA	1 mg/m3	ACGIH
		STEL	3 mg/m3	ACGIH
		TWA	1 mg/m3	NIOSH REL
		ST	3 mg/m3	NIOSH REL
		TWA	1 mg/m3	OSHA Z-1
		TWA	1 mg/m3	OSHA P0
		STEL	3 mg/m3	OSHA P0
		PEL	1 mg/m3	CAL PEL
		STEL	3 mg/m3	CAL PEL

**Engineering measures** : effective ventilation in all processing areas

Personal protective equipment

Respiratory protection : Use respiratory protection unless adequate local exhaust



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ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines.

Hand protection

Material : Protective gloves

Remarks : The suitability for a specific workplace should be discussed

with the producers of the protective gloves.

Eye protection : Access to clean water to rinse eyes must be available, options

include: eye wash stations or showers, or eye wash bottles

with pure water.

Tightly fitting safety goggles

Wear face-shield and protective suit for abnormal processing

problems.

Skin and body protection : Impervious clothing

Choose body protection according to the amount and

concentration of the dangerous substance at the work place.

Hygiene measures : When using do not eat or drink.

When using do not smoke.

Wash hands before breaks and at the end of workday.

#### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid

Colour : colourless, clear

Odour : mild

Odour Threshold : No data available

pH : 1 - 1.5

Melting point/freezing point : No data available

Boiling point : 107.22 °C

Flash point

Not applicable

Evaporation rate : 1

Upper explosion limit : No data available
Lower explosion limit : No data available
Vapour pressure : Not applicable
Relative vapour density : No data available
Density : 1.259 g/cm3

Solubility(ies)

Water solubility : soluble

Partition coefficient: n- : No data available



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octanol/water

Auto-ignition temperature : not determined

Thermal decomposition : No data available

Viscosity

Viscosity, kinematic : 6.0 mm2/s (20 °C)

#### **SECTION 10. STABILITY AND REACTIVITY**

Reactivity : Stable

Chemical stability : Stable under normal conditions.

Possibility of hazardous

reactions

: No dangerous reaction known under conditions of normal use.

Conditions to avoid : Extremes of temperature and direct sunlight.

Incompatible materials : Bases

Oxidizing agents

Hazardous decomposition

products

: Carbon oxides

Phosphorus compounds

#### **SECTION 11. TOXICOLOGICAL INFORMATION**

#### **Potential Health Effects**

Aggravated Medical

Condition

: None known.

Symptoms of Overexposure : Effects are immediate and delayed.

Symptoms may include blistering, irritation, burns, and pain. Effects are dependent on exposure (dose, concentration,

contact time).

Carcinogenicity:

IARC No component of this product present at levels greater than or

equal to 0.1% is identified as probable, possible or confirmed

human carcinogen by IARC.

ACGIH No component of this product present at levels greater than or

equal to 0.1% is identified as a carcinogen or potential

carcinogen by ACGIH.

OSHA No component of this product present at levels greater than or

equal to 0.1% is on OSHA's list of regulated carcinogens.

NTP No component of this product present at levels greater than or

equal to 0.1% is identified as a known or anticipated carcinogen

by NTP.



### ZEP FORMULA 7961\_275GL

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#### Acute toxicity

**Product:** 

Acute oral toxicity : Acute toxicity estimate : > 5,000 mg/kg

Method: Calculation method

**Components:** 

Alcohols, C9-11, ethoxylated:

Acute oral toxicity : LD50 Oral Rat: 1,400 mg/kg

Skin corrosion/irritation

**Product:** 

Remarks: Extremely corrosive and destructive to tissue.

Serious eye damage/eye irritation

**Product:** 

Remarks: May cause irreversible eye damage.

Respiratory or skin sensitisation

No data available

Germ cell mutagenicity

No data available

Carcinogenicity

No data available

Reproductive toxicity

No data available

STOT - single exposure

No data available

STOT - repeated exposure

No data available

Aspiration toxicity

No data available

**Further information** 

**Product:** 

Remarks: No data available



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#### **SECTION 12. ECOLOGICAL INFORMATION**

**Ecotoxicity** 

No data available

Persistence and degradability

No data available

**Bioaccumulative potential** 

**Product:** 

Partition coefficient: n-

octanol/water

: Remarks: No data available

Mobility in soil

No data available

Other adverse effects

No data available

**Product:** 

Regulation 40 CFR Protection of Environment; Part 82 Protection of

Stratospheric Ozone - CAA Section 602 Class I

Substances

Remarks This product neither contains, nor was manufactured

with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A

+ B).

Additional ecological

information

: No data available

#### **SECTION 13. DISPOSAL CONSIDERATIONS**

Disposal methods

Waste from residues : Do not dispose of waste into sewer.

Do not contaminate ponds, waterways or ditches with

chemical or used container.

Dispose of in accordance with local regulations.

Contaminated packaging : Empty remaining contents.

Dispose of as unused product. Do not re-use empty containers.

#### **SECTION 14. TRANSPORT INFORMATION**

Transportation Regulation: 49 CFR (USA):

UN3264, Corrosive liquid, acidic, inorganic, n.o.s., (PHOSPHORIC ACID), 8, III



### ZEP FORMULA 7961\_275GL

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Transportation Regulation: IMDG (Vessel):

UN3264, CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S., (PHOSPHORIC ACID), 8, III

Transportation Regulation: IATA (Cargo Air):

UN3264, Corrosive liquid, acidic, inorganic, n.o.s., (PHOSPHORIC ACID), 8, III

Transportation Regulation: IATA (Passenger Air):

UN3264, Corrosive liquid, acidic, inorganic, n.o.s., (PHOSPHORIC ACID), 8, III

Transportation Regulation: TDG (Canada):

UN3264, CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S., (PHOSPHORIC ACID), 8, III

The product as delivered to the customer conforms to packaging requirements for shipment by road under US Department of Transportation (DOT) regulations. Additional transportation classifications noted above are for reference only, and not a certification or warranty of the suitability of the packaging for shipment under these alternative transport regulations.

#### **SECTION 15. REGULATORY INFORMATION**

TSCA list : No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification

requirements.

### EPCRA - Emergency Planning and Community Right-to-Know Act

#### **CERCLA Reportable Quantity**

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
orthophosphoric acid	7664-38-2	5000	*

<sup>\*:</sup> Calculated RQ exceeds reasonably attainable upper limit.

### SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards : Skin corrosion or irritation

Serious eye damage or eye irritation

SARA 302 : No chemicals in this material are subject to the reporting

requirements of SARA Title III, Section 302.

SARA 313 : This material does not contain any chemical components with

known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

California Prop. 65

This product does not contain any chemicals known to State of

California to cause cancer, birth defects, or any other



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reproductive harm.

#### The components of this product are reported in the following inventories:

**DSL** All components of this product are on the Canadian DSL

TSCA On TSCA Inventory

For information on the country notification status for other regions please contact the manufacturer's regulatory group.

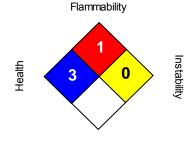
#### **Inventory Acronym and Validity Area Legend:**

TSCA (USA), DSL (Canada), NDSL (Canada)

#### **SECTION 16. OTHER INFORMATION**

#### **Further information**

NFPA:



Special hazard.

#### HMIS III:

HEALTH	3
FLAMMABILITY	1
PHYSICAL HAZARD	0

0 = not significant, 1 = Slight,

2 = Moderate, 3 = High

4 = Extreme, \* = Chronic

#### **OSHA - GHS Label Information:**

Hazard pictograms



Signal w ord Hazard statements Precautionary statements Danger:

Causes severe skin burns and eye damage.

**Prevention:** Wash skin thoroughly after handling. Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor. Wash contaminated clothing before

reuse.

**Disposal:** Dispose of contents/container in accordance with local regulation.



### ZEP FORMULA 7961 275GL

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Print Date:	08/29/2022

We believe the statements, technical information and recommendations contained herein are reliable, but they are given without warranty or guarantee of any kind. The information in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. Users should make their own investigations to determine the suitability and applicability of the information for their particular purposes. This SDS has been prepared by the Compliance Services organization supporting this manufacturer, supplier or distributor.

Zep Inc. markets products under well recognized and established brand names such as Zep®, Zep Commercial®,Zep Professional®, Enforcer®, National Chemical™, Selig™, Misty®, Next Dimension™, Petro®, i-Chem®, TimeMist®, TimeWick™, MicrobeMax®, Country Vet®, Konk®, Original Bike Spirits®, Blue Coral®, Black Magic®, Rain-X®, Niagara National™, FC Forward Chemicals®,Rexodan®, Mykal™, and a number of private labeled brands.

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#### SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Material name : ZEP INDUSTRIAL PURPLE DEGREASER & CLEANER

Material number : R42310

Manufacturer or supplier's details

Company : Zep Inc.

Address : 350 Joe Frank Harris Parkway, SE

Emerson, GA 30137

Telephone : 404-352-1680

#### **Emergency telephone numbers**

For SDS Information : Compliance Services 1-877-428-9937

For a Medical Emergency : 877-541-2016 Toll Free - All Calls Recorded

For a Transportation : CHEMTREC: 800-424-9300 - All Calls Recorded.

Emergency In the District of Columbia 202-483-7616

#### Recommended use of the chemical and restrictions on use

Note: This product is labeled as a consumer product in accordance with the United States Consumer Product Safety Commission regulations. The warnings presented below in this Safety Data Sheet (SDS) comply with the 2012 OSHA Hazard Communication Standard (GHS - Globally Harmonized System of Classification and Labeling). The requirements for the labeling and warnings of consumer products may differ from those required for GHS based hazard communication.

#### **SECTION 2. HAZARDS IDENTIFICATION**

#### **Emergency Overview**

Appearance	liquid
Colour	clear, purple
Odour	characteristic

#### **GHS Classification**

Skin corrosion : Category 1 Serious eye damage : Category 1

**GHS** label elements

Hazard pictograms

Corrosion

Signal word : Danger

Hazard statements : H314 Causes severe skin burns and eye damage.

Precautionary statements : **Prevention:** 

P264 Wash skin thoroughly after handling.

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P280 Wear protective gloves/ protective clothing/ eye

protection/ face protection.

Response:

P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT

induce vomiting.

P303 + P361 + P353 IF ON SKIN (or hair): Take off

immediately all contaminated clothing. Rinse skin with water. P304 + P340 + P310 IF INHALED: Remove person to fresh air

and keep comfortable for breathing. Immediately call a

POISON CENTER/doctor.

 $\begin{array}{l} {\sf P305+P351+P338+P310\;IF\;IN\;EYES: Rinse\;cautiously\;with}\\ {\sf water\;for\;several\;minutes.\;Remove\;\;contact\;lenses, if\;present}\\ {\sf and\;easy\;to\;do.\;Continue\;rinsing.\;lmmediately\;call\;a\;POISON} \end{array}$ 

CENTER/doctor.

P363 Wash contaminated clothing before reuse.

Disposal:

P501 Dispose of contents/container in accordance with local

regulation.

#### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

#### **Hazardous components**

Chemical name	CAS-No.	Concentration [%]
Alcohols, C9-11, ethoxylated	68439-46-3	>= 1 - < 5
Oxirane, methyl-, polymer with oxirane, mono(2-ethylhexyl) ether	64366-70-7	>= 1 - < 5

The exact percentages of disclosed substances are withheld as trade secrets.

#### **SECTION 4. FIRST AID MEASURES**

General advice : Move out of dangerous area.

Get medical attention.

Show this safety data sheet to the doctor in attendance.

Do not leave the victim unattended.

If inhaled : If unconscious, place in recovery position and seek medical

advice.

If symptoms persist, call a physician.

In case of skin contact : Wash off immediately with plenty of water for at least 15

minutes.

Remove contaminated clothing and shoes. Wash contaminated clothing before reuse. If skin irritation persists, call a physician.

In case of eye contact : Rinse immediately with plenty of water for at least 15 minutes.

Remove contact lenses. Protect unharmed eye.

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Keep eye wide open while rinsing.

If eye irritation persists, consult a specialist.

If swallowed : Keep respiratory tract clear.

DO NOT induce vomiting unless directed to do so by a

physician or poison control center.

Do not give milk or alcoholic beverages.

Never give anything by mouth to an unconscious person.

Take victim immediately to hospital.

Most important symptoms and effects, both acute and

Effects are dependent on exposure (dose, concentration,

contact time).

Effects are immediate and delayed.

Symptoms may include blistering, irritation, burns, and pain.

Causes severe skin burns and eye damage.

Review section 2 of SDS to see all potential hazards.

Notes to physician : Treat symptomatically. Symptoms may be delayed.

#### **SECTION 5. FIREFIGHTING MEASURES**

Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or

carbon dioxide.

Unsuitable extinguishing

media

delayed

: High volume water jet

Specific hazards during

firefighting

: Do not allow run-off from fire fighting to enter drains or water

courses.

Hazardous combustion

products

: Carbon dioxide (CO2)

Carbon monoxide

Smoke

Specific extinguishing

methods

: Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment.

Further information : Collect contaminated fire extinguishing water separately. This

must not be discharged into drains.

Fire residues and contaminated fire extinguishing water must

be disposed of in accordance with local regulations.

Standard procedure for chemical fires.

Special protective equipment

for firefighters

: Wear self-contained breathing apparatus for firefighting if

necessary.

#### SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures Environmental precautions

: Use personal protective equipment.

: Prevent product from entering drains.

Prevent further leakage or spillage if safe to do so.

If the product contaminates rivers and lakes or drains, inform

### ZEP INDUSTRIAL PURPLE DEGREASER & CLEANER

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respective authorities.

Methods and materials for containment and cleaning up

: Soak up with inert absorbent material (e.g. sand, silica gel,

acid binder, universal binder, sawdust).

Keep in suitable, closed containers for disposal.

#### **SECTION 7. HANDLING AND STORAGE**

Advice on safe handling : Do not breathe vapours or spray mist.

Avoid contact with skin and eyes. For personal protection see section 8.

Smoking, eating and drinking should be prohibited in the

application area.

Dispose of rinse water in accordance with local and national

regulations.

Conditions for safe storage : Keep container tightly closed in a dry and well-ventilated

place.

Observe label precautions.

Electrical installations / working materials must comply with

the technological safety standards.

Materials to avoid : Do not store near acids.

#### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters

Contains no substances with occupational exposure limit values.

**Engineering measures** : effective ventilation in all processing areas

### Personal protective equipment

Respiratory protection : No personal respiratory protective equipment normally

required.

Hand protection

Material : Protective gloves

Remarks : The suitability for a specific workplace should be discussed

with the producers of the protective gloves.

Eye protection : Access to clean water to rinse eyes must be available, options

include: eye wash stations or showers, or eye wash bottles

with pure water.

Wear safety glasses with side shields or goggles.

Skin and body protection : Impervious clothing

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Hygiene measures : When using do not eat or drink.

### ZEP INDUSTRIAL PURPLE DEGREASER & CLEANER

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When using do not smoke.

Wash hands before breaks and at the end of workday.

#### **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance : liquid

Colour : clear, purple
Odour : characteristic
Odour Threshold : No data available

pH : 11.50

Melting point/freezing point : No data available Boiling point : No data available

Flash point :

Not applicable

Upper explosion limit : No data available
Lower explosion limit : No data available
Vapour pressure : No data available
Relative vapour density : No data available
Density : 1.007 g/cm3
Bulk density : No data available

Solubility(ies)

Water solubility : completely soluble Solubility in other solvents : not determined

Partition coefficient: n-

octanol/water

: No data available

Auto-ignition temperature : No data available
Thermal decomposition : No data available

Viscosity

Viscosity, dynamic : No data available

#### **SECTION 10. STABILITY AND REACTIVITY**

Reactivity : Stable

Chemical stability : Stable under normal conditions.

Possibility of hazardous : No decomposition if stored and applied as directed.

### ZEP INDUSTRIAL PURPLE DEGREASER & CLEANER

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reactions

Conditions to avoid : Extremes of temperature and direct sunlight.

Incompatible materials : Acids

Hazardous decomposition

products

: Carbon monoxide, carbon dioxide and unburned

hydrocarbons (smoke).

#### **SECTION 11. TOXICOLOGICAL INFORMATION**

#### **Potential Health Effects**

Aggravated Medical

Condition

Symptoms of Overexposure

: None known.

: Effects are dependent on exposure (dose, concentration,

contact time).

Effects are immediate and delayed.

Symptoms may include blistering, irritation, burns, and pain.

Causes severe skin burns and eye damage.

Review section 2 of SDS to see all potential hazards. Treat symptomatically. Symptoms may be delayed.

Carcinogenicity:

IARC No component of this product present at levels greater than or

equal to 0.1% is identified as probable, possible or confirmed

human carcinogen by IARC.

ACGIH No component of this product present at levels greater than or

equal to 0.1% is identified as a carcinogen or potential

carcinogen by ACGIH.

OSHA No component of this product present at levels greater than or

equal to 0.1% is on OSHA's list of regulated carcinogens.

NTP No component of this product present at levels greater than or

equal to 0.1% is identified as a known or anticipated carcinogen

by NTP.

Acute toxicity

Product:

Acute oral toxicity : Acute toxicity estimate : > 5,000 mg/kg

Method: Calculation method

Components:

Alcohols, C9-11, ethoxylated:

Acute oral toxicity : LD50 Oral Rat: 1,400 mg/kg

Skin corrosion/irritation

**Product:** 

Remarks: Extremely corrosive and destructive to tissue.

### ZEP INDUSTRIAL PURPLE DEGREASER & CLEANER

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### Serious eye damage/eye irritation

#### **Product:**

Remarks: Risk of serious damage to eyes.

#### Respiratory or skin sensitisation

No data available

#### Germ cell mutagenicity

No data available

#### Carcinogenicity

No data available

#### Reproductive toxicity

No data available

### STOT - single exposure

No data available

#### STOT - repeated exposure

No data available

### Aspiration toxicity

No data available

#### **Further information**

#### **Product:**

Remarks: No data available

#### **SECTION 12. ECOLOGICAL INFORMATION**

#### **Ecotoxicity**

No data available

#### Persistence and degradability

No data available

#### Bioaccumulative potential

#### **Product:**

Partition coefficient: n- : Remarks: No data available

octanol/water

#### Mobility in soil

No data available

### ZEP INDUSTRIAL PURPLE DEGREASER & CLEANER

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#### Other adverse effects

No data available

**Product:** 

Regulation 40 CFR Protection of Environment; Part 82 Protection of

Stratospheric Ozone - CAA Section 602 Class I

Substances

Remarks This product neither contains, nor was manufactured

with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A

+ B).

Additional ecological

information

: No data available

#### **SECTION 13. DISPOSAL CONSIDERATIONS**

#### Disposal methods

Waste from residues : Do not dispose of waste into sewer.

Do not contaminate ponds, waterways or ditches with

chemical or used container.

Dispose of in accordance with local regulations.

Contaminated packaging : Empty remaining contents.

Dispose of as unused product. Do not re-use empty containers.

#### **SECTION 14. TRANSPORT INFORMATION**

Transportation Regulation: 49 CFR (USA):

UN3266, Corrosive liquid, basic, inorganic, n.o.s., (SODIUM HYDROXIDE), 8, III - Limited quantity

Transportation Regulation: IMDG (Vessel):

UN3266, CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S., (SODIUM HYDROXIDE), 8, III - Limited quantity

Transportation Regulation: IATA (Cargo Air):

UN3266, Corrosive liquid, basic, inorganic, n.o.s., (SODIUM HYDROXIDE), 8, III

Transportation Regulation: IATA (Passenger Air):

UN3266, Corrosive liquid, basic, inorganic, n.o.s., (SODIUM HYDROXIDE), 8, III

Transportation Regulation: TDG (Canada):

UN3266, CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S., (SODIUM HYDROXIDE), 8, III - Limited quantity

The product as delivered to the customer conforms to packaging requirements for shipment by road under US Department of Transportation (DOT) regulations. Additional transportation classifications noted above are for reference only, and not a certification or warranty of the suitability of the packaging for shipment under these alternative transport regulations.

Version 3.1 Revision Date 04/23/2020 Print Date 08/29/2022

#### **SECTION 15. REGULATORY INFORMATION**

TSCA list : No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification

requirements.

### EPCRA - Emergency Planning and Community Right-to-Know Act

#### **CERCLA Reportable Quantity**

Components	CAS-No.	Component RQ	Calculated product RQ
		(lbs)	(lbs)
sodium hydroxide	1310-73-2	1000	*

<sup>\*:</sup> Calculated RQ exceeds reasonably attainable upper limit.

#### SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards : Skin corrosion or irritation

Serious eye damage or eye irritation

SARA 302 : No chemicals in this material are subject to the reporting

requirements of SARA Title III, Section 302.

SARA 313 : This material does not contain any chemical components with

known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

California Prop. 65

This product does not contain any chemicals known to State of

California to cause cancer, birth defects, or any other

reproductive harm.

### The components of this product are reported in the following inventories:

DSL All components of this product are on the Canadian DSL

TSCA On TSCA Inventory

For information on the country notification status for other regions please contact the manufacturer's regulatory group.

#### **Inventory Acronym and Validity Area Legend:**

TSCA (USA), DSL (Canada), NDSL (Canada)

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#### **SECTION 16. OTHER INFORMATION**

#### **Further information**

#### NFPA:

HEALTH	3
FLAMMABILITY	1
INSTABILITY	0
SPECIAL HAZARD.	

<sup>0 =</sup> not significant, 1 = Slight,

#### HMIS III:

HEALTH	3
FLAMMABILITY	1
PHYSICAL HAZARD	0

0 = not significant, 1 = Slight,

2 = Moderate, 3 = High 4 = Extreme, \* = Chronic

#### **OSHA - GHS Label Information:**

Hazard pictograms



Signal word Hazard statements Precautionary statements

Causes severe skin burns and eye damage.

Prevention: Wash skin thoroughly after handling. Wear protective gloves/ protective clothing/ eye protection/ face protection.

**Response:** IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

<sup>2 =</sup> Moderate, 3 = High

<sup>4 =</sup> Extreme

# SAFETY DATA SHEET ZEP INDUSTRIAL PURPLE DEGREASER & CLEANER

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Immediately call a POISON CENTER/doctor. Wash contaminated clothing before reuse.

**Disposal:** Dispose of contents/container in accordance with local regulation.

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### Zepreserve

Version 1.0 Revision Date 10/27/2014 Print Date 08/05/2015

#### **SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**

Material name : Zepreserve

Material number : 0000000000143499

Manufacturer or supplier's details

Company : Zep Inc.

Address : 1310 Seaboard Industrial Blvd., NW

Atlanta, GA 30318

Telephone : 404-352-1680

### Emergency telephone numbers

For SDS Information : Compliance Services 1-877-428-9937

For a Medical Emergency : 877-541-2016 Toll Free - All Calls Recorded
For a Transportation : CHEMTREC: 800-424-9300 - All Calls Recorded.

**Emergency** In the District of Columbia 202-483-7616

#### SECTION 2. HAZARDS IDENTIFICATION

#### **Emergency Overview**

Physical state	liquid
Colour	dark brown, clear
Odour	neutral

#### **GHS Classification**

Flammable liquids : Category 3
Skin irritation : Category 2
Eye irritation : Category 2A
Aspiration hazard : Category 1

**GHS** Label element

Hazard pictograms :







Signal word : Danger

Hazard statements : H226 Flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

Precautionary statements : **Prevention:** 

P210 Keep away from heat, hot surfaces, sparks, open flames

and other ignition sources. No smoking. P233 Keep container tightly closed.



### Zepreserve

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P240 Ground/bond container and receiving equipment. P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment.

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.

P264 Wash skin thoroughly after handling.

P280 Wear protective gloves/ eye protection/ face protection.

Response:

P301 + P310 IF SWALLOWED: Immediately call a POISON

CENTER or doctor/ physician.

P303 + P361 + P353 IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P331 Do NOT induce vomiting.

P332 + P313 If skin irritation occurs: Get medical advice/ attention.

P337 + P313 If eye irritation persists: Get medical advice/ attention.

P362 Take off contaminated clothing and wash before reuse. P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.

Storage:

P403 + P235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

Disposal:

P501 Dispose of contents/container in accordance with local

regulation.

#### **Potential Health Effects**

Carcinogenicity:

IARC No component of this product present at levels greater than or

equal to 0.1% is identified as probable, possible or confirmed

human carcinogen by IARC.

ACGIH No component of this product present at levels greater than or

equal to 0.1% is identified as a carcinogen or potential

carcinogen by ACGIH.

OSHA No component of this product present at levels greater than or

equal to 0.1% is identified as a carcinogen or potential

carcinogen by OSHA.

NTP No component of this product present at levels greater than or

egual to 0.1% is identified as a known or anticipated carcinogen

by NTP.

#### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

### Hazardous components

Chemical Name	CAS-No.	Concentration [%]
---------------	---------	-------------------



### Zepreserve

Distillates (petroleum), hydrotreated light	64742-47-8	>= 50 - < 70
2-ethylhexan-1-ol	104-76-7	>= 5 - < 10
2-(2-butoxyethoxy)ethanol	112-34-5	>= 5 - < 10

**SECTION 4. FIRST AID MEASURES** 

General advice : Move out of dangerous area.

Show this safety data sheet to the doctor in attendance. Symptoms of poisoning may appear several hours later.

Do not leave the victim unattended.

If inhaled : If unconscious place in recovery position and seek medical

advice

If symptoms persist, call a physician.

In case of skin contact : If skin irritation persists, call a physician.

If on skin, rinse well with water. If on clothes, remove clothes.

In case of eye contact : Immediately flush eye(s) with plenty of water.

Remove contact lenses. Protect unharmed eye.

Keep eye wide open while rinsing.

If eye irritation persists, consult a specialist.

If swallowed : Keep respiratory tract clear.

Do NOT induce vomiting.

Do not give milk or alcoholic beverages.

Never give anything by mouth to an unconscious person.

If symptoms persist, call a physician. Take victim immediately to hospital.

**SECTION 5. FIREFIGHTING MEASURES** 

Suitable extinguishing media : Alcohol-resistant foam

Carbon dioxide (CO2)

Dry chemical

Unsuitable extinguishing

media

: High volume water jet

Specific hazards during

firefighting

: Do not allow run-off from fire fighting to enter drains or water

courses.

Hazardous combustion

products

: Carbon dioxide (CO2) Carbon monoxide

Smoke

Specific extinguishing

methods

: Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment.

Further information : Collect contaminated fire extinguishing water separately. This

must not be discharged into drains.

Fire residues and contaminated fire extinguishing water must

be disposed of in accordance with local regulations.



# Zepreserve

Version 1.0 Revision Date 10/27/2014 Print Date 08/05/2015

For safety reasons in case of fire, cans should be stored

separately in closed containments.

Use a water spray to cool fully closed containers.

Special protective equipment

for firefighters

: Wear self-contained breathing apparatus for firefighting if

necessary.

# SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.

Ensure adequate ventilation.

Remove all sources of ignition.

Evacuate personnel to safe areas.

Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

Environmental precautions

: Prevent product from entering drains.

Prevent further leakage or spillage if safe to do so.

If the product contaminates rivers and lakes or drains inform

respective authorities.

Methods and materials for containment and cleaning up

Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth,

vermiculite) and place in container for disposal according to

local / national regulations (see section 13).

# **SECTION 7. HANDLING AND STORAGE**

Advice on safe handling : Avoid formation of aerosol.

Do not breathe vapours/dust. Avoid contact with skin and eyes. For personal protection see section 8.

Smoking, eating and drinking should be prohibited in the

application area.

Take precautionary measures against static discharges.

Provide sufficient air exchange and/or exhaust in work rooms.

Open drum carefully as content may be under pressure.

Dispose of rinse water in accordance with local and national

regulations.

Conditions for safe storage : No smoking.

Keep container tightly closed in a dry and well-ventilated

place.

Containers which are opened must be carefully resealed and

kept upright to prevent leakage. Observe label precautions.

Electrical installations / working materials must comply with

the technological safety standards.

Materials to avoid : Keep away from oxidising agents and strongly acid or alkaline

materials.



# Zepreserve

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#### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters

Contains no substances with occupational exposure limit values.

#### Personal protective equipment

Hand protection

Remarks : The suitability for a specific workplace should be discussed

with the producers of the protective gloves.

Eye protection : Eye wash bottle with pure water

Tightly fitting safety goggles

Wear face-shield and protective suit for abnormal processing

problems.

Skin and body protection : impervious clothing

Choose body protection according to the amount and

concentration of the dangerous substance at the work place.

Hygiene measures : When using do not eat or drink.

When using do not smoke.

Wash hands before breaks and at the end of workday.

## **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance : liquid

Colour : dark brown, clear

Odour : neutral

Odour Threshold : no data available pH : no data available Melting point/freezing point : no data available

Boiling point : 151.7 °C Flash point : 43.9 °C

Method: closed cup

Evaporation rate : 0.1

Upper explosion limit : no data available
Lower explosion limit : no data available
Vapour pressure : no data available
Relative vapour density : no data available
Density : 0.826 g/cm3

Solubility(ies)

Water solubility : insoluble



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Partition coefficient: n-

octanol/water

: no data available

Auto-ignition temperature : not determined

Thermal decomposition : no data available

Viscosity

Viscosity, kinematic : 7 mm2/s (20 °C)

## **SECTION 10. STABILITY AND REACTIVITY**

Chemical stability : Stable under normal conditions.

Possibility of hazardous

reactions

: No decomposition if stored and applied as directed.

Vapours may form explosive mixture with air.

Conditions to avoid : Heat, flames and sparks.

Incompatible materials : Oxidizing agents

Hazardous decomposition

products

: Carbon oxides Sulphur oxides

#### **SECTION 11. TOXICOLOGICAL INFORMATION**

# Acute toxicity

**Product:** 

Acute oral toxicity : Acute toxicity estimate : > 5,000 mg/kg

Method: Calculation method

Components:

2-ethylhexan-1-ol:

Acute oral toxicity : LD50 Oral rat: 3,730 mg/kg

Acute dermal toxicity : LD50 Dermal rabbit: > 3,000 mg/kg

#### Skin corrosion/irritation

**Product:** 

Remarks: Irritating to skin.

# Serious eye damage/eye irritation

Product:



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Remarks: Irritating to eyes.

# Respiratory or skin sensitisation

no data available

# Germ cell mutagenicity

no data available

### Carcinogenicity

no data available

#### Reproductive toxicity

no data available

Distillates (petroleum), hydrotreated light:

2-ethylhexan-1-ol:

2-(2-butoxyethoxy)ethanol:

# STOT - single exposure

no data available

# STOT - repeated exposure

no data available

# Aspiration toxicity

no data available

# **Further information**

#### **Product:**

Remarks: Solvents may degrease the skin.

#### **Components:**

# Distillates (petroleum), hydrotreated light:

Remarks: no data available

## **SECTION 12. ECOLOGICAL INFORMATION**

## **Ecotoxicity**

no data available

# Persistence and degradability

no data available

#### Bioaccumulative potential

#### **Product:**

octanol/water Components: 2-ethylhexan-1-ol:

Partition coefficient: n- : Remarks: no data available



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Partition coefficient: n-

octanol/water

2-(2-butoxyethoxy)ethanol:

Partition coefficient: n-

octanol/water

: Pow: 2.9

: Pow: 1

Mobility in soil

no data available

Other adverse effects

no data available

Product:

Regulation 40 CFR Protection of Environment; Part 82 Protection of

Stratospheric Ozone - CAA Section 602 Class I

Substances

Remarks This product neither contains, nor was manufactured

with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A

+ B).

Additional ecological

information

: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal., Toxic to

aquatic life with long lasting effects.

**Components:** 

Distillates (petroleum), hydrotreated light:

Additional ecological

information

: no data available

# **SECTION 13. DISPOSAL CONSIDERATIONS**

Disposal methods

Waste from residues : The product should not be allowed to enter drains, water

courses or the soil.

Do not contaminate ponds, waterways or ditches with

chemical or used container.

Dispose of in accordance with local regulations.

Contaminated packaging : Empty remaining contents.

Dispose of as unused product. Do not re-use empty containers.

Do not burn, or use a cutting torch on, the empty drum.

# **SECTION 14. TRANSPORT INFORMATION**

# International regulation

**IATA-DGR** 

UN/ID No. : 1993



# Zepreserve

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Proper shipping name : Flammable liquid, n.o.s.

(PETROLEUM DISTILLATES)

Class : 3
Packing group : III
Labels : 3
Packing instruction (cargo : 366

aircraft)

Packing instruction : 355

(passenger aircraft)

**IMDG-Code** 

UN number : 1993

Proper shipping name : FLAMMABLE LIQUID, N.O.S.

(PETROLEUM DISTILLATES)

Class : 3
Packing group : III
Labels : 3

EmS Code : F-E, <u>S-E</u>

Marine pollutant : no

# Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

# **National Regulations**

**49 CFR** 

UN/ID/NA number : 1993

Proper shipping name : Flammable liquids, n.o.s.

(PETROLEUM DISTILLATES)

Class : 3
Packing group : III
Labels : 3
ERG Code : 128
Marine pollutant : no

# Special precautions for user

not applicable

#### **SECTION 15. REGULATORY INFORMATION**

# EPCRA - Emergency Planning and Community Right-to-Know Act

## **CERCLA Reportable Quantity**

This material does not contain any components with a CERCLA RQ.

# SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.



# Zepreserve

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SARA 311/312 Hazards : Fire Hazard

Acute Health Hazard

SARA 302 : SARA 302: No chemicals in this material are subject to the

reporting requirements of SARA Title III, Section 302.

SARA 313 : SARA 313: This material does not contain any chemical

components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA

Title III, Section 313.

California Prop 65 This product does not contain any chemicals known to State of

California to cause cancer, birth defects, or any other

reproductive harm.

## The components of this product are reported in the following inventories:

TSCA On TSCA Inventory

All components of this product are on the Canadian DSL.

AICS
On the inventory, or in compliance with the inventory

NZIoC
On the inventory, or in compliance with the inventory

PICCS
On the inventory, or in compliance with the inventory

IECSC
On the inventory, or in compliance with the inventory

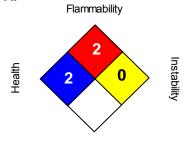
# **Inventory Acronym and Validity Area Legend:**

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TSCA (USA)

#### **SECTION 16. OTHER INFORMATION**

#### **Further information**





Special hazard.

#### HMIS III:

HEALTH	3
FLAMMABILITY	2
PHYSICAL HAZARD	0

0 = not significant, 1 = Slight,

2 = Moderate, 3 = High

4 = Extreme, \* = Chronic

OSHA GHS Label Information:



# Zepreserve

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Hazard pictograms







Signal word Danger:

Flammable liquid and vapour. May be fatal if sw allowed and enters airways. Causes Hazard statements

skin irritation. Causes serious eye irritation.

Precautionary statements

**Prevention:** Keep aw ay from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Wash skin thoroughly after handling. Wear protective gloves/ eye protection/face protection.

Response: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/shower. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Do NOT induce vomiting. If skin irritation occurs: Get medical advice/ attention. If eye irritation persists: Get medical advice/ attention. Take off contaminated clothing and w ash before reuse. In case of fire: Use dry sand, dry chemical or alcohol-resistant foam

for extinction.

Storage: Store in a well-ventilated place. Keep cool. Store locked up. **Disposal:** Dispose of contents/container in accordance with local regulation.

We believe the statements, technical information and recommendations contained herein are reliable, but they are given without warranty or guarantee of any kind. The information in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. Users should make their own investigations to determine the suitability and applicability of the information for their particular purposes. This SDS has been prepared by the Compliance Services organization supporting this manufacturer, supplier or distributor.

Zep Inc. markets products under well recognized and established brand names such as Zep®, Zep Commercial®,Zep Professional®, Enforcer®, National Chemical™, Selig™, Misty®, Next Dimension™, Petro®, i-Chem®, TimeMist®, TimeWick™, MicrobeMax®, Country Vet®, Konk®, Original Bike Spirits®, Blue Coral®, Black Magic®, Rain-X®, Niagara National™, FC Forward Chemicals®,Rexodan®, Mykal™, and a number of private labeled brands.

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# Safety Data Sheet



# 1. Identification

Product Name: BIN 1-GL 2 PK CLEAR Revision Date: 7/17/2019

Product Identifier: 249200 Supercedes Date: 12/13/2017

Recommended Use: Primer/ Sealer

Supplier: Rust-Oleum Corporation Manufacturer: Rust-Oleum Corporation

11 Hawthorn Parkway Vernon Hills, IL 60061

USA

11 Hawthorn Parkway Vernon Hills, IL 60061

USA

Preparer: Regulatory Department

Emergency Telephone: 24 Hour Hotline: 847-367-7700

# 2. Hazard Identification

#### Classification

Symbol(s) of Product



#### Signal Word

Danger

# Possible Hazards

23% of the mixture consists of ingredient(s) of unknown acute toxicity.

#### **GHS HAZARD STATEMENTS**

Flammable Liquid, category 1 H224 Extremely flammable liquid and vapour.

# GHS LABEL PRECAUTIONARY STATEMENTS

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P233 Keep container tightly closed.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/

shower.

P370+P378 In case of fire: Use alcohol film forming foam, carbon dioxide, dry chemical, dry sand to

extinguish.

P403+P235 Store in a well-ventilated place. Keep cool.

P501 Dispose of contents/container in accordance with local, regional and national regulations.

#### GHS SDS PRECAUTIONARY STATEMENTS

P240 Ground/bond container and receiving equipment.

P241 Use explosion-proof electrical/ventilating/lighting/equipment.

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.

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# 3. Composition / Information On Ingredients

#### **HAZARDOUS SUBSTANCES**

Chemical Name	CAS-No.	Wt.% Range	GHS Symbols	GHS Statements
Ethanol	64-17-5	50-75	GHS02	H225
Shellac	9000-59-3	10-25	Not Available	Not Available
2-Propanol	67-63-0	2.5-10	GHS02-GHS07	H225-302-319-336

## 4. First-Aid Measures

**FIRST AID - EYE CONTACT:** Immediately flush eyes with plenty of water for at least 15 minutes holding eyelids open. Get medical attention. Do NOT allow rubbing of eyes or keeping eyes closed.

**FIRST AID - SKIN CONTACT:** Wash skin with soap and water. Remove contaminated clothing. Get medical attention if irritation develops or persists.

**FIRST AID - INHALATION:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical attention. Do NOT use mouth-to-mouth resuscitation. If you experience difficulty in breathing, leave the area to obtain fresh air. If continued difficulty is experienced, get medical assistance immediately.

**FIRST AID - INGESTION:** Aspiration hazard: Do not induce vomiting or give anything by mouth because this material can enter the lungs and cause severe lung damage. Get immediate medical attention. If swallowed, get medical attention.

# 5. Fire-Fighting Measures

**EXTINGUISHING MEDIA:** Alcohol Film Forming Foam, Carbon Dioxide, Dry Chemical, Water Fog

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** Closed containers may explode when exposed to extreme heat due to buildup of steam. Vapors may form explosive mixtures with air. Vapors can travel to a source of ignition and flash back. Keep containers tightly closed. Isolate from heat, electrical equipment, sparks and open flame.

**SPECIAL FIREFIGHTING PROCEDURES:** Water may be used to cool closed containers to prevent pressure buildup and possible autoignition or explosion. Evacuate area and fight fire from a safe distance. Use water spray to keep fire-exposed containers cool. Containers may explode when heated.

**Special Fire and Explosion Hazard (Combustible Dust):** Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.

# 6. Accidental Release Measures

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: Contain spilled liquid with sand or earth. DO NOT use combustible materials such as sawdust. Eliminate all ignition sources; use explosion-proof equipment. Place material in a container and dispose of according to local, provincial, state and federal regulations. Remove all sources of ignition, ventilate area and remove with inert absorbent and non-sparking tools. Dispose of according to local, state (provincial) and federal regulations. Do not incinerate closed containers. Ventilate area, isolate spilled material, and remove with inert absorbent. Dispose of contaminated absorbent, container, and unused contents in accordance with local, state, and federal regulations.

# 7. Handling and Storage

**HANDLING:** Wash thoroughly after handling. Wash hands before eating. Remove contaminated clothing and launder before reuse. Use only with adequate ventilation. Follow all SDS and label precautions even after container is emptied because it may retain product residues. Avoid breathing fumes, vapors, or mist. Avoid contact with eyes, skin and clothing.

**STORAGE:** Store in a dry, well ventilated place. Keep container tightly closed when not in use. Keep containers tightly closed. Isolate from heat, electrical equipment, sparks and open flame. Do not store above 120 ° F. Store large quantities in buildings designed and protected for storage of NFPA Class II combustible liquids. Keep away from heat, sparks, flame and sources of ignition. Keep container closed when not in use. Avoid excess heat. Product should be stored in tightly sealed containers and protected from heat, moisture, and foreign materials.

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Advice on Safe Handling of Combustible Dust: Minimize dust generation and accumulation. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces. Dry powders can build static electricity charges when subjected to the friction of transfer and mixing operations. Provide adequate precautions such as grounding and bonding or inert atmospheres. For safe handling, refer to NFPA 654, Standard for the Prevention of Fire and Dust Explosions from the Manufacturing, Processing, and Handling of Combustible Particulate Solids.

# 8. Exposure Controls / Personal Protection

Chemical Name	CAS-No.	Weight % ACGIH TLV- Less Than TWA		ACGIH TLV- STEL OSHA PEL-TWA		OSHA PEL- CEILING
Ethanol	64-17-5	70.0	N.E.	1000 ppm	1000 ppm	N.E.
Shellac	9000-59-3	25.0	N.E.	N.E.	N.E.	N.E.
2-Propanol	67-63-0	5.0	200 ppm	400 ppm	400 ppm	N.E.

#### PERSONAL PROTECTION

**ENGINEERING CONTROLS:** Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Prevent build-up of vapors by opening all doors and windows to achieve crossventilation.

**RESPIRATORY PROTECTION:** A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use. A NIOSH/MSHA approved air purifying respirator with an organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits.

Protection provided by air purifying respirators is limited. Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or in any other circumstances where air purifying respirators may not provide adequate protection.

**SKIN PROTECTION:** Use gloves to prevent prolonged skin contact. Use impervious gloves to prevent skin contact and absorption of this material through the skin. Nitrile or Neoprene gloves may afford adequate skin protection.

EYE PROTECTION: Use safety eyewear designed to protect against splash of liquids.

**OTHER PROTECTIVE EQUIPMENT:** Refer to safety supervisor or industrial hygienist for further guidance regarding types of personal protective equipment and their applications. Refer to safety supervisor or industrial hygienist for further information regarding personal protective equipment and its application.

HYGIENIC PRACTICES: Wash thoroughly with soap and water before eating, drinking or smoking. Remove contaminated clothing immediately and launder before reuse.

**Engineering Measures for Combustible Dust:** It is recommended that all dust control equipment such as local exhaust ventilation and material transport systems involved in handling of the product contain explosion relief vents, an explosion suppression system, or an oxygen deficient environment. Ensure that dust handling systems such as exhaust ducts, dust collectors, vessels, and processing equipment are designed in a manner to prevent the escape of dust into the work area (i.e., there is no leakage from the equipment). Use only appropriately classified electrical equipment and powered industrial trucks.

# 9. Physical and Chemical Properties

Appearance:	Liquid	Physical State:	Liquid
Odor:	Solvent Like	Odor Threshold:	N.E.
Specific Gravity:	0.869	pH:	N.A.
Freeze Point, °C:	N.D.	Viscosity:	N.D.
Solubility in Water:	Slight	Partition Coefficient, n-octanol/	ND
Decompostion Temp., °C:	N.D.	water:	N.D.
Boiling Range, °C:	-18 - 100	Explosive Limits, vol%:	3.3 - 19.0
Flammability:	Supports Combustion	Flash Point, °C:	13
Evaporation Rate:	Slower than Ether	Auto-ignition Temp., °C:	N.D.
Vapor Density:	Heavier than Air	Vapor Pressure:	N.D.

(See "Other information" Section for abbreviation legend)

# 10. Stability and Reactivity

CONDITIONS TO AVOID: Avoid temperatures above 120°F (49°C). Avoid all possible sources of ignition.

**INCOMPATIBILITY:** Incompatible with strong oxidizing agents, strong acids and strong alkalies.

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**HAZARDOUS DECOMPOSITION:** By open flame, carbon monoxide and carbon dioxide. When heated to decomposition, it emits acrid smoke and irritating fumes. Contains solvents which may form carbon monoxide, carbon dioxide, and formaldehyde.

**HAZARDOUS POLYMERIZATION:** Will not occur under normal conditions.

**STABILITY:** This product is stable under normal storage conditions.

# 11. Toxicological Information

EFFECTS OF OVEREXPOSURE - EYE CONTACT: Causes Serious Eye Irritation

**EFFECTS OF OVEREXPOSURE - SKIN CONTACT:** Prolonged or repeated skin contact may cause irritation. Causes skin irritation. Allergic reactions are possible.

**EFFECTS OF OVEREXPOSURE - INHALATION:** Harmful if inhaled. High gas, vapor, mist or dust concentrations may be harmful if inhaled. Avoid breathing fumes, spray, vapors, or mist. May cause headaches and dizziness. High vapor concentrations are irritating to the eyes, nose, throat and lungs. Prolonged or excessive inhalation may cause respiratory tract irritation.

**EFFECTS OF OVEREXPOSURE - INGESTION:** Harmful if swallowed. Aspiration hazard if swallowed; can enter lungs and cause damage.

**EFFECTS OF OVEREXPOSURE - CHRONIC HAZARDS:** High concentrations may lead to central nervous system effects (drowsiness, dizziness, nausea, headaches, paralysis, and blurred vision) and/or damage. Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage.

PRIMARY ROUTE(S) OF ENTRY: Eye Contact, Ingestion, Inhalation, Skin Absorption, Skin Contact

#### **ACUTE TOXICITY VALUES**

The acute effects of this product have not been tested. Data on individual components are tabulated below:

CAS-No.	Chemical Name	Oral LD50	Dermal LD50	Vapor LC50
64-17-5	Ethanol	7060 mg/kg Rat	15,800 mg/kg Rabbit	30,000 mg/L Rat
67-63-0	2-Propanol	1870 mg/kg Rat	4059 mg/kg Rabbit	72.6 mg/L Rat

N.E. - Not Established

# 12. Ecological Information

ECOLOGICAL INFORMATION: Product is a mixture of listed components. Product is a mixture of listed components.

# 13. Disposal Information

**DISPOSAL INFORMATION:** Do not incinerate closed containers. Dispose of material in accordance to local, state, and federal regulations and ordinances.

# 14. Transport Information

	Domestic (USDOT)	International (IMDG)	<u>Air (IATA)</u>	TDG (Canada)
UN Number:	N.A.	1263	1263	N.A.
Proper Shipping Name:	Paint Products in Limited Quantities	Paint	Paint	Paint Products in Limited Quantities
Hazard Class:	N.A.	3	3	N.A.
Packing Group:	N.A.	II	II	N.A.
Limited Quantity:	Yes	Yes	Cargo Aircraft Only	Yes

# 15. Regulatory Information

# U.S. Federal Regulations:

## **CERCLA - SARA Hazard Category**

This product has been reviewed according to the EPA 'Hazard Categories' promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

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Flammable (gases, aerosols, liquids, or solids)

#### Sara Section 313:

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR part 372:

No Sara 313 components exist in this product.

#### **Toxic Substances Control Act:**

This product contains the following chemical substances subject to the reporting requirements of TSCA 12(b) if exported from the United States:

No TSCA 12(b) components exist in this product.

# U.S. State Regulations:

# California Proposition 65:

WARNING: No Prop. 65 warning is required.

# 16. Other Information

**HMIS RATINGS** 

Health: 2 Flammability: 3 Physical Hazard: 0 Personal Protection: X

**NFPA RATINGS** 

Health: 2 Flammability: 4 Instability 0

Volatile Organic Compounds 654 g/L SDS REVISION DATE: 7/17/2019

REASON FOR REVISION: Revision Description Changed

Substance and/or Product Properties Changed in Section(s):

11 - Toxicological Information14 - Transport Information15 - Regulatory Information16 - Other InformationRevision Statement(s) Changed

Legend: N.A. - Not Applicable, N.E. - Not Established, N.D. - Not Determined

The manufacturer believes, to the best of its knowledge, information and belief, the information contained herein to be accurate and reliable as of the date of this safety data sheet. However, because the conditions of handling, use, and storage of these materials are beyond our control, we assume no responsibility or liability for personal injury or property damage incurred by the use of these materials. The manufacturer makes no warranty, expressed or implied, regarding the accuracy or reliability of the data or results obtained from their use. All materials may present unknown hazards and should be used with caution. The information and recommendations in this material safety data sheet are offered for the users' consideration and examination. It is the responsibility of the user to determine the final suitability of this information and to comply with all applicable international, federal, state, and local laws and regulations.



# SAFETY DATA SHEET Zinsser Perma-White® Interior Eggshell

#### 1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

PRODUCT NAME Zinsser Perma-White® Interior Eggshell

PRODUCT NO. ZN7070001

APPLICATION Intended for use as a brush-/roller-/spray-applied, single component, water-borne coating.

SUPPLIER William Zinsser (UK) Ltd

Portobello Industrial Estate

Birtley

County Durham England DH3 2RE

+44(0)191 4106611 +44(0)191 4920125

enquiries@tor-coatings.com

CONTACT PERSON ian.mccormack@tor-coatings.com

EMERGENCY TELEPHONE +44(0)1865 407333 (NCEC)

#### 2 HAZARDS IDENTIFICATION

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

CLASSIFICATION (1999/45) R52/53.

**ENVIRONMENT** 

The product contains a substance which is hazardous to aquatic organisms and which may cause long term adverse effects in the aquatic environment. See section 12.

**HUMAN HEALTH** 

Prolonged contact may cause redness, irritation and dry skin. Prolonged and repeated contact with solvents over a long period may lead to permanent health problems

# 3 COMPOSITION/INFORMATION ON INGREDIENTS

Name	EC No.	CAS-No.	Content %	Classification (67/548/EEC)
SODIUM NITRITE	231-555-9	7632-00-0	< 1%	O;R8 T;R25 N;R50
ETHANEDIOL	203-473-3	107-21-1	< 1%	Xn;R22
2-(2-BUTOXYETHOXY)ETHANOL	203-961-6	112-34-5	< 1%	Xi;R36
ZINC OXIDE	215-222-5	1314-13-2	< 1%	N;R50/53

The Full Text for all R-Phrases is Displayed in Section 16

#### **4 FIRST-AID MEASURES**

#### **GENERAL INFORMATION**

General first aid, rest, warmth and fresh air. Do not give victim anything to drink if they are unconscious. Get medical attention if any discomfort continues.

#### INHALATION

Place unconscious person on the side in the recovery position and ensure breathing can take place. If respiratory problems, artificial respiration/oxygen. Get medical attention if any discomfort continues.

#### INGESTION

Immediately rinse mouth and drink plenty of water or milk. Keep person under observation. Do not induce vomiting. If vomiting occurs, keep head low. Transport immediately to hospital and bring along these instructions.

#### SKIN CONTACT

Use appropriate hand lotion to prevent defatting and cracking of skin. Immediately remove contaminated clothing. Wash off promptly and flush contaminated skin with water. Promptly remove clothing if soaked through and flush skin with water.

# EYE CONTACT

Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. Get medical attention promptly if symptoms occur after washing.

## Zinsser Perma-White® Interior Eggshell

#### **5 FIRE-FIGHTING MEASURES**

**EXTINGUISHING MEDIA** 

This product is not flammable. Use fire-extinguishing media appropriate for surrounding materials.

SPECIAL FIRE FIGHTING PROCEDURES

Use pressurised air mask if product is involved in a fire. Cool containers exposed to flames with water until well after the fire is out. Keep run-off water out of sewers and water sources. Dike for water control.

**UNUSUAL FIRE & EXPLOSION HAZARDS** 

Fire causes formation of toxic gases.

PROTECTIVE MEASURES IN FIRE

Self contained breathing apparatus and full protective clothing must be worn in case of fire.

#### **6 ACCIDENTAL RELEASE MEASURES**

PERSONAL PRECAUTIONS

Wear protective clothing as described in Section 8 of this safety data sheet.

**ENVIRONMENTAL PRECAUTIONS** 

Spillages or uncontrolled discharges into watercourses must be IMMEDIATELY alerted to the Environmental Agency or other appropriate regulatory body.

SPILL CLEAN UP METHODS

Absorb in vermiculite, dry sand or earth and place into containers. Wash thoroughly after dealing with a spillage.

#### **7 HANDLING AND STORAGE**

**USAGE PRECAUTIONS** 

Avoid spilling, skin and eye contact. Ventilate well, avoid breathing vapours. Use approved respirator if air contamination is above accepted level.

STORAGE PRECAUTIONS

Store in tightly closed original container in a dry, cool and well-ventilated place. Keep in original container. Avoid contact with oxidising agents.

#### 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Name	STD	TWA - 8 Hrs		STEL	Notes	
2-(2-BUTOXYETHOXY)ETHANOL		10 ppm	67.5 mg/m3	15 ppm	101.2 mg/m3	
ETHANEDIOL	WEL		52 mg/m3(Sk)		104 mg/m3(Sk)	

WEL = Workplace Exposure Limit.

INGREDIENT COMMENTS

WEL = Workplace Exposure Limits

PROTECTIVE EQUIPMENT





### PROCESS CONDITIONS

Provide eyewash station.

**ENGINEERING MEASURES** 

Provide adequate ventilation, including appropriate local extraction, to ensure that the defined occupational exposure limit is not exceeded. All handling to take place in well-ventilated area.

RESPIRATORY EQUIPMENT

Provide adequate ventilation. Observe Occupational Exposure Limits and minimise the risk of inhalation of vapours.

HAND PROTECTION

Protective gloves should be used if there is a risk of direct contact or splash.

**EYE PROTECTION** 

Wear splash-proof eye goggles to prevent any possibility of eye contact.

OTHER PROTECTION

Wear appropriate clothing to prevent any possibility of skin contact.

HYGIENE MEASURES

DO NOT SMOKE IN WORK AREA! Wash at the end of each work shift and before eating, smoking and using the toilet. Promptly remove any clothing that becomes contaminated. Use appropriate skin cream to prevent drying of skin. When using do not eat, drink or smoke.

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# Zinsser Perma-White® Interior Eggshell

#### 9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE Liquid

COLOUR White / off-white.

ODOUR Slight odour.

SOLUBILITY Miscible with water

RELATIVE DENSITY 1.34 Approx. @20°C.

VAPOUR DENSITY (air=1) Heavier than air

## 10 STABILITY AND REACTIVITY

#### STABILITY

No particular stability concerns.

HAZARDOUS DECOMPOSITION PRODUCTS

Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

#### 11 TOXICOLOGICAL INFORMATION

#### SKIN CONTACT

Prolonged contact may cause redness and irritation.

#### EYE CONTACT

Slightly irritating.

 Name
 SODIUM NITRITE

 Toxic Dose 1 - LD 50
 85 - 180 mg/kg (oral rat)

 Toxic Dose 2 - LD 50
 175 mg/kg (oral-mouse)

 Toxic Conc. - LC 50
 5.5 mg/l/4h (inh-rat)

 Name
 ETHANEDIOL

Name ETHANEDIOL

Toxic Dose 1 - LD 50 4700 mg/kg (oral rat)

 Name
 2-(2-BUTOXYETHOXY)ETHANOL

 Toxic Dose 1 - LD 50
 4500 - 5660 mg/kg (oral rat)

 Toxic Dose 2 - LD 50
 2400 - 6050 mg/kg (oral-mouse)

Name ZINC OXIDE

 Toxic Dose 1 - LD 50
 >15000 mg/kg (oral rat)

 Toxic Dose 2 - LD 50
 7950 mg/kg (oral-mouse)

 Toxic Conc. - LC 50
 >5.7 mg/l/4h (inh-rat)

#### 12 ECOLOGICAL INFORMATION

#### **ECOTOXICITY**

Dangerous for the environment: May cause long-term adverse effects in the aquatic environment.

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## Zinsser Perma-White® Interior Eggshell

Name SODIUM NITRITE

**Ecotoxicity** 

Very toxic to aquatic organisms.

LC 50, 96 Hrs, Fish mg/l 0.19 - 1.78 EC 50, 48 Hrs, Daphnia, mg/l 12.5 - 100

Mobility

The product is soluble in water. Bioaccumulative potential

The product is not bioaccumulating.

Name ETHANEDIOL

LC 50, 96 Hrs, Fish mg/l >100

Name 2-(2-BUTOXYETHOXY)ETHANOL

Ecotoxicity

The product contains a substance which causes risk of hazardous effects to the environment.

LC 50, 96 Hrs, Fish mg/l 1300 EC 50, 48 Hrs, Daphnia, mg/l 100

Mobility

The product is soluble in water. Bioaccumulative potential

This material is not expected to significantly bioaccumulate.

Degradability

The product is moderately biodegradable.

Name ZINC OXIDE

**Ecotoxicity** 

The product must not be allowed to enter drains or water courses.

IC 50, 72 Hrs, Algae, mg/l 170

#### 13 DISPOSAL CONSIDERATIONS

#### GENERAL INFORMATION

Waste to be treated as controlled waste. Disposal to licensed waste disposal site in accordance with local Waste Disposal Authority.

DISPOSAL METHODS

Dispose of waste and residues in accordance with local authority requirements. Absorb in vermiculite or dry sand and dispose of at a licenced hazardous waste collection point.

#### 14 TRANSPORT INFORMATION

GENERAL The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID).

No transport warning sign required.

ENVIRONMENTALLY HAZARDOUS SUBSTANCE/MARINE POLLUTANT

No.

#### 15 REGULATORY INFORMATION

RISK PHRASES

R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic

environment.

SAFETY PHRASES

S2 Keep out of the reach of children.
S23 Do not breathe vapour/spray.

S56 Dispose of this material and its container to hazardous or special waste collection point.

**EU DIRECTIVES** 

System of specific information relating to Dangerous Preparations. 2001/58/EC. Dangerous Preparations Directive 1999/45/EC.

APPROVED CODE OF PRACTICE

Safety Data Sheets for Substances and Preparations. Classification and Labelling of Substances and Preparations Dangerous for Supply.

NATIONAL REGULATIONS

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2002. No. 1689. Workplace Exposure Limits 2005 (EH40)

#### **16 OTHER INFORMATION**

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# Zinsser Perma-White® Interior Eggshell

#### INFORMATION SOURCES

Croner's Emergency Spillage Guide Croner's Emergency First Aid Guide Croner's Substances Hazardous to Health

REVISION COMMENTS

Amended in line with HSE requirements.

ISSUED BY

D Charles

REVISION DATE 27/07/2012

REV. NO./REPL. SDS GENERATED 10

SDS NO. 16304

SAFETY DATA SHEET STATUS

Approved.

DATE 27/07/2012

RISK PHRASES IN FULL

R8 Contact with combustible material may cause fire.

R22 Harmful if swallowed.
R36 Irritating to eyes.
R25 Toxic if swallowed.

R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R50 Very toxic to aquatic organisms.