



Sentinel 717 Gel Mastic Remover

Safety Data Sheet

Prepared according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations
Revision date: 02/22/2016 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 717 Gel Mastic Remover
Product form : Mixture

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

Use of the substance/mixture : Mastic 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)

Flammable Liquid Category 4	H227
Skin Irritation Category 1	H314
Eye Irritation Category 1	H318
Skin Sensitization Category 1	H317
Specific Target Organ Toxicity (Single Exposure)	H336
[Narcotic effects] Category 3	
Aspiration Toxicity Category 1	H304
Chronic Aquatic Toxicity Category 3	H412

2.2. Label elements

GHS-US labeling

Hazard pictograms (GHS-US) :



Signal word (GHS-US) :

Danger

Hazard statements (GHS-US) :

H227 - Combustible liquid
H314 - Causes severe skin burns and eye damage
H318 - Causes serious eye damage
H317 - May cause an allergic skin reaction
H336 - May cause drowsiness or dizziness
H304 - May be fatal if swallowed and enters airways
H412 - Harmful to aquatic life with long lasting effects
P210 - Keep away from heat, open flames, sparks. - No smoking.
P260 - Do not breathe mists.
P261 - Avoid breathing vapors/spray.
P271 - Use only outdoors or in a well-ventilated area.
P272 - Contaminated work clothing should not be allowed out of the workplace
P264 - Wash hands thoroughly after handling.
P280 - Wear eye protection, protective clothing, protective gloves
P303+P361+P353 - IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin/hair with water/shower.
P352 - Wash with plenty of soap and water.
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
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.
P301+P310+P330+P331 - IF SWALLOWED: Immediately call a POISON CENTER or

Sentinel 717 Gel Mastic Remover

Safety Data Sheet

Prepared according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

doctor/physician. Rinse mouth. Do NOT induce vomiting.
P273 - Avoid release to the environment.
P370+P378 - In case of fire: Use dry chemical, foam, CO2 for extinction.
P403+P233+P235 - Store in a well-ventilated place. Keep container tightly closed. Keep cool.
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	%
Petroleum distillates, hydrotreated light	(CAS No) 64742-47-8	Proprietary*
Solvent naphtha, petroleum, heavy aromatic	(CAS No) 64742-94-5	Proprietary*
2-(2-butoxyethoxy)ethanol	(CAS No) 112-34-5	Proprietary*
2-aminoethanol	(CAS No) 141-43-5	Proprietary*
Surfactant Blend	(CAS No) Proprietary*	Proprietary*
Fragrance	(CAS No) Mixture	Proprietary*

*The exact product identification and/or 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: If breathing difficulties, dizziness, or light headedness occur when working in areas with high vapor concentration, remove to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician. If breathing stops, begin artificial respiration and seek immediate medical attention.
First-aid measures after skin contact	: IF ON SKIN: Remove contaminated clothing. Immediately rinse with plenty of mild soap and water (for at least 15 minutes). 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 of excessive concentration of vapors or mists may cause irritation of the nose and throat and signs of nervous system depression (e.g. drowsiness, dizziness, loss of coordination and fatigue). Persons with impaired lung function or asthma-like conditions may experience additional breathing difficulties due to the irritant properties of the material.
Symptoms/injuries after skin contact	: Contact may cause irritation. Prolonged or repeated exposure to this material may cause redness, burning, drying or cracking of the skin or dermatitis. Persons with pre-existing skin disorders may be more susceptible to the effects of this material.
Symptoms/injuries after eye contact	: Direct contact with the eyes is likely to be irritating. May cause burning, tearing or redness.
Symptoms/injuries after ingestion	: This material causes irritation of the stomach and intestines and signs of nervous system depression. Acute exposure may result in narcosis, pulmonary edema and severe kidney and liver damage.
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.
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5.2. Special hazards arising from the substance or mixture

Fire hazard	: This material is an NFPA IIIA combustible liquid.
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.

Sentinel 717 Gel Mastic Remover

Safety Data Sheet

Prepared according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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. The use of SCBA is recommended for fire fighters.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

- General measures : Evacuate area. Keep upwind. Ventilate area. Keep all sources of ignition and hot metal surfaces away from spill. 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.

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. Keep away from sources of ignition - No smoking.

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

Petroleum distillates, hydrotreated light (64742-47-8)	
Remark (ACGIH)	OELs not established
Remark (US OSHA)	OELs not established
Solvent naphtha, petroleum, heavy aromatic (64742-94-5)	
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
2-aminoethanol (141-43-5)	
Remark (ACGIH)	TWA - 3 PPM, STEL - 6 PPM
Remark (US OSHA)	TWA - 3 PPM

Sentinel 717 Gel Mastic Remover

Safety Data Sheet

Prepared according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Surfactant Blend (Proprietary)	
Remark (ACGIH)	OELs not established
Remark (US OSHA)	OELs not established

Fragrance (Mixture)	
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. Mechanical ventilation may be necessary to contain air contaminants below the PEL or TLV.

Personal protective equipment

: Gloves. Protective clothing. Protective goggles. Respiratory protection of the dependent type.



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

: It is suggested a source of clean water be available in the work area for flushing eyes and skin. Impervious clothing should be worn as needed.

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	: Viscous liquid
Appearance	: Clear
Color	: None
Odor	: Citrus
Odor Threshold	: No data available
pH	: Not applicable
Relative evaporation rate (butyl acetate=1)	: Slower than ether
Melting point	: No data available
Freezing point	: No data available
Boiling point	: 243°C (470 °F) Note: Minimum.
Flash point	: 63 °C (145 °F) Note: Minimum. Method: PMCC
Self ignition temperature	: 216°C (421 °F) Note: Approximate.
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapor pressure	: < 0.5 mm Hg at 68 °F
Relative vapor density at 20 °C	: Heavier than air.
Relative density	: No data available
Solubility	: No data available
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

VOC content : < 15 g/L

*When determining VOC content in accordance with the requirements set forth by the Ozone Transport Commission (OTC), effective 01-01-2009

Sentinel 717 Gel Mastic Remover

Safety Data Sheet

Prepared according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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 : Strong oxidizing agents.

10.6. Hazardous decomposition products

Thermal decomposition generates : Carbon oxides (CO, CO₂).

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Petroleum distillates, hydrotreated light (64742-47-8)	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rabbit	> 2000 mg/kg
LC50 inhalation rat (mg/l)	> 5.2 mg/l/4h

Solvent naphtha, petroleum, heavy aromatic (64742-94-5)	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rabbit	> 2000 mg/kg
LC50 inhalation rat (mg/l)	> 590 mg/m ³ 4h

2-(2-butoxyethoxy)ethanol (112-34-5)	
LD50 oral rat	> 4500 mg/kg
LD50 dermal rabbit	> 2500 mg/kg

2-aminoethanol (141-43-5)	
LD50 oral rat	> 1500 mg/kg
LD50 dermal rabbit	> 1000 mg/kg

Surfactant Blend (Proprietary) No data for mixture - information noted is the minimum within blend components.	
LD50 oral rat	> 1400 mg/kg
LD50 dermal rabbit	> 2000 mg/kg

Skin corrosion/irritation : Skin Irritant Category 1

Serious eye damage/irritation : Eye Irritant Category 1

Respiratory or skin sensitization : Skin sensitizer

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

Specific target organ toxicity (single exposure) : Category 3 - may cause drowsiness or dizziness.

Specific target organ toxicity (repeated exposure) : Not classified

Aspiration hazard : May be fatal if swallowed and enters airways.

Symptoms/injuries after inhalation : Inhalation of excessive concentration of vapors or mists may cause irritation of the nose and throat and signs of nervous system depression (e.g. drowsiness, dizziness, loss of coordination and fatigue). Persons with impaired lung function or asthma-like conditions may experience additional breathing difficulties due to the irritant properties of the material.

Symptoms/injuries after skin contact : Contact may cause irritation. Prolonged or repeated exposure to this material may cause redness, burning, drying or cracking of the skin or dermatitis. Persons with pre-existing skin disorders may be more susceptible to the effects of this material.

Symptoms/injuries after eye contact : Direct contact with the eyes is likely to be irritating. May cause burning, tearing or redness.

Sentinel 717 Gel Mastic Remover

Safety Data Sheet

Prepared according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Symptoms/injuries after ingestion	: This material causes irritation of the stomach and intestines and signs of nervous system depression. Acute exposure may result in narcosis, pulmonary edema and severe kidney and liver damage.
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.

SECTION 14: Transport information

In accordance with DOT

Transport document description : Cleaning Compound

Department of Transportation (DOT) Hazard Classes : Not Regulated

Other information : Not regulated in pkg. of less than 119 gal.

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 717 Gel Mastic Remover	
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard Fire hazard
Petroleum distillates, hydrotreated light (64742-47-8)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
Solvent naphtha, petroleum, heavy aromatic (64742-94-5)	
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	
2-aminoethanol (141-43-5)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
Surfactant Blend (Proprietary)	
Components Listed on the United States TSCA (Toxic Substances Control Act) inventory	

15.2. International regulations

CANADA

Sentinel 717 Gel Mastic Remover

Safety Data Sheet

Prepared according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Petroleum distillates, hydrotreated light (64742-47-8)

Listed on the Canadian DSL (Domestic Substances List) inventory.

Solvent naphtha, petroleum, heavy aromatic (64742-94-5)

Listed on the Canadian DSL (Domestic Substances List) inventory.

2-(2-butoxyethoxy)ethanol (112-34-5)

Listed on the Canadian DSL (Domestic Substances List) inventory.

No additional information available

15.2.2. National regulations

Petroleum distillates, hydrotreated light (64742-47-8)

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.

Solvent naphtha, petroleum, heavy aromatic (64742-94-5)

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.

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.

15.3. US State regulations

Naphthalene (91-20-3)

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 significance risk level (NSRL)
Yes				

Naphthalene (91-20-3)

U.S. - Massachusetts - Right To Know List
U.S. - New Jersey - Right to Know Hazardous Substance List
U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List

SECTION 16: Other information

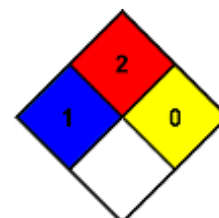
Indication of changes : Revision 1.0 – 2 February 2016 - New SDS Created.

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 : 2 - Must be moderately heated or exposed to relatively high temperature before ignition can occur.

NFPA reactivity : 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.



HMIS III Rating

Health : 1
Flammability : 2
Physical : 0
Personal Protection : H

Sentinel 717 Gel Mastic Remover

Safety Data Sheet

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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.

Amerisafe Low Odor Mastic Remover

Safety Data Sheet

Prepared according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Revision date: 11/02/2015

Supersedes: All previous versions

Version: 1.1

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

1.1. Product identifier

Product name : Amerisafe Low Odor Mastic Remover

Product form : Mixture

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

Use of the substance/mixture : Mastic adhesive removal

1.3. Details of the supplier of the safety data sheet

Amerisafe
3990 Enterprise Court
Aurora, IL 60504
Phone: (630) 862-2650
Toll-free: (800) 433-2297
www.amerisafe.net

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)

Flammable Liquid Category 4	H227
Aspiration Toxicity Category 1	H304
Skin Irritation Category 2	H315
Eye Irritation Category 2	H319
Acute Toxicity - Inhalation Category 4	H332
Specific Target Organ Toxicity (Single Exposure) [Narcotic effects] Category 3	H336

2.2. Label elements

GHS-US labeling

Hazard pictograms (GHS-US) :



Signal word (GHS-US) :

Danger

Hazard statements (GHS-US) :

H227 - Combustible liquid
H332 - Harmful if inhaled
H315 - Causes skin irritation
H319 - Causes serious eye irritation
H336 - May cause drowsiness and dizziness
H304 - May be fatal if swallowed and enters airways

Precautionary statements (GHS-US) :

P210 - Keep away from heat, open flames, sparks. - No smoking
P261 - Avoid breathing vapors
P271 - Use only outdoors or in a well-ventilated area
P264 - Wash hands thoroughly after handling.
P280 - Wear eye protection, protective clothing, protective gloves
P304+P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P312 - Call a POISON CENTER or doctor/physician if you feel unwell
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.
P337+P313 - If eye irritation persists: Get medical advice/attention.
P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
P331 - If swallowed, do NOT induce vomiting
P370+P378 - In case of fire: Use dry chemical, foam, CO2 for extinction
P403+P235 - Store in a well-ventilated place. Keep cool
P405 - Store locked up
P501 - Dispose of contents/container to licensed waste handling facility

Amerisafe Low Odor Mastic Remover Safety Data Sheet

Prepared according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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	%
Petroleum distillates, hydrotreated light	(CAS No) 64742-47-8	Proprietary*
Solvent naphtha, petroleum, heavy aromatic	(CAS No) 64742-94-5	Proprietary*
2-(2-butoxyethoxy)ethanol	(CAS No) 112-34-5	Proprietary*
Surfactant	(CAS No) Proprietary*	Proprietary*

*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 : 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). 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. Solvent vapors are hazardous and may cause nausea, sickness and headaches. Aspiration of this material into the lungs may cause chemical pneumonia or death.
- Symptoms/injuries after skin contact : Contact during a long period may cause light irritation.
- Symptoms/injuries after eye contact : Direct contact with the eyes is likely to be irritating.
- Symptoms/injuries after ingestion : Acute ingestion causes CNS depression, oropharyngeal and gastric pain and vomiting.
- 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

- Fire hazard : This material is an NFPA IIIA combustible liquid.
- 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.

Amerisafe Low Odor Mastic Remover Safety Data Sheet

Prepared according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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. 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. Keep away from sources of ignition - No smoking.

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

Petroleum distillates, hydrotreated light (64742-47-8)	
Remark (ACGIH)	OELs not established
Remark (US OSHA)	OELs not established
Solvent naphtha, petroleum, heavy aromatic (64742-94-5)	
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.

Personal protective equipment

: Gloves. Protective clothing. Protective goggles. Respiratory protection of the dependent type.



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.

Amerisafe Low Odor Mastic Remover 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 to amber
Odor	: Mild solvent odor
Odor Threshold	: No data available
pH	: Not applicable
Relative evaporation rate (butyl acetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: 192 - 212 °C (376-412 °F)
Flash point	: 63 °C (145 °F) Note: Minimum. Method: PMCC
Self ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapor pressure	: < 0.5 mm Hg @ 68 °F
Relative vapor density at 20 °C	: Heavier than air.
Relative density	: No data available
Solubility	: No data available
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

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 : Oxidizing agent.

10.6. Hazardous decomposition products

Thermal decomposition generates : Carbon oxides (CO, CO₂).

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Inhalation Category 4

Petroleum distillates, hydrotreated light (64742-47-8)	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rabbit	> 2000 mg/kg
LC50 inhalation rat (mg/l)	> 5.2 mg/l/4h

Solvent naphtha, petroleum, heavy aromatic (64742-94-5)	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rabbit	> 2000 mg/kg
LC50 inhalation rat (mg/l)	> 590 mg/m ³ 4h

Amerisafe Low Odor Mastic Remover Safety Data Sheet

Prepared according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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 2
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: Inhalation may cause drowsiness and dizziness
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. Solvent vapors are hazardous and may cause nausea, sickness and headaches. 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.
Symptoms/injuries after ingestion	: Acute ingestion causes CNS depression, oropharyngeal and gastric pain and vomiting.
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.

SECTION 14: Transport information

In accordance with DOT

Transport document description : Cleaning Compound

Department of Transportation (DOT) Hazard Classes : Not Regulated – Product does not sustain combustion

Other information : Not regulated in pkg. of less than 119 gal.

Transport by sea

No additional information available

Air transport

No additional information available

Amerisafe Low Odor Mastic Remover Safety Data Sheet

Prepared according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

In accordance with ADR / RID / IMDG / IATA / ADN

SECTION 15: Regulatory information

15.1. US Federal regulations

Amerisafe Low Odor Mastic Remover

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 Fire hazard
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Petroleum distillates, hydrotreated light (64742-47-8)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Solvent naphtha, petroleum, heavy aromatic (64742-94-5)

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

Petroleum distillates, hydrotreated light (64742-47-8)

Listed on the Canadian DSL (Domestic Substances List) inventory.

Solvent naphtha, petroleum, heavy aromatic (64742-94-5)

Listed on the Canadian DSL (Domestic Substances List) inventory.

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

Petroleum distillates, hydrotreated light (64742-47-8)

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.

Solvent naphtha, petroleum, heavy aromatic (64742-94-5)

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.

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

Naphthalene (91-20-3)

U.S. - California - Proposition 65 - Carcinogens List	U.S. - California - Proposition 65 - Developmental Toxicity	U.S. - California - Proposition 65 - Reproductive Toxicity -	U.S. - California - Proposition 65 - Reproductive Toxicity -	No significance risk level (NSRL)
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Amerisafe Low Odor Mastic Remover Safety Data Sheet

Prepared according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

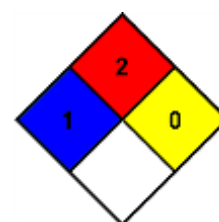
Naphthalene (91-20-3)				
		Female	Male	
Yes				

Naphthalene (91-20-3)				
U.S. - Massachusetts - Right To Know List				
U.S. - New Jersey - Right to Know Hazardous Substance List				
U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List				

SECTION 16: Other information

Indication of changes : Revision 1.1 - 02 November 2015
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 : 2 - Must be moderately heated or exposed to relatively high temperature before ignition can occur.
NFPA reactivity : 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.



HMIS III Rating

Health : 1
Flammability : 2
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.

Amerisafe No Odor Mastic Remover (VOC Compliant)

Safety Data Sheet

Prepared according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Revision date: 11/02/2015

Supersedes: All previous versions

Version: 1.1

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

1.1. Product identifier

Product name : Amerisafe No Odor Mastic Remover
Product form : Mixture

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

Use of the substance/mixture : Mastic adhesive removal

1.3. Details of the supplier of the safety data sheet

Amerisafe
3990 Enterprise Court
Aurora, IL 60504
Phone: (630) 862-2650
Toll-free: (800) 433-2297
www.amerisafe.net

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)

Flammable Liquid Category 4	H227
Aspiration Toxicity Category 1	H304
Skin Irritation Category 2	H315
Eye Irritation Category 2	H319

2.2. Label elements

GHS-US labeling

Hazard pictograms (GHS-US) :



Signal word (GHS-US) :

Danger

Hazard statements (GHS-US) :

H227 - Combustible liquid
H315 - Causes skin irritation
H319 - Causes serious eye irritation
H304 - May be fatal if swallowed and enters airways
P210 - Keep away from heat, open flames, sparks. - No smoking
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.
P337+P313 - If eye irritation persists: Get medical advice/attention.
P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
P331 - If swallowed, do NOT induce vomiting
P370+P378 - In case of fire: Use dry chemical, foam, CO2 for extinction
P403+P235 - Store in a well-ventilated place. Keep cool
P405 - Store locked up
P501 - Dispose of contents/container to licensed waste handling facility

Precautionary statements (GHS-US) :

2.3. Other hazards

No additional information available

Amerisafe No Odor Mastic Remover (VOC Compliant)

Safety Data Sheet

Prepared according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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	%
Petroleum distillates, hydrotreated light	(CAS No) 64742-47-8	Proprietary*
2-(2-butoxyethoxy)ethanol	(CAS No) 112-34-5	Proprietary*
Surfactant	(CAS No) Proprietary*	Proprietary*

*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 : 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). 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. Solvent vapors are hazardous and may cause nausea, sickness and headaches. Aspiration of this material into the lungs may cause chemical pneumonia or death.
- Symptoms/injuries after skin contact : Contact during a long period may cause light irritation.
- Symptoms/injuries after eye contact : Direct contact with the eyes is likely to be irritating.
- Symptoms/injuries after ingestion : Acute ingestion causes CNS depression, oropharyngeal and gastric pain and vomiting.
- 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

- Fire hazard : This material is an NFPA IIIA combustible liquid.
- 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).

Amerisafe No Odor Mastic Remover (VOC Compliant)

Safety Data Sheet

Prepared according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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. 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. Keep away from sources of ignition - No smoking.

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

Petroleum distillates, hydrotreated light (64742-47-8)	
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.
Personal protective equipment : Gloves. Protective clothing. Protective goggles. Respiratory protection of the dependent type.



- 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.

Amerisafe No Odor Mastic Remover (VOC Compliant)

Safety Data Sheet

Prepared according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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.

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	: Mild solvent odor
Odor Threshold	: No data available
pH	: Not applicable
Relative evaporation rate (butyl acetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: 184 - 194 °C (363-381 °F)
Flash point	: 77 °C (170 °F) Note: Minimum. Method: PMCC
Self ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapor pressure	: < 0.5 mm Hg @ 68 °F
Relative vapor density at 20 °C	: Heavier than air.
Relative density	: No data available
Solubility	: No data available
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

VOC content	: < 15 g/l
*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 : Oxidizing agent.

10.6. Hazardous decomposition products

Thermal decomposition generates : Carbon oxides (CO, CO₂).

Amerisafe No Odor Mastic Remover (VOC Compliant)

Safety Data Sheet

Prepared according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

Petroleum distillates, hydrotreated light (64742-47-8)	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rabbit	> 2000 mg/kg
LC50 inhalation rat (mg/l)	> 5.2 mg/l/4h

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 2

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. Solvent vapors are hazardous and may cause nausea, sickness and headaches. 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.

Symptoms/injuries after ingestion : Acute ingestion causes CNS depression, oropharyngeal and gastric pain and vomiting.

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

Amerisafe No Odor Mastic Remover (VOC Compliant)

Safety Data Sheet

Prepared according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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 Classes : Not Regulated – Product does not sustain combustion
- Other information : Not regulated in pkg. of less than 119 gal.

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

Amerisafe No Odor Mastic Remover

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 Fire hazard
-------------------------------------	--

Petroleum distillates, hydrotreated light (64742-47-8)

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

Petroleum distillates, hydrotreated light (64742-47-8)

Listed on the Canadian DSL (Domestic Substances List) inventory.

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

Petroleum distillates, hydrotreated light (64742-47-8)

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.

Amerisafe No Odor Mastic Remover (VOC Compliant)

Safety Data Sheet

Prepared according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and 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

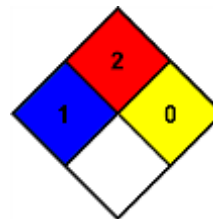
California Proposition 65

This product does not contain any substances known to the state of California to cause cancer and/or reproductive harm

SECTION 16: Other information

Indication of changes : Revision 1.1 - 02 November 2015
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 : 2 - Must be moderately heated or exposed to relatively high temperature before ignition can occur.
NFPA reactivity : 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.



HMIS III Rating

Health : 1
Flammability : 2
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.

ISSUE DATE: 1/15/1990

REVISION DATE: 4/15/2015

1. PRODUCT AND COMPANY IDENTIFICATION**GHS PRODUCT IDENTIFIER:**

TRADE NAME: CHEMSAFE 400

OTHER MEANS OF IDENTIFICATION:**RECOMMENDED USE OF THE CHEMICAL AND RESTRICTIONS ON USE:**

RECOMMENDED USE: ADHESIVE REMOVER

SUPPLIER'S DETAILS:

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)

ACUTE TOXICITY-ORAL

CATEGORY 4

SKIN CORROSION IRRITATION

CATEGORY 1B

SERIOUS EYE DAMAGE IRRITATION

CATEGORY 1

SPECIFIC TARGET ORGAN SYSTEMIC

CATEGORY 3

TOXICITY-SINGLE EXPOSURE, CENTRAL NERVOUS SYSTEM, RESPIRATORY TRACT

LABEL ELEMENTS:**SIGNAL WORD: DANGER****HAZARD STATEMENTS:**

Harmful if swallowed

Causes severe skin burns and eye damage

Causes serious eye damage

May cause respiratory irritation

May cause drowsiness or dizziness

HAZARD SYMBOLS:



PRECAUTIONARY STATEMENTS:

Keep container tightly closed.
Do not breathe dust/fume/gas/mist/vapors/spray.
Wash hands, face and all exposed skin areas after handling.
Do not eat, drink, or smoke when using this product.
Use only outdoors or in a well ventilated area.
Wear protective gloves/protective clothing/eye protection/face protection

PRECAUTIONARY STATEMENTS (RESPONSE):

IF SWALLOWED: Rinse mouth. Do not induce vomiting. Immediately call a doctor or physician

IF ON SKIN: Rinse skin with water shower. Take off immediately all contaminated clothing. Wash contaminated clothing before reuse. Immediately call a doctor or physician.

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a doctor or physician.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if easy to do. Continue rinsing. Immediately call a doctor or physician.

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

PRECAUTIONARY STATEMENTS (STORAGE):

Store in a well ventilated place, keep container tightly closed. Store locked up.

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
2-BUTOXYETHANOL	111-76-2	PROPRIETARY
MONOETHANOLAMINE	141-43-5	PROPRIETARY

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

4. FIRST AID MEASURES

INGESTION: If swallowed, call a poison control center immediately. Wash out mouth with water. Do not induce vomiting. 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. 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 and/or CNS symptoms such as dizziness,

confusion, drowsiness or fatigue.

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 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.

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.

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. 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
2-butoxyethanol 111-76-2	TWA 20ppm	TWA 50ppm TWA 240mg/m3	IDLH 700ppm
Monoethanolamine	TWA3ppm 8 hours	TWA 3ppm 8 hours	

Appropriate Engineering Controls

Engineering Controls: Use only 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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: straw colored liquid

Odor: mild detergent

Odor threshold: not available

pH: 10.8-11.4

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: 1.1

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

11. TOXICOLOGICAL INFORMATION

Acute toxicity: classified, oral category 4

Monoethanolamine, 141-43-5 Oral LD50 1089 mg/kg rat

2-butoxyethanol 111-76-2: Oral LD50 1414mg/kg guinea pig

Skin corrosion irritation: classified, Category 1B, Causes severe skin burns and eye damage,
Monoethanolamine, 141-43-5

Serious Eye damage: classified, Category 1, Causes serious eye damage, Monoethanolamine, 141-43-5

Sensitization: Not classified

Mutagenicity: Not classified

Carcinogenicity: Not classified

Reproductive Toxicity: Not Classified

Teratogenicity: Not Available

Specific target Organ Toxicity (single exposure):

<u>Name</u>	<u>category</u>	<u>route of exposure</u>	<u>target organs</u>
2-butoxyethanol 111-76-2,	3,	inhalation	narcotic effects, drowsiness or dizziness
Monoethanolamine,	3,	inhalation	irritation of respiratory tract

Specific target Organ Toxicity (repeated exposure)

Not Classified

Aspiration Hazard: No data

Information on the likely routes of exposure:

Ingestion: Harmful if swallowed

Inhalation: May cause respiratory irritation. May cause drowsiness or dizziness

Skin: Causes severe skin burns and eye damage.

Eye: Causes serious eye damage.

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:**

<u>Ingredient name</u>	<u>Result</u>	<u>Species</u>	<u>Exposure</u>
Monoethanolamine, EC50	65mg/l	daphnia	48 hrs

Persistence and degradability:

Monoethanolamine: >90% readily biodegradable after 21 days

2-butoxyethanol: 90.4% readily biodegradable after 28 days.

Bioaccumulation Potential:

Monoethanolamine: low

2-butoxyethanol: BCF 3.16, This material is not expected to bioaccumulate

Mobility in Soil:

2-butoxyethanol: low adsorption to soil particulates predicted

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

IATA: 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 HAZARD	PRESSURE RELEASE	REACTIVE	IMMEDIATE ACUTE	DELAYED CHRONIC
monoethanolamine	PROPRIETARY				YES	
2-butoxyethanol 111-76-2	PROPRIETARY	YES			YES	YES

SARA 313

2-butoxyethanol 111-76-2 PROPRIETARY, REPORTING THRESHOLD-1%

STATE REGULATIONS:

Ingredient	New York	New Jersey	Massachusetts	Pennsylvania
Monoethanolamine 141-43-5		yes	yes	yes
2-butoxyethanol 111-76-2	No	Yes	Yes	yes

California Prop 65: none known to meet requirements.

16. OTHER INFORMATION

HMIS RATING: HEALTH (2) 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.

ISSUE DATE: 1/15/1990

REVISION DATE: 4/15/2015

1. PRODUCT AND COMPANY IDENTIFICATION**GHS PRODUCT IDENTIFIER:**

TRADE NAME; CHEMSAFE CLEAR (CARB COMPLIANT)

OTHER MEANS OF IDENTIFICATION:**RECOMMENDED USE OF THE CHEMICAL AND RESTRICTIONS ON USE:**

RECOMMENDED USE: Mastic Removal

SUPPLIER'S DETAILS:**Aramco**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)

ASPIRATION HAZARD
SERIOUS EYE DAMAGE IRRITATIONCATEGORY 1
CATEGORY 2A**LABEL ELEMENTS:****SIGNAL WORD: DANGER****HAZARD STATEMENTS:**Causes serious eye irritation
May be fatal if swallowed and enters airways

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

PRECAUTIONARY STATEMENTS (RESPONSE):

IF SWALLOWED: Immediately call a poison center or doctor or physician. Do not induce vomiting.

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):

Store locked up.

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
DISTILLATES, PETROLEUM HYDROTREATED, LIGHT	64742-47-8	PROPRIETARY
BUTOXYDIGLYCOL	112-34-5	PROPRIETARY

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

4. FIRST AID MEASURES

INGESTION: If swallowed, wash out mouth with water. Do not induce vomiting, this product is an aspiration hazard. 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 immediately.

EYE CONTACT: 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 may include irritation of respiratory tract and/or CNS symptoms such as dizziness, confusion, drowsiness or fatigue.

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, possibly consisting of water spray, dry chemical, carbon dioxide, or foam.

Unsuitable extinguishing media- Do not use water jet.

Specific hazards arising from the chemical: In a fire or if heated, a pressure increase will occur and the container may burst. Material will burn in a fire. Flash point is over 200F. Material will emulsify and not directly float with water spray and emulsion could aid in not exacerbating fire.

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. Provide adequate ventilation. Avoid breathing vapor or mists. Put on appropriate personal protective equipment. Wear appropriate respirator when ventilation is inadequate.

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 soil, 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 non combustible 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 non combustible 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. Store and use away from heat, sparks, open flame or any other ignition source. No smoking. 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 remain hazardous. Do not reuse, flame cut, braze or weld container and observe all sds information around empty containers 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. Store locked up. Eliminate all ignition sources. Keep container tightly closed when not in use. Do not store in unlabeled containers.

8. EXPOSURE CONTROLS/ PERSONAL PROTECTION**Control Parameters****Occupational Exposure Limits**

Ingredient Identity	ACGIH TLV	OSHA PEL	NIOSH IDLH
----------------------------	------------------	-----------------	-------------------

Butoxydiglycol 112-34-5	TWA 10ppm		
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Distillates, Petroleum TWA:skin absorption 200mg/m³ (as total hydrocarbon vapor) 8 hours
Hydrotreated, Light 64742-47-8

Appropriate Engineering Controls

Engineering Controls: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants and 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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: clear liquid

Odor: near odorless

Odor threshold: not available

pH: not applicable

Melting Point/Freezing Point: -56F

Initial Boiling Point/Range: 344F-473F

Flash Pt: >200F lowest ingredient, does not sustain combustion

Evaporation Rate: <1 (butyl acetate=1)

Lower explosive limits: .6%Aliphatic Solvent

Upper explosive limits: 5.5%Aliphatic Solvent

Vapor Pressure: meets CARB guidelines

Vapor Density: 4.5-5 (air=1)

Relative Density: .84

Solubility in water: Emulsifies

Partition coefficient: not applicable

Auto ignition temp: >428F

Decomposition Temp: not available

Viscosity: pourable liquid

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: Open flames, sparks

Incompatible Materials: Oxidizing materials

Hazardous Decomposition Products: Carbon monoxide and Carbon Dioxide

11. TOXICOLOGICAL INFORMATION

Acute toxicity: Not classified,

Skin corrosion irritation: not classified,

Serious Eye damage: classified, Category 2, Causes serious eye irritation, Butoxydiglycol 112-34-5

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:

Distillate petroleum hydrotreated, light 64742-47-8 , Aspiration Hazard Category 1

Information on the likely routes of exposure:

Ingestion: May be harmful if swallowed. May be fatal if swallowed and enters airways.

Inhalation: Do not breathe vapors or mists.

Skin: May be harmful in contact with skin.

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:**

<u>Ingredient name</u>	<u>Result</u>	<u>Species</u>	<u>Exposure</u>
Distillate Petroleum, Hydrotreated, light	Chronic NOEL 0.48 mg/l	Daphnia	21 days

Persistence and degradability:

Distillate Petroleum: Biodegradability-inherent
Hydrotreated

Butoxydiglycol 112-34-5: readily biodegradable

Bioaccumulation Potential:

Not expected to bioaccumulate

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.

14. TRANSPORTATION INFORMATION

DOT: NOT REGULATED
IATA: 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

Ingredient	%	FIRE HAZARD	PRESSURE RELEASE	REACTIVE	IMMEDIATE ACUTE	DELAYED CHRONIC
Distillate Petroleum, Hydrotreated	80-95	YES	NO	NO	NO	NO
Butoxydiglycol 112-34-5	PROPRIETARY				YES	YES

SARA 313: butoxydiglycol, <12%

STATE REGULATIONS:

Ingredient	New York	New Jersey	Massachusetts	Pennsylvania
Distillate Petroleum Hydrotreated. 64742-47-8	No	No	No	No
Butoxydiglycol 112-34-5	No	Yes	Yes	yes

California Prop 65: none known

16. OTHER INFORMATION

HMIS RATING: HEALTH (1) FIRE (1) 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.



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: 09/30/2015

Supersedes: All previous versions

Version: 1.1

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)



GHS07



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

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

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*

*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.

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

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

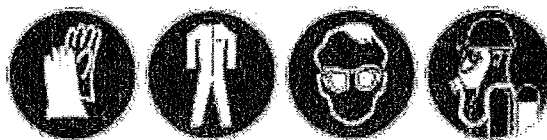
8.2. Exposure controls

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.

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

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
pH	: 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)
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
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Explosive limits	: No data available

9.2. Other information

VOC content	: This floor or wall covering adhesive remover contains less than 5% V.O.C. content by weight. *When determining VOC content in accordance with the requirements set forth by the Ozone Transport Commission (OTC), effective 01-01-2009
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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
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Sentinel 626 Carpet Adhesive Remover

(VOC Compliant) Safety Data Sheet

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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.

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

SECTION 14: Transport information

In accordance with DOT

Transport document description : Cleaning Compound

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 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

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

SECTION 16: Other information

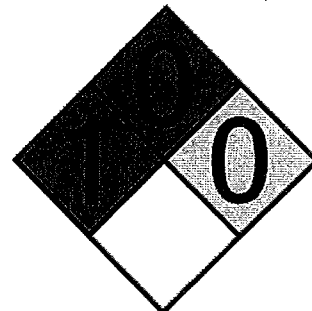
Indication of changes : Revision 1.1 – 30 September 2015

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.



Sentinel 717 Gel Mastic Remover

Safety Data Sheet

Prepared according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations
Revision date: 02/22/2016 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 717 Gel Mastic Remover
Product form : Mixture

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

Use of the substance/mixture : Mastic 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)

Flammable Liquid Category 4	H227
Skin Irritation Category 1	H314
Eye Irritation Category 1	H318
Skin Sensitization Category 1	H317
Specific Target Organ Toxicity (Single Exposure)	H336
[Narcotic effects] Category 3	
Aspiration Toxicity Category 1	H304
Chronic Aquatic Toxicity Category 3	H412

2.2. Label elements

GHS-US labeling

Hazard pictograms (GHS-US) :



Signal word (GHS-US) :

Danger

Hazard statements (GHS-US) :

H227 - Combustible liquid
H314 - Causes severe skin burns and eye damage
H318 - Causes serious eye damage
H317 - May cause an allergic skin reaction
H336 - May cause drowsiness or dizziness
H304 - May be fatal if swallowed and enters airways
H412 - Harmful to aquatic life with long lasting effects
P210 - Keep away from heat, open flames, sparks. - No smoking.
P260 - Do not breathe mists.
P261 - Avoid breathing vapors/spray.
P271 - Use only outdoors or in a well-ventilated area.
P272 - Contaminated work clothing should not be allowed out of the workplace
P264 - Wash hands thoroughly after handling.
P280 - Wear eye protection, protective clothing, protective gloves
P303+P361+P353 - IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin/hair with water/shower.
P352 - Wash with plenty of soap and water.
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
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.
P301+P310+P330+P331 - IF SWALLOWED: Immediately call a POISON CENTER or

Sentinel 717 Gel Mastic Remover

Safety Data Sheet

Prepared according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

doctor/physician. Rinse mouth. Do NOT induce vomiting.
P273 - Avoid release to the environment.
P370+P378 - In case of fire: Use dry chemical, foam, CO2 for extinction.
P403+P233+P235 - Store in a well-ventilated place. Keep container tightly closed. Keep cool.
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	%
Petroleum distillates, hydrotreated light	(CAS No) 64742-47-8	Proprietary*
Solvent naphtha, petroleum, heavy aromatic	(CAS No) 64742-94-5	Proprietary*
2-(2-butoxyethoxy)ethanol	(CAS No) 112-34-5	Proprietary*
2-aminoethanol	(CAS No) 141-43-5	Proprietary*
Surfactant Blend	(CAS No) Proprietary*	Proprietary*
Fragrance	(CAS No) Mixture	Proprietary*

*The exact product identification and/or 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: If breathing difficulties, dizziness, or light headedness occur when working in areas with high vapor concentration, remove to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician. If breathing stops, begin artificial respiration and seek immediate medical attention.
First-aid measures after skin contact	: IF ON SKIN: Remove contaminated clothing. Immediately rinse with plenty of mild soap and water (for at least 15 minutes). 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 of excessive concentration of vapors or mists may cause irritation of the nose and throat and signs of nervous system depression (e.g. drowsiness, dizziness, loss of coordination and fatigue). Persons with impaired lung function or asthma-like conditions may experience additional breathing difficulties due to the irritant properties of the material.
Symptoms/injuries after skin contact	: Contact may cause irritation. Prolonged or repeated exposure to this material may cause redness, burning, drying or cracking of the skin or dermatitis. Persons with pre-existing skin disorders may be more susceptible to the effects of this material.
Symptoms/injuries after eye contact	: Direct contact with the eyes is likely to be irritating. May cause burning, tearing or redness.
Symptoms/injuries after ingestion	: This material causes irritation of the stomach and intestines and signs of nervous system depression. Acute exposure may result in narcosis, pulmonary edema and severe kidney and liver damage.
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.
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5.2. Special hazards arising from the substance or mixture

Fire hazard	: This material is an NFPA IIIA combustible liquid.
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.

Sentinel 717 Gel Mastic Remover

Safety Data Sheet

Prepared according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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. The use of SCBA is recommended for fire fighters.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

- General measures : Evacuate area. Keep upwind. Ventilate area. Keep all sources of ignition and hot metal surfaces away from spill. 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.

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. Keep away from sources of ignition - No smoking.

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

Petroleum distillates, hydrotreated light (64742-47-8)	
Remark (ACGIH)	OELs not established
Remark (US OSHA)	OELs not established
Solvent naphtha, petroleum, heavy aromatic (64742-94-5)	
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
2-aminoethanol (141-43-5)	
Remark (ACGIH)	TWA - 3 PPM, STEL - 6 PPM
Remark (US OSHA)	TWA - 3 PPM

Sentinel 717 Gel Mastic Remover

Safety Data Sheet

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Surfactant Blend (Proprietary)	
Remark (ACGIH)	OELs not established
Remark (US OSHA)	OELs not established

Fragrance (Mixture)	
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. Mechanical ventilation may be necessary to contain air contaminants below the PEL or TLV.

Personal protective equipment

: Gloves. Protective clothing. Protective goggles. Respiratory protection of the dependent type.



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

: It is suggested a source of clean water be available in the work area for flushing eyes and skin. Impervious clothing should be worn as needed.

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	: Viscous liquid
Appearance	: Clear
Color	: None
Odor	: Citrus
Odor Threshold	: No data available
pH	: Not applicable
Relative evaporation rate (butyl acetate=1)	: Slower than ether
Melting point	: No data available
Freezing point	: No data available
Boiling point	: 243°C (470 °F) Note: Minimum.
Flash point	: 63 °C (145 °F) Note: Minimum. Method: PMCC
Self ignition temperature	: 216°C (421 °F) Note: Approximate.
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapor pressure	: < 0.5 mm Hg at 68 °F
Relative vapor density at 20 °C	: Heavier than air.
Relative density	: No data available
Solubility	: No data available
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

VOC content : < 15 g/L

*When determining VOC content in accordance with the requirements set forth by the Ozone Transport Commission (OTC), effective 01-01-2009

Sentinel 717 Gel Mastic Remover

Safety Data Sheet

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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 : Strong oxidizing agents.

10.6. Hazardous decomposition products

Thermal decomposition generates : Carbon oxides (CO, CO₂).

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Petroleum distillates, hydrotreated light (64742-47-8)	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rabbit	> 2000 mg/kg
LC50 inhalation rat (mg/l)	> 5.2 mg/l/4h

Solvent naphtha, petroleum, heavy aromatic (64742-94-5)	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rabbit	> 2000 mg/kg
LC50 inhalation rat (mg/l)	> 590 mg/m ³ 4h

2-(2-butoxyethoxy)ethanol (112-34-5)	
LD50 oral rat	> 4500 mg/kg
LD50 dermal rabbit	> 2500 mg/kg

2-aminoethanol (141-43-5)	
LD50 oral rat	> 1500 mg/kg
LD50 dermal rabbit	> 1000 mg/kg

Surfactant Blend (Proprietary) No data for mixture - information noted is the minimum within blend components.	
LD50 oral rat	> 1400 mg/kg
LD50 dermal rabbit	> 2000 mg/kg

Skin corrosion/irritation : Skin Irritant Category 1

Serious eye damage/irritation : Eye Irritant Category 1

Respiratory or skin sensitization : Skin sensitizer

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

Specific target organ toxicity (single exposure) : Category 3 - may cause drowsiness or dizziness.

Specific target organ toxicity (repeated exposure) : Not classified

Aspiration hazard : May be fatal if swallowed and enters airways.

Symptoms/injuries after inhalation : Inhalation of excessive concentration of vapors or mists may cause irritation of the nose and throat and signs of nervous system depression (e.g. drowsiness, dizziness, loss of coordination and fatigue). Persons with impaired lung function or asthma-like conditions may experience additional breathing difficulties due to the irritant properties of the material.

Symptoms/injuries after skin contact : Contact may cause irritation. Prolonged or repeated exposure to this material may cause redness, burning, drying or cracking of the skin or dermatitis. Persons with pre-existing skin disorders may be more susceptible to the effects of this material.

Symptoms/injuries after eye contact : Direct contact with the eyes is likely to be irritating. May cause burning, tearing or redness.

Sentinel 717 Gel Mastic Remover

Safety Data Sheet

Prepared according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Symptoms/injuries after ingestion	: This material causes irritation of the stomach and intestines and signs of nervous system depression. Acute exposure may result in narcosis, pulmonary edema and severe kidney and liver damage.
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.

SECTION 14: Transport information

In accordance with DOT

Transport document description : Cleaning Compound

Department of Transportation (DOT) Hazard Classes : Not Regulated

Other information : Not regulated in pkg. of less than 119 gal.

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 717 Gel Mastic Remover

SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard Fire hazard
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Petroleum distillates, hydrotreated light (64742-47-8)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Solvent naphtha, petroleum, heavy aromatic (64742-94-5)

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

2-aminoethanol (141-43-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Surfactant Blend (Proprietary)

Components Listed on the United States TSCA (Toxic Substances Control Act) inventory

15.2. International regulations

CANADA

Sentinel 717 Gel Mastic Remover

Safety Data Sheet

Prepared according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Petroleum distillates, hydrotreated light (64742-47-8)

Listed on the Canadian DSL (Domestic Substances List) inventory.

Solvent naphtha, petroleum, heavy aromatic (64742-94-5)

Listed on the Canadian DSL (Domestic Substances List) inventory.

2-(2-butoxyethoxy)ethanol (112-34-5)

Listed on the Canadian DSL (Domestic Substances List) inventory.

No additional information available

15.2.2. National regulations

Petroleum distillates, hydrotreated light (64742-47-8)

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.

Solvent naphtha, petroleum, heavy aromatic (64742-94-5)

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.

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.

15.3. US State regulations

Naphthalene (91-20-3)

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 significance risk level (NSRL)
Yes				

Naphthalene (91-20-3)

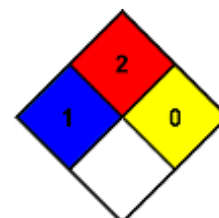
U.S. - Massachusetts - Right To Know List
U.S. - New Jersey - Right to Know Hazardous Substance List
U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List

SECTION 16: Other information

Indication of changes : Revision 1.0 – 2 February 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 : 2 - Must be moderately heated or exposed to relatively high temperature before ignition can occur.
NFPA reactivity : 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.



HMIS III Rating

Health : 1
Flammability : 2
Physical : 0
Personal Protection : H

Sentinel 717 Gel Mastic Remover

Safety Data Sheet

Prepared according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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.



Sentinel PL-145 Low Odor Mastic Remover (VOC Compliant)

Safety Data Sheet

Prepared according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Revision date: 11/02/2015

Supersedes: All previous versions

Version: 1.1

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

1.1. Product identifier

Product name : Sentinel PL-145 Low Odor Mastic Remover (VOC Compliant)
Product form : Mixture

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

Use of the substance/mixture : Mastic 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)

Flammable Liquid Category 4	H227
Aspiration Toxicity Category 1	H304
Skin Irritation Category 2	H315
Eye Irritation Category 2	H319

2.2. Label elements

GHS-US labeling

Hazard pictograms (GHS-US)



GHS08

GHS07

Signal word (GHS-US)

: **Danger**

Hazard statements (GHS-US)

: H227 - Combustible liquid
H315 - Causes skin irritation
H319 - Causes serious eye irritation
H304 - May be fatal if swallowed and enters airways
P210 - Keep away from heat, open flames, sparks. - No smoking
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.
P337+P313 - If eye irritation persists: Get medical advice/attention.
P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
P331 - If swallowed, do NOT induce vomiting
P370+P378 - In case of fire: Use dry chemical, foam, CO2 for extinction
P403+P235 - Store in a well-ventilated place. Keep cool
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

Sentinel PL-145 Low Odor Mastic Remover (VOC Compliant)

Safety Data Sheet

Prepared according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

Name	Product identifier	%
Petroleum distillates, hydrotreated light	(CAS No) 64742-47-8	Proprietary*
Solvent naphtha, petroleum, heavy aromatic	(CAS No) 64742-94-5	Proprietary*
2-(2-butoxyethoxy)ethanol	(CAS No) 112-34-5	Proprietary*
Surfactant	(CAS No) Proprietary*	Proprietary*

*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 : 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). 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. Solvent vapors are hazardous and may cause nausea, sickness and headaches. Aspiration of this material into the lungs may cause chemical pneumonia or death.
- Symptoms/injuries after skin contact : Contact during a long period may cause light irritation.
- Symptoms/injuries after eye contact : Direct contact with the eyes is likely to be irritating.
- Symptoms/injuries after ingestion : Acute ingestion causes CNS depression, oropharyngeal and gastric pain and vomiting.
- 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

- Fire hazard : This material is an NFPA IIIA combustible liquid.
- 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.

Sentinel PL-145 Low Odor Mastic Remover (VOC Compliant)

Safety Data Sheet

Prepared according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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. 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. Keep away from sources of ignition - No smoking.

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

Petroleum distillates, hydrotreated light (64742-47-8)	
Remark (ACGIH)	OELs not established
Remark (US OSHA)	OELs not established
Solvent naphtha, petroleum, heavy aromatic (64742-94-5)	
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.

Personal protective equipment : Gloves. Protective clothing. Protective goggles. Respiratory protection of the dependent type.



Sentinel PL-145 Low Odor Mastic Remover (VOC Compliant)

Safety Data Sheet

Prepared according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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.

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	: Mild solvent odor
Odor Threshold	: No data available
pH	: Not applicable
Relative evaporation rate (butyl acetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: 184 - 194 °C (363-381 °F)
Flash point	: 77 °C (170 °F) Note: Minimum. Method: PMCC
Self ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapor pressure	: < 0.5 mm Hg @ 68 °F
Relative vapor density at 20 °C	: Heavier than air.
Relative density	: No data available
Solubility	: No data available
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

VOC content	: < 45 g/l
*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.

Sentinel PL-145 Low Odor Mastic Remover (VOC Compliant)

Safety Data Sheet

Prepared according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

10.5. Incompatible materials

Avoid contact with : Oxidizing agent.

10.6. Hazardous decomposition products

Thermal decomposition generates : Carbon oxides (CO, CO₂).

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

Petroleum distillates, hydrotreated light (64742-47-8)	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rabbit	> 2000 mg/kg
LC50 inhalation rat (mg/l)	> 5.2 mg/l/4h

Solvent naphtha, petroleum, heavy aromatic (64742-94-5)	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rabbit	> 2000 mg/kg
LC50 inhalation rat (mg/l)	> 590 mg/m ³ 4h

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 2

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. Solvent vapors are hazardous and may cause nausea, sickness and headaches. 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.

Symptoms/injuries after ingestion : Acute ingestion causes CNS depression, oropharyngeal and gastric pain and vomiting.

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

Sentinel PL-145 Low Odor Mastic Remover (VOC Compliant)

Safety Data Sheet

Prepared according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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.

SECTION 14: Transport information

In accordance with DOT

Transport document description : Cleaning Compound

Department of Transportation (DOT) Hazard Classes : Not Regulated – Product does not sustain combustion

Other information : Not regulated in pkg. of less than 119 gal.

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 PL-145 Low Odor Mastic 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 Fire hazard
-------------------------------------	--

Petroleum distillates, hydrotreated light (64742-47-8)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Solvent naphtha, petroleum, heavy aromatic (64742-94-5)

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

Petroleum distillates, hydrotreated light (64742-47-8)

Listed on the Canadian DSL (Domestic Substances List) inventory.

Solvent naphtha, petroleum, heavy aromatic (64742-94-5)

Listed on the Canadian DSL (Domestic Substances List) inventory.

2-(2-butoxyethoxy)ethanol (112-34-5)

Listed on the Canadian DSL (Domestic Substances List) inventory.

Sentinel PL-145 Low Odor Mastic Remover (VOC Compliant)

Safety Data Sheet

Prepared according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Surfactant (Proprietary*)

Listed on the Canadian DSL (Domestic Substances List) inventory.

No additional information available

15.2.2. National regulations

Petroleum distillates, hydrotreated light (64742-47-8)

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.

Solvent naphtha, petroleum, heavy aromatic (64742-94-5)

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.

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.

5.3. US State regulations

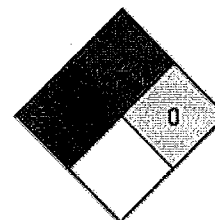
Naphthalene (91-20-3)				
U.S. - California - Proposition 65 - Carcinogens List	U.S. - California - Proposition 65 - Developmental Toxicity	U.S. - California - Proposition 65 - Reproductive Toxicity - Female	U.S. - California - Proposition 65 - Reproductive Toxicity - Male	No significance risk level (NSRL)
Yes				

Naphthalene (91-20-3)	
U.S. - Massachusetts - Right To Know List U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List	

SECTION 16: Other information

Indication of changes : Revision 1.1 - 02 November 2015
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 : 2 - Must be moderately heated or exposed to relatively high temperature before ignition can occur.
NFPA reactivity : 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.



Sentinel PL-145 Low Odor Mastic Remover (VOC Compliant)

Safety Data Sheet

Prepared according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

HMIS III Rating

Health	: 1
Flammability	: 2
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

Smart Strip Pro

SECTION 1 Identification

Product Name: Smart Strip Pro

SDS Number:

Recommended use: Paint remover.

Restrictions on use: Use only as directed

Manufactured for:

DUMOND CHEMICALS, INC

1475 Phoenixville Pike

Suite 18

West Chester, Pennsylvania 19380

(609)-655-7700

Emergency phone number: (800)457-4280 (InfoTrac) #79363

SDS Date of Preparation: 03/28/18

SECTION 2: Hazard(S) Identification

Classification:

Physical	Health
Not Hazardous	Skin Irritation Category 2 Eye Damage Category 1

Label Requirements:



Danger!

Hazard statement(s)

Causes skin irritation.

Causes serious eye damage.

Prevention

Wash thoroughly after handling.

Wear protective gloves and eye protection.

Precautionary statement(s)

Response

IF ON SKIN: Wash with plenty of soap and water.

If skin irritation occurs: Get medical attention. Take off contaminated clothing and wash it before reuse.

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.

SECTION 3: Composition / Information On Ingredients

Chemical name	CAS No.	Concentration
Water	7732-18-5	40-60%
Benzyl Alcohol	100-51-6	30-50%
Kaolin	92704-41-1	1-5%
Glycolic Acid	79-14-1	1-4%

Section 4. First-Aid Measures

Eye Contact: Immediately flush eyes with water for 15 minutes while lifting the upper and lower lids. Get immediate medical attention.

Skin Contact: Wash with soap and water. Remove contaminated clothing and launder before reuse. Get medical attention if irritation develops or persists.

Inhalation: If symptoms of exposure develop, remove to fresh air. If breathing becomes difficult, administer oxygen and seek medical attention.

Ingestion: Rinse mouth with water. Do not induce vomiting unless directed to do so by a medical professional. Get medical attention if symptoms develop.

Most important symptoms/effects, acute and delayed: Causes severe eye burns with possible damage. Causes skin irritation. Inhalation of vapors may cause upper respiratory tract irritation. May be harmful if swallowed.

Indication of immediate medical attention and special treatment, if necessary: Immediate medical attention is required for eye contact.

SECTION 5 FIRE and EXPLOSION HAZARD DATA

Suitable extinguishing media: Use water fog, carbon dioxide, alcohol-foam or dry chemical to extinguish the fire.

Specific hazards arising from the chemical: Product is not flammable. Burning may produce carbon monoxide, carbon dioxide, and nitrogen oxides.

Special protective equipment and precautions for fire-fighters: Firefighters should wear full emergency equipment and NIOSH approved positive pressure self-contained breathing apparatus.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment, and emergency procedures: Ventilate area. Wear appropriate protective clothing and equipment (See Section 8).

Environmental hazards: Prevent runoff to storm sewers and ditches leading to natural waterways. Report spill as required by local and federal regulations.

Methods and materials for containment and cleaning up: Collect material using inert absorbents and dispose of in a suitable container.

SECTION 7 HANDLING and STORAGE

Precautions for safe handling Avoid contact with the eyes, skin and clothing. Avoid breathing vapors or mists. Use only with adequate ventilation. Remove and launder contaminated clothing before re-use. Wash exposed skin with soap and water after use.

Empty containers retain product residues. Do not cut, weld, braze, etc. on or near empty containers. Follow all SDS precautions in handling empty containers.

Conditions for safe storage, including any incompatibilities: Protect containers from physical damage. Store in a cool, well ventilated area away from oxidizing agents and other incompatible materials.

SECTION 8 EXPOSURE CONTROLS and PERSONAL PROTECTION

Exposure guidelines:

Water	None Established
Benzyl Alcohol	None Established
Kaolin	2 mg/m ³ TWA ACGIH TLV (Respirable) 15 mg/m ³ TWA OSHA PEL (Total dust) 5 mg/m ³ TWA OSHA PEL (Respirable)
Glycolic Acid	None Established

Appropriate engineering controls: Good general room ventilation should be adequate under normal conditions. If the recommended exposure limit is exceeded increased mechanical ventilation such as local exhaust may be required.

Individual protection measures, such as personal protective equipment:

Respiratory Protection: Good general ventilation should be adequate under normal conditions. In operations where exposure limits are exceeded, a NIOSH approved respirator with particulate 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 OSHA 1910.134 and good industrial hygiene practice.

Skin protection: Impervious gloves such as butyl rubber are recommended for operations which may result in prolonged or repeated skin contact.

Eye protection: Chemical safety glasses with side-shields are recommended if splashing may occur.

Other: Appropriate protective clothing as needed to prevent prolonged/ repeated skin contact. Suitable washing and eye flushing facilities should be available in the work area.

SECTION 9 PHYSICAL and CHEMICAL PROPERTIES

Appearance and Odor: White viscous liquid with a faint aromatic odor.

Odor threshold: Not available	pH: 2-3
Melting point/freezing point: 5°F / -15°C	Boiling point: 205°F / 96°C
Flash point: No flash	Evaporation rate: <1
Flammability (solid, gas): Not applicable	VOC Content: 0 lbs/gal*
Flammable limits: LEL: Not applicable	UEL: Not applicable
Vapor pressure: 0.1 mmHg @ 30°C	Vapor density: 3-4
Relative density: 10.54 lbs/gal	Solubility in Water: Moderately
Partition coefficient: n-octanol/water: Not applicable	Auto-ignition temperature: Not applicable
Decomposition temperature: Not applicable	Viscosity: Not available

*Benzyl Alcohol and Glycolic acid are exempt from VOC calculations as LVP VOC.

SECTION 10 STABILITY and REACTIVITY

Reactivity: Not expected to be reactive.

Chemical stability: This material is stable.

Possibility of hazardous reactions: None known.

Conditions to avoid: None known.

Incompatible materials: Avoid strong acids, bases, reducing agents, and strong oxidizing agents.

Hazardous decomposition products: Thermal decomposition may yield toxic carbon monoxide, carbon dioxide, and nitrogen oxides. May oxidizing with air to form bezaldehyde and benzoic acid.

SECTION 11 TOXICOLOGICAL INFORMATION

HEALTH HAZARDS:

Inhalation: Excessive inhalation of vapors and mists may cause upper respiratory tract irritation.

Skin Contact: Causes irritation with redness.

Eye Contact: May cause slight eye irritation with redness and tearing.

Ingestion: May be harmful if swallowed.

Chronic Effects of Overexposure: None known.

Sensitization: None of the components are known to cause sensitization in animals or humans.

Reproductive Toxicity: None of the components are found to present reproductive toxicity.

Mutagenicity: None of the components have been found to be mutagenic.

Carcinogenicity: None of the components are listed as a carcinogen or suspect carcinogen by NTP, IARC or OSHA.

ACUTE TOXICITY VALUES:

Acute Toxicity Estimate: Oral >2000 mg/kg

Benzyl Alcohol: Oral rat LD50 1230 mg/kg; Dermal rabbit LD50 >2000 mg/kg; Inhalation rat LC50 8.8 mg/L/4hr

Glycolic Acid: Oral rat LD50 2040 mg/kg; Inhalation rat LC50 >5.2 mg/L/4hr

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity:

Benzyl Alcohol: Anabaena variabilis EC50 35 mg/L/3hr; Pimephales promelas LC50 460 mg/L/96 hr; Lepomis macrochirus LC50 10 mg/L/96hr; Daphnia magna EC50 23 mg/L/48hr

Persistence and degradability: Material is readily biodegradable.

Bioaccumulative potential: Material has a low potential for bioaccumulation.

Mobility in soil: No data available.

Other adverse effects: None known.

SECTION 13: DISPOSAL INFORMATION

WASTE DISPOSAL METHOD: Dispose in accordance with all local, state and federal regulations.

SECTION 14: TRANSPORTATION INFORMATION

	UN Number	Proper shipping name	Hazard Class	Packing Group	Environmental Hazard
DOT		Not Regulated			

Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code): Not applicable – product is transported only in packaged form.

Special precautions: None Known

SECTION 15: REGULATORY INFORMATION

Safety, health, and environmental regulations specific for the product in question.

EPA SARA 302: This product does not contain chemicals regulated under SARA Section 302.

EPA SARA 311 Hazard Classification: Refer to Section 2 for OSHA Hazard Classification.

EPA SARA 313: This product contains the following chemicals regulated under SARA Title III, section 313: None.

CERCLA Hazardous Substances (Section 103)/RQ: This product is not subject to CERCLA reporting requirements as it is sold. Many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations.

Toxic Substances Control Act: All of the components of this product are listed on the TSCA inventory.

California Proposition 65: This product contains the following chemicals which are known to the State of California to cause cancer and reproductive toxicity: None known

SECTION 16: OTHER INFORMATION

NFPA Rating: Health = 3 Flammability = 1 Instability = 0

SDS Revision History: New SDS.

Date of preparation: March 28, 2018

Date of last revision: New SDS

SAFETY DATA SHEET

Zep inc

ZEP BIG ORANGE 55GL

Version 2.2

Revision Date 02/09/2016

Print Date 04/19/2016

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Material name : ZEP BIG ORANGE 55GL

Material number : 000000000000041585

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 Emergency : CHEMTREC: 800-424-9300 - All Calls Recorded.
In the District of Columbia 202-483-7616

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 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.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.

Precautionary statements : **Prevention:**
P210 Keep away from heat/sparks/open flames/hot surfaces.
No smoking.
P233 Keep container tightly closed.

SAFETY DATA SHEET

ZepInc

ZEP BIG ORANGE 55GL

Version 2.2

Revision Date 02/09/2016

Print Date 04/19/2016

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 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.
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 for extinction.
Storage:
P403 + P235 Store in a well-ventilated place. Keep cool.
P405 Store locked up.
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

Substance / Mixture : Mixture

Hazardous components

SAFETY DATA SHEET



ZEP BIG ORANGE 55GL

Version 2.2

Revision Date 02/09/2016

Print Date 04/19/2016

Chemical Name	CAS-No.	Concentration [%]
Citrus, ext.	94266-47-4	>= 70 - < 90
Nonylphenol, ethoxylated	9016-45-9	>= 1 - < 5
4-Nonylphenol branched, ethoxylated	127087-87-0	>= 1 - < 5

The exact percentages of disclosed substances are withheld as trade secrets.

SECTION 4. FIRST AID MEASURES

- General advice : Consult a physician.
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 : 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 : Alcohol-resistant foam
Carbon dioxide (CO2)
Dry chemical
Dry sand
- Unsuitable extinguishing media : High volume water jet
- Specific hazards during firefighting : Do not use a solid water stream as it may scatter and spread fire.
Cool closed containers exposed to fire with water spray.

Do not allow run-off from fire fighting to enter drains or water courses.

SAFETY DATA SHEET

ZepInc

ZEP BIG ORANGE 55GL

Version 2.2

Revision Date 02/09/2016

Print Date 04/19/2016

Do not allow run-off from fire fighting to enter drains or water courses.

- | | | |
|---|---|---|
| Hazardous combustion products | : | Carbon dioxide (CO ₂)
Carbon monoxide
Nitrogen oxides (NO _x)
Smoke
Carbon dioxide (CO ₂)
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 | : | In the event of fire, wear self-contained breathing apparatus.

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.
Material can create slippery conditions. |
| | : | 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 | : | Local authorities should be advised if significant spillages cannot be contained.

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 | : | Keep in suitable, closed containers for disposal.
Clean contaminated floors and objects thoroughly while observing environmental regulations.

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 |

SAFETY DATA SHEET

ZepInc

ZEP BIG ORANGE 55GL

Version 2.2

Revision Date 02/09/2016

Print Date 04/19/2016

local / national regulations (see section 13).

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.
Keep away from heat.
- Avoid formation of aerosol.
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.
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 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 oxidizing agents and strongly acid or alkaline materials.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Contains no substances with occupational exposure limit values.

- Engineering measures** : Handle only in a place equipped with local exhaust (or other appropriate exhaust).

Personal protective equipment

- Hand protection**
Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves.

SAFETY DATA SHEET

ZepInc

ZEP BIG ORANGE 55GL

Version 2.2

Revision Date 02/09/2016

Print Date 04/19/2016

- | | |
|--------------------------|---|
| Eye protection | : Safety glasses
Ensure that eyewash stations and safety showers are close to the workstation location.

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. |
| Protective measures | : Wear suitable protective equipment.
When using do not eat, drink or smoke. |
| Hygiene measures | : Wash hands before breaks and immediately after handling the product.
Remove contaminated clothing and protective equipment before entering eating areas.

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 |
| 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 |

SAFETY DATA SHEET

Zep inc

ZEP BIG ORANGE 55GL

Version 2.2

Revision Date 02/09/2016

Print Date 04/19/2016

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 : No decomposition if stored and applied as directed.

Chemical stability : Stable under normal conditions.
No decomposition if stored and applied as directed.

Possibility of hazardous reactions : No decomposition if stored and applied as directed.
Vapours may form explosive mixture with air.

Conditions to avoid : Extremes of temperature and direct sunlight.
Heat, flames and sparks.
Heat, flames and sparks.

Incompatible materials : Acids
Oxidizing agents

Hazardous decomposition products : Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).
Nitrogen oxides (NO_x)

SECTION 11. TOXICOLOGICAL INFORMATION

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:

4-Nonylphenol branched, ethoxylated:

Acute oral toxicity : LD50 Rat: 5,000 mg/kg

SAFETY DATA SHEET

ZepInc

ZEP BIG ORANGE 55GL

Version 2.2

Revision Date 02/09/2016

Print Date 04/19/2016

Acute dermal toxicity : LD50 Rabbit: 2,573 mg/kg

Skin corrosion/irritation

Product:

Remarks: May cause skin irritation and/or dermatitis.

Serious eye damage/eye irritation

Product:

Remarks: Severe eye irritation

Remarks: May cause irreversible eye damage.

Respiratory or skin sensitisation

Product:

Remarks: Causes sensitisation.

Germ cell mutagenicity

No data available

Carcinogenicity

No data available

Reproductive toxicity

No data available

Citrus, ext.:

Nonylphenol, ethoxylated:

4-Nonylphenol branched, ethoxylated:

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

SAFETY DATA SHEET

ZepInc

ZEP BIG ORANGE 55GL

Version 2.2

Revision Date 02/09/2016

Print Date 04/19/2016

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 : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal., Very toxic to aquatic life.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : Dispose of in accordance with local regulations.
Do not dispose of waste into sewer.
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.
Do not contaminate ponds, waterways or ditches with chemical or used container.
Send to a licensed waste management company.

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):

SAFETY DATA SHEET

ZepInc

ZEP BIG ORANGE 55GL

Version 2.2

Revision Date 02/09/2016

Print Date 04/19/2016

NOT REGULATED AS DANGEROUS GOODS OR HAZARDOUS MATERIAL

Transportation Regulation: IMDG (Vessel):
UN1993, FLAMMABLE LIQUID, N.O.S., (D-LIMONENE), 3, III

Transportation Regulation: IATA (Cargo Air):
UN1993, Flammable liquid, n.o.s., (D-LIMONENE), 3, III

Transportation Regulation: IATA (Passenger Air):
UN1993, Flammable liquid, n.o.s., (D-LIMONENE), 3, III

Transportation Regulation: TDG (Canada):
NOT REGULATED AS DANGEROUS GOODS OR HAZARDOUS MATERIAL

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.

SARA 311/312 Hazards : Fire 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 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
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)

SAFETY DATA SHEET

Zep Inc

ZEP BIG ORANGE 55GL

Version 2.2

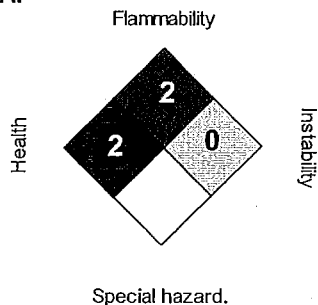
Revision Date 02/09/2016

Print Date 04/19/2016

SECTION 16. OTHER INFORMATION

Further information

NFPA:



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

: **Danger:**

Hazard statements

: Flammable liquid and vapour. May be fatal if swallowed and enters airways. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation.

Precautionary statements

: **Prevention:** Keep away 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 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 or rash occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash 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.

Version:	2.2
Revision Date:	02/09/2016
Print Date:	04/19/2016

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SAFETY DATA SHEET



ZEP BIG ORANGE 55GL

Version 2.2

Revision Date 02/09/2016

Print Date 04/19/2016

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.