# Q U E S

Environmental & Safety Products, Inc.

# STEE SAFETY DATA SHEET

# ATTACK! SUPER-OFF

#### 1. Identification

Product identifier

S-3451 SOLVENT BLEND

Other means of identification

Product code

0301053

Recommended use

Solvent

Recommended restrictions

None known.

Manufacturer

Quest Environmental & Safety Products, Inc.

9892 East 121st Street

Fishers, IN 46037

Information 1-800-878-4872

# 2. Hazard(s) identification

Physical hazards

Flammable liquids

Category 4

Health hazards

Acute toxicity, oral

Category 4

Acute toxicity, dermal

Category 3

Carcinogenicity

Category 1B

carcinog

Hazardous to the aquatic environment, acute Category 2

haza

hazard

Hazardous to the aquatic environment,

Category 2

long-term hazard

**OSHA** defined hazards

**Environmental hazards** 

Not classified.

Label elements



#### Signal word

## Hazard statement

H227 Combustible liquid.
H302 Harmful if swallowed.
H311 Toxic in contact with skin.
H350 May cause cancer.

H401 Toxic to aquatic life.

H411 Toxic to aquatic life with long lasting effects.

**Prevention** P202 - Do not handle until all safety precautions have been read and understood.

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

P264 - Wash hands thoroughly after handling.

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

P273 - Avoid release to the environment.

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

Response P301 + P312 - If swallowed: Call a poison center/doctor if you feel unwell.
P302 + P350 - If on skin: Wash with plenty of water.

P308 + P313 - If exposed or concerned: Get medical advice/attention.

P330 - Rinse mouth.

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

P370 + P378 - In case of fire: Use appropriate media to extinguish.

P391 - Collect spillage.

Storage

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

Disposal

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

regulations.

# 3. Composition/information on ingredients

#### **Mixtures**

Chemical name C	ommon name and synonyms	CAS number	%
Heavy Aromatic Naphtha		64742-94-5	70-90
1,2,4-Trimethylbenzene		95-63-6	0.1-10
2-Butoxyethanol		111-76-2	0.1-10
Naphthalene		91-20-3	0.1-10
Nonylphenol Ethoxylate		9016-45-9	0.1-10
Non-hazardous and other components below	reportable levels		0.1-10

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

#### 4. First-aid measures

Inhalation Skin contact If overexposure to vapors or mist, move to fresh air. Call a physician if breathing becomes difficult. Take off immediately all contaminated clothing. Wash off with soap and plenty of water. Call a POISON CENTER or doctor/physician if you feel unwell. Get medical attention if irritation develops and persists.

Eye contact

Ingestion

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists. Rinse mouth. IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

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

treatment needed **General information** 

Take off immediately all contaminated clothing. IF exposed or concerned: Get medical advice/attention. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before reuse.

## 5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing media

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2). Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical

The product is combustible, and heating may generate vapors which may form explosive vapor/aii mixtures. During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters

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

Fire-fighting equipment/instructions

In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk.

Specific methods

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

General fire hazards

Combustible liquid.

## 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

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

Methods and materials for containment and cleaning up

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

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

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

# **Environmental precautions**

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. Avoid release to the environment. Contact local authorities in case of spillage to drain/aquatic environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid discharge into drains, water courses or onto the ground.

## 7. Handling and storage

#### Precautions for safe handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from open flames, hot surfaces and sources of ignition. Do not get this material in contact with skin. Do not taste or swallow. Avoid contact with eyes. Avoid prolonged exposure. Avoid contact with clothing. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. When using, do not eat, drink or smoke. Wash hands thoroughly after handling. Wash contaminated clothing before reuse. Avoid release to the environment. Do not empty into drains.

Conditions for safe storage, including any incompatibilities

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

## 8. Exposure controls/personal protection

#### Occupational exposure limits

Components	Туре	Value	
2-Butoxyethanol (CAS 111-76-2)	PEL	240 mg/m3	
		50 ppm	
Naphthalene (CAS 91-20-3)	PEL	50 mg/m3	
		10 ppm	
US. ACGIH Threshold Limit Value	ë <b>s</b>		
Components	Туре	Value	
1,2,4-Trimethylbenzene (CAS 95-63-6)	TWA .	25 ppm	
2-Butoxyethanol (CAS 111-76-2)	TWA	20 ppm	
Naphthalene (CAS 91-20-3)	STEL	15 ppm	
	TWA	10 ppm	
US. NIOSH: Pocket Guide to Che	mical Hazards		
Components	Туре	Value	
1,2,4-Trimethylbenzene (CAS 95-63-6)	TWA	125 mg/m3	
		25 ppm	
2-Butoxyethanol (CAS 111-76-2)	TWA	24 mg/m3	
•		5 ppm	
Naphthalene (CAS 91-20-3)	STEL	75 mg/m3	
		15 ppm	
	TWA	50 mg/m3	
		10 ppm	

#### **Biological limit values**

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

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

# Exposure guidelines

US - Ca	alifornia	<b>OELs:</b>	Skin	design	nation
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2-Butoxyethanol (CAS 111-76-2) Can be absorbed through the skin.

US - Minnesota Haz Subs: Skin designation applies

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

US - Tennesse OELs: Skin designation

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

US ACGIH Threshold Limit Values: Skin designation

Naphthalene (CAS 91-20-3) Can be absorbed through the skin.

US NIOSH Pocket Guide to Chemical Hazards: Skin designation

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

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

2-Butoxyethanol (CAS 111-76-2)

Can be absorbed through the skin.

Appropriate engineering

controls

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

# Individual protection measures, such as personal protective equipment

Eye/face protection

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

Hand protection

Wear protective gloves.

Skin protection

Other

Wear appropriate chemical resistant clothing.

Respiratory protection

If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.

General hygiene considerations

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

# 9. Physical and chemical properties

**Appearance** 

Clear.

Physical state

Liquid.

Form Color Liquid. Colorless.

Odor

Typical Solvent.

**Odor threshold** 

Not available.

pН

Not available.

Melting point/freezing point

-94 °F (-70 °C) estimated

Initial boiling point and

336.2 °F (169 °C) estimated

boiling range

Flash point

150.8 °F (66.0 °C) Lowest Flashing component

Evaporation rate

Not available.

Flammability (solid, gas)

Not available.

## Upper/lower flammability or explosive limits

Flammability limit - lower

0.8 % estimated

(%)

Flammability limit -

10.6 % estimated

upper (%)

Explosive limit - lower

Not available.

(%)

(70)

Not available.

Explosive limit - upper (%)

NOL available.

Vapor pressure

0.77 hPa 1 hPa = 0.75006 mmHg estimated

Vapor density Relative density Not available.

Solubility(ies)

Solubility (water)

Partition coefficient (n-octanol/water)

Not available. Not available.

**Auto-ignition temperature** 

471.2 °F (244 °C) estimated

**Decomposition temperature** 

Not available.

Viscosity

Not available.

Other information

Density

0.91 g/cm3 estimated

Flash point class

Combustible IIIA

Percent volatile

96.56 % estimated

Pounds per gallon Specific gravity 7.5 lb/gal 0.9

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## 10. Stability and reactivity

Reactivity

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

Chemical stability

Possibility of hazardous reactions

Hazardous polymerization does not occur.

Conditions to avoid

Avoid heat, sparks, open flames and other ignition sources. Suitable precautions should be utilized if using this product at temperatures above the flash point. Contact with incompatible materials.

Strong oxidizers and strong acids.

Stable under normal conditions.

Incompatible materials

Hazardous decomposition products

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

## 11. Toxicological information

## Information on likely routes of exposure

Ingestion

Harmful if swallowed.

Inhalation

Prolonged inhalation may be harmful.

Skin contact

Toxic in contact with skin.

2-Butoxy ethanol may be absorbed through the skin in toxic amounts if contact is repeated and prolonged. These effects have not been observed in humans.

Eye contact

Direct contact with eyes may cause temporary irritation.

Symptoms related to the physical, chemical and toxicological characteristics Direct contact with eyes may cause temporary irritation.

#### Information on toxicological effects

Acute toxicity

Toxic in contact with skin, Harmful if swallowed, Expected to be a low hazard for usual industrial

or commercial handling by trained personnel

	or commercial nandling by trained personnel.	
Components	Species	Test Results
1,2,4-Trimethylbenzene (CA	AS 95-63-6)	
Acute		
Dermal		
LD50	Rabbit	> 3160 mg/kg
Inhalation		
LC50	Rat	> 2000 ppm, 48 Hours
Oral		
LD50	Rat	6 g/kg
2-Butoxyethanol (CAS 111-7	76-2)	
Acute		
Dermal		
LD50	Rabbit	400 mg/kg
Inhalation		
LC50	Mouse	700 ppm, 7 Hours
	Rat	450 ppm, 4 Hours
Oral		
LD50	Guinea pig	1.2 g/kg
	Mouse	1.2 g/kg
	Rabbit	0.32 g/kg
	Rat	560 mg/kg
Other		
LD50	Mouse	1130 mg/kg
	Rabbit	280 mg/kg
	Rat	340 mg/kg
		**************************************

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Components	Species		Test Results
Naphthalene (CAS 91-20-3)			
Acute		•	
Dermal	- 14 <i>1</i> 1		
LD50	Rabbit		> 2 g/kg
	Rat		> 20 g/kg
Oral			
LD50	Guinea pig		1200 mg/kg
	Rat		490 mg/kg
Other			
LD50	Mouse		100 mg/kg
* Estimates for product may	be based on add	ditional component data not shown.	
Skin corrosion/irritation		n contact may cause temporary irritation.	
Serious eye damage/eye		t with eyes may cause temporary irritation	
irritation	•	· ,	
Respiratory or skin sensitizat		,	
Respiratory sensitization	Not available.		
Skin sensitization		s not expected to cause skin sensitization	
Germ cell mutagenicity	No data availa mutagenic or	able to indicate product or any componen genotoxic	ts present at greater than 0.1% are
Carcinogenicity	May cause car		
IARC Monographs, Overal			
2-Butoxyethanol (CAS 11		- ·	carcinogenicity to humans.
Naphthalene (CAS 91-20	-3) <sup>′</sup>	2B Possibly carcinogeni	= *
US. National Toxicology P			
Naphthalene (CAS 91-20		Reasonably Anticipated	to be a Human Carcinogen.
Not listed.	julateu Substai	nces (29 CFR 1910.1001-1050)	·
Reproductive toxicity	This product is	s not expected to cause reproductive or d	evelopmental effects
Specific target organ toxicity	Not classified.	The expected to cause reproductive of a	evelopmental effects.
· single exposure	Noc classifica:		
Specific target organ toxicity - repeated exposure	Not classified.		
Aspiration hazard	Not available.		
Chronic effects		plation may be barmful. May be barmful it	Sabaaubad thurush akia
Sill othic effects	Prolonged IIIIa	alation may be harmful. May be harmful i	absorbed through skin.
	2-Butoxy ethat prolonged. The	nol may be absorbed through the skin in nese effects have not been observed in hu	toxic amounts if contact is repeated and imans.
	Prolonged exp	osure may cause chronic effects.	
	m		
L2. Ecological informatio	711		
<del>-</del>		ic life with long lasting effects. Accumulat	ion in aquatic organisms is expected.
<del>-</del>		ic life with long lasting effects. Accumulat Species	ion in aquatic organisms is expected.  Test Results
cotoxicity	Toxic to aquat		
cotoxicity Components	Toxic to aquat		
Components  1,2,4-Trimethylbenzene (CAS Aquatic	Toxic to aquat		Test Results
Components  1,2,4-Trimethylbenzene (CAS Aquatic	Toxic to aquat 95-63-6) LC50	Species	Test Results
Components  1,2,4-Trimethylbenzene (CAS  Aquatic  Fish	Toxic to aquat 95-63-6) LC50	Species	Test Results
1,2,4-Trimethylbenzene (CAS Aquatic Fish 2-Butoxyethanol (CAS 111-76- Aquatic	Toxic to aquat 95-63-6) LC50	Species	Test Results

Water flea (Daphnia magna)

Pink salmon (Oncorhynchus gorbuscha) 1.11 - 1.68 mg/l, 96 hours

EC50

LC50

**Aquatic** Crustacea

Fish

1.09 - 3.4 mg/l, 48 hours

Components Species Test Results

Nonylphenol Ethoxylate (CAS 9016-45-9)

Aquatic

Crustacea

EC50

Water flea (Daphnia magna)

12.2 mg/l. 48 hours

Fish

LC50

Bluegill (Lepomis macrochirus)

1 - 1.8 mg/l, 96 hours

\* Estimates for product may be based on additional component data not shown.

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

Bioaccumulative potential

No data available.

Partition coefficient n-octanol / water (log Kow) 2-Butoxyethanol

0.83

Naphthalene

3.3

Mobility in soil

No data available.

Other adverse effects

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

#### 13. Disposal considerations

Disposal instructions

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. This material and its container must be disposed of as hazardous waste. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.

Local disposal regulations

Waste from residues / unused products

Dispose in accordance with all applicable regulations.

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

Contaminated packaging

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

emptied.

# 14. Transport information

#### **DOT BULK**

**UN number** 

NA1993

Proper shipping name

Packing group

Combustible Liquid, N.O.S. (Petroleum Distillates, Ethylene Glycol Monobutyl Ether) TIT

ERG code

128

#### **DOT NON-BULK**

Not regulated as dangerous goods.

# 15. Regulatory information

US federal regulations

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

29 CFR 1910.1200.

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

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

2-Butoxyethanol (CAS 111-76-2)

Listed.

Naphthalene (CAS 91-20-3)

Listed.

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

Not listed.

# Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

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

#### SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312

Yes

Hazardous chemical

#### SARA 313 (TRI reporting)

Chemical name	CAS number	% by wt.
1,2,4-Trimethylbenzene	95-63-6	0.1-10

#### SARA 313 (TRI reporting)

Chemical name	CAS number	% by wt.	
2-Butoxyethanol	111-76-2	0.1-10	
Ethylene Glycol	107-21-1	0.1-10	
Naphthalene	91-20-3	0.1-10	

#### Other federal regulations

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

Naphthalene (CAS 91-20-3)

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

Not regulated.

Safe Drinking Water Act

Not regulated.

(SDWA)

#### **US state regulations**

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

1,2,4-Trimethylbenzene (CAS 95-63-6)

2-Butoxyethanol (CAS 111-76-2)

Naphthalene (CAS 91-20-3)

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

1,2,4-Trimethylbenzene (CAS 95-63-6)	500 LBS
2-Butoxyethanol (CAS 111-76-2)	500 LBS
Naphthalene (CAS 91-20-3)	500 LBS

#### US. Pennsylvania RTK - Hazardous Substances

1,2,4-Trimethylbenzene (CAS 95-63-6)

2-Butoxyethanol (CAS 111-76-2)

Heavy Aromatic Naphtha (CAS 64742-94-5)

Naphthalene (CAS 91-20-3)

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

1,2,4-Trimethylbenzene (CAS 95-63-6)

2-Butoxyethanol (CAS 111-76-2)

Naphthalene (CAS 91-20-3)

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

WARNING: This product contains a chemical known to the State of California to cause cancer.

# US - California Proposition 65 - CRT: Listed date/Carcinogenic substance

Naphthalene (CAS 91-20-3)

Listed: April 19, 2002

## **International Inventories**

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes
•	nents of this product comply with the inventory requirements administered by the	2 2 10 10 10 10 10 10 10 10 10 10 10 10 10

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

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

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

Issue date

06-03-2014

Version #

01

Material name: S-3451 SOLVENT BLEND 981 Version #: 01 Issue date: 06-03-2014 Disclainter

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