# SAFETY DATA SHEET



### Graffiti Remover

# Section 1. Identification

**GHS** product identifier

: Graffiti Remover

Other means of identification

: Not available.

**Product type** 

: Gas.

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

Not applicable.

Supplier's details

: Betco Corporation 1001 Brown Avenue Toledo, OH 43607 www.betco.com 888-462-3826

**Emergency telephone** number (with hours of operation)

: Chemtrec 800-424-9300 (24 Hour)

# Section 2. Hazards identification

**OSHA/HCS** status

: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Gassification of the substance or mixture : FLAMMABLE AEROSOLS - Category 1 SKIN CORROSION/IRRITATION - Category 1

SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1 TOXIC TO REPRODUCTION (Unborn child) - Category 2

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (central nervous

system (CNS)) - Category 2

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) -

Category 3

SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2

ASPIRATION HAZARD - Category 1

GHS label elements Hazard pictograms



Signal word

: Danger

**Hazard statements** 

: Extremely flammable aerosol.

Causes severe skin burns and eye damage. Suspected of damaging the unborn child. May be fatal if swallowed and enters airways.

May cause damage to organs. (central nervous system (CNS))

May cause drowsiness and dizziness.

May cause damage to organs through prolonged or repeated exposure.

recautionary statements

# Section 2. Hazards identification

#### Prevention

: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Wear protective gloves: 1 - 4 hours (breakthrough time): butyl rubber. Wear eye or face protection: Recommended: safety glasses. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Pressurized container: Do not pierce or burn, even after use. Do not spray on an open flame or other ignition source. Use only outdoors or in a well-ventilated area. Do not breathe gas. Wash hands thoroughly after handling.

### Response

: Get medical attention if you feel unwell. IF exposed or concerned: Get medical attention. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or physician if you feel unwell. IF SWALLOWED: Immediately call a POISON CENTER or physician. Do NOT induce vomiting. IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.

#### Storage

: Store locked up. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

### Disposal

: Dispose of contents and container in accordance with all local, regional, national and international regulations.

# Hazards not otherwise

: None known.

# classified

# Section 3. Composition/information on ingredients

Substance/mixture

: Mixture

Other means of identification

: Not available.

#### CAS number/other identifiers

CAS number

: Not applicable.

**Product code** 

: 015

Ingredient name	%	CAS number
toluene	≥25 - <50	108-88-3
propane	≥10 - <25	74-98-6
2-(2-butoxyethoxy)ethanol	≥5 - <10	112-34-5
2-Butoxyethanol; Ethylene glycol monobutyl ether	≥5 - <10	111-76-2
Acetone	≥5 - <10	67-64-1
oleic acid	≥1 - <3	112-80-1

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

# Section 4. First aid measures

# Description of necessary first aid measures

Eye contact

: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.

# Section 4. First aid measures

### halation

Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

#### Skin contact

: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. To avoid the risk of static discharges and gas ignition, soak contaminated clothing thoroughly with water before removing it. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.

#### Ingestion

: As this product is a gas, refer to the inhalation section. Aspiration hazard if swallowed. Can enter lungs and cause damage. Do not induce vomiting.

# Most important symptoms/effects, acute and delayed

### Potential acute health effects

Eye contact

Causes serious eye irritation.

Inhalation

: Can cause central nervous system (CNS) depression. May cause drowsiness and dizziness.

Skin contact

: Causes skin irritation.

Ingestion

: Can cause central nervous system (CNS) depression. May be fatal if swallowed and enters airways. As this product is a gas, refer to the inhalation section.

### ver-exposure signs/symptoms

≟ye contact

: Adverse symptoms may include the following:

pain or irritation watering redness

Inhalation

: Adverse symptoms may include the following:

nausea or vomiting

headache

drowsiness/fatigue dizziness/vertigo unconsciousness reduced fetal weight increase in fetal deaths skeletal malformations

Skin contact

: Adverse symptoms may include the following:

irritation redness

reduced fetal weight increase in fetal deaths skeletal malformations

Ingestion

: Adverse symptoms may include the following:

nausea or vomiting reduced fetal weight increase in fetal deaths skeletal malformations

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

Notes to physician

: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Specific treatments

: No specific treatment.

# Section 4. First aid measures

### **Protection of first-aiders**

: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

# See toxicological information (Section 11)

# Section 5. Fire-fighting measures

### Extinguishing media

Suitable extinguishing media

Unsuitable extinguishing media

: Use an extinguishing agent suitable for the surrounding fire.

: None known.

### Specific hazards arising from the chemical

: Contains gas under pressure. Extremely flammable aerosol. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Gas may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back, causing fire or explosion. Bursting aerosol containers may be propelled from a fire at high speed. Runoff to sewer may create fire or explosion hazard.

### Hazardous thermal decomposition products

: Decomposition products may include the following materials: carbon dioxide carbon monoxide

# Special protective actions for fire-fighters

: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Contact supplier immediately for specialist advice. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers

# Special protective equipment for fire-fighters

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

# Section 6. Accidental release measures

# Personal precautions, protective equipment and emergency procedures

# For non-emergency personnel

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. In the case of aerosols being ruptured, care should be taken due to the rapid escape of the pressurized contents and propellant. If a large number of containers are ruptured, treat as a bulk material spillage according to the instructions in the clean-up section. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing gas. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders: If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For nonemergency personnel".

#### **Environmental precautions**

: Ensure emergency procedures to deal with accidental gas releases are in place to avoid contamination of the environment. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

### Methods and materials for containment and cleaning up

Small spill

: Immediately contact emergency personnel. Stop leak if without risk. Use spark-proof tools and explosion-proof equipment.

Large spill

: Immediately contact emergency personnel. Stop leak if without risk. Use spark-proof

# Section 7. Handling and storage

# cautions for safe handling

#### rotective measures

: Put on appropriate personal protective equipment (see Section 8). Contains gas under pressure. Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Avoid exposure obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe gas. Do not swallow. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Empty containers retain product residue and can be hazardous. Do not puncture or incinerate container.

### Advice on general occupational hygiene

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

# including any incompatibilities

Conditions for safe storage, : Do not store above the following temperature: 49°C (120.2°F). Store in accordance with local regulations. Store in a segregated and approved area. Store in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10). Store locked up. Eliminate all ignition sources. Keep container tightly closed and sealed until ready for use.

# Section 8. Exposure controls/personal protection

#### ntrol parameters

#### occupational exposure limits

Ingredient name	Exposure limits
toluene	OSHA PEL 1989 (United States, 3/1989).
	TWA: 100 ppm 8 hours.
	TWA: 375 mg/m³ 8 hours.
	STEL: 150 ppm 15 minutes.
	STEL: 560 mg/m³ 15 minutes.
	OSHA PEL Z2 (United States, 2/2013).
	TWA: 200 ppm 8 hours.
	CEIL: 300 ppm
	AMP: 500 ppm 10 minutes.
	NIOSH REL (United States, 10/2013).
	TWA: 100 ppm 10 hours.
	TWA: 375 mg/m³ 10 hours.
	STEL: 150 ppm 15 minutes.
	STEL: 560 mg/m³ 15 minutes.
	ACGIH TLV (United States, 4/2014).
	TWA: 20 ppm 8 hours.
oropane	OSHA PEL 1989 (United States, 3/1989).
	TWA: 1000 ppm 8 hours.
	TWA: 1800 mg/m³ 8 hours.
	NIOSH REL (United States, 10/2013).
	TWA: 1000 ppm 10 hours.
	TWA: 1800 mg/m³ 10 hours.
	OSHA PEL (United States, 2/2013).
	TWA: 1000 ppm 8 hours.
	TWA: 1800 mg/m³ 8 hours.
2-(2-butoxyethoxy)ethanol	ACGIH TLV (United States, 4/2014).
	TWA: 10 ppm 8 hours. Form: Inhalable
	fraction and vapor
2-Butoxyethanol; Ethylene glycol monobutyl ether	OSHA PEL 1989 (United States, 3/1989).
5 E	Absorbed through skin.

Acetone

# Section 8. Exposure controls/personal protection

time): butyl rubber

TWA: 120 mg/m<sup>3</sup> 8 hours.

NIOSH REL (United States, 10/2013).

Absorbed through skin. TWA: 5 ppm 10 hours.

TWA: 24 mg/m³ 10 hours.

ACGIH TLV (United States, 4/2014).

TWA: 20 ppm 8 hours.

OSHA PEL (United States, 2/2013).

Absorbed through skin.
TWA: 50 ppm 8 hours.

TWA: 240 mg/m³ 8 hours.

ACGIH TLV (United States, 4/2014).

TWA: 500 ppm 8 hours. TWA: 1188 mg/m³ 8 hours. STEL: 750 ppm 15 minutes. STEL: 1782 mg/m³ 15 minutes.

OSHA PEL 1989 (United States, 3/1989).

TWA: 750 ppm 8 hours.
TWA: 1800 mg/m³ 8 hours.
STEL: 1000 ppm 15 minutes.
STEL: 2400 mg/m³ 15 minutes.

NIOSH REL (United States, 10/2013).

TWA: 250 ppm 10 hours. TWA: 590 mg/m³ 10 hours.

OSHA PEL (United States, 2/2013).

TWA: 1000 ppm 8 hours. TWA: 2400 mg/m³ 8 hours.

# Appropriate engineering controls

: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

# Environmental exposure controls

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

#### Individual protection measures

#### Hygiene measures

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

#### Eye/face protection

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles. Recommended: safety glasses

# Skin protection Hand protection

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. 1 - 4 hours (breakthrough

# Section 8. Exposure controls/personal protection

**3**ody protection

Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear antistatic protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.

Other skin protection

Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection

Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Personal protective equipment (Pictograms)



# Section 9. Physical and chemical properties

**Appearance** 

Physical state : Gas. [Compressed gas.]

Color : Tan.

Odor : Aromatic.

Odor threshold : Not available.
: Not available.

Boiling point : Not available.

Not available.

Not available.

Flash point : Closed cup: <-18°C (<-0.4°F)

**Evaporation rate**: Not available.

Flammability (solid, gas) : Extremely flammable in the presence of the following materials or conditions: open

flames, sparks and static discharge.

Lower and upper explosive

(flammable) limits

: Not available.

Vapor pressure : Not available.
Vapor density : Not available.

Relative density : 0.827

**Solubility** : Partially soluble in the following materials: cold water and hot water.

Partition coefficient: n-

octanol/water

: Not available.

Auto-ignition temperature : Not available.

Decomposition temperature : Not available.

Viscosity : Not available.

Aerosol product

Type of aerosol : Spray
Heat of combustion : 27.74 kJ/g

# ection 10. Stability and reactivity

Reactivity : No specific test data related to reactivity available for this product or its ingredients.

Chemical stability : The product is stable.

# Section 10. Stability and reactivity

Conditions to avoid

: Avoid all possible sources of ignition (spark or flame).

Incompatible materials

: No specific data.

Hazardous decomposition products

: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

# Section 11. Toxicological information

# Information on toxicological effects

# **Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
toluene	LC50 Inhalation Vapor	Rat	49 g/m³	4 hours
0.00	LD50 Oral	Rat	636 mg/kg	- Hours
2-(2-butoxyethoxy)ethanol	LD50 Dermal	Rabbit	2700 mg/kg	-
0.0.4	LD50 Oral	Rat	4500 mg/kg	-
2-Butoxyethanol; Ethylene glycol monobutyl ether	LC50 Inhalation Gas.	Rat	450 ppm	4 hours
	LD50 Dermal	Rabbit	220 mg/kg	_
	LD50 Oral	Rat	250 mg/kg	_
Acetone	LD50 Oral	Rat	5800 mg/kg	_
oleic acid	LD50 Oral	Rat	25000 mg/kg	_

### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
toluene	Eyes - Mild irritant	Rabbit	-	0.5 minutes	
	**			100	
	20 20 20 20 20 20 20 20 20 20 20 20 20 2			milligrams	
	Eyes - Mild irritant	Rabbit		870	_
	I			Micrograms	
	Eyes - Severe irritant	Rabbit	-	24 hours 2	-
	Older Milding	1		milligrams	
	Skin - Mild irritant	Pig	-	24 hours 250	-
	Claim Milel impitement	B 11.7		microliters	
	Skin - Mild irritant	Rabbit	-	435	-
	Skin - Moderate irritant	Dabbit		milligrams	
	Skiii - Moderate iintant	Rabbit	-	24 hours 20	
	Skin - Moderate irritant	Rabbit		milligrams	
	Okiii - Moderate iiiitaiit	Kabbit	-	500	-
2-(2-butoxyethoxy)ethanol	Eyes - Moderate irritant	Rabbit		milligrams 24 hours 20	
, , , , , , , , , , , , , , , , , , , ,	Lyes Mederate initiant	TRADDIC	-	milligrams	-
	Eyes - Severe irritant	Rabbit	_	20 milligrams	
2-Butoxyethanol; Ethylene	Eyes - Moderate irritant	Rabbit	-	24 hours 100	_
glycol monobutyl ether				milligrams	
	Eyes - Severe irritant	Rabbit		100	
				milligrams	
	Skin - Mild irritant	Rabbit	-	500	- 7
				milligrams	
Acetone	Eyes - Mild irritant	Human	-	186300 parts	-
				per million	
	Eyes - Mild irritant	Rabbit	-	10 microliters	-
	Eyes - Moderate irritant	Rabbit	-	24 hours 20	
		MACO AS NAS		milligrams	
	Eyes - Severe irritant	Rabbit	-	20 milligrams	-
	Skin - Mild irritant	Rabbit	-	24 hours 500	
	Claim Milel in the stand	5.44		milligrams	
	Skin - Mild irritant	Rabbit	-	395	-

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l aleic acid	Eyes - Mild irritant	Rabbit	-	100 milligrams	-
Ì	Skin - Moderate irritant	Human	-	72 hours 15 milligrams	-
				Intermittent	

Skin - Mild irritant

Rabbit

500

milligrams

### Sensitization

Not available.

### Mutagenicity

Not available.

### Carcinogenicity

Not available.

### Classification

Oldoomodich			
Product/ingredient name	OSHA	IARC	NTP
toluene 2-Butoxyethanol; Ethylene glycol monobutyl ether	-	3	-

#### Reproductive toxicity

Not available.

### **Teratogenicity**

'ot available.

# Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
propane	Category 3	Not applicable.	Respiratory tract
Acetone	Category 3	Not applicable.	Narcotic effects

# Specific target organ toxicity (repeated exposure)

Not available.

### **Aspiration hazard**

Not available.

# Information on the likely routes of exposure

: Routes of entry anticipated: Dermal, Inhalation.

### Potential acute health effects

Eye contact

: Causes serious eye irritation.

Inhalation

: Can cause central nervous system (CNS) depression. May cause drowsiness and dizziness.

Skin contact

: Causes skin irritation.

Ingestion

: Can cause central nervous system (CNS) depression. May be fatal if swallowed and enters airways. As this product is a gas, refer to the inhalation section.

# Symptoms related to the physical, chemical and toxicological characteristics

**Eye contact** 

: Adverse symptoms may include the following: pain or irritation

watering redness

# Section 11. Toxicological information

nhalation : Adverse symptoms may include the following:

nausea or vomiting

headache

drowsiness/fatigue dizziness/vertigo unconsciousness reduced fetal weight increase in fetal deaths skeletal malformations

**Skin contact** : Adverse symptoms may include the following:

irritation redness

reduced fetal weight increase in fetal deaths skeletal malformations

**Ingestion** : Adverse symptoms may include the following:

nausea or vomiting reduced fetal weight increase in fetal deaths skeletal malformations

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

Short term exposure

Potential immediate

: Not available.

effects

Potential delayed effects

: Not available.

Long term exposure

Potential immediate

effects

: Not available.

Potential delayed effects : Not available.

Potential chronic health effects

Not available.

General

: May cause damage to organs through prolonged or repeated exposure.

Carcinogenicity

Mutagenicity

No known significant effects or critical hazards.No known significant effects or critical hazards.

**Teratogenicity** 

: May damage the unborn child.

**Developmental effects** 

: No known significant effects or critical hazards.

Fertility effects

: May damage fertility.

# Numerical measures of toxicity

**Acute toxicity estimates** 

Not available.

# Section 12. Ecological information

**Toxicity** 

# Section 12. Ecological information

oduct/ingredient name	Result	Species	Exposure
wuluene	Acute EC50 12500 μg/l Fresh water	Algae - Pseudokirchneriella subcapitata	72 hours
	Acute EC50 11600 μg/l Fresh water	Crustaceans - Gammarus pseudolimnaeus - Adult	48 hours
	Acute EC50 6000 μg/l Fresh water	Daphnia - Daphnia magna - Juvenile (Fledgling, Hatchling,	48 hours
	A suite I OFO FFOO wall Freeh weter	Weanling) Fish - Oncorhynchus kisutch - Fry	96 hours
	Acute LC50 5500 μg/l Fresh water Chronic NOEC 1000 μg/l Fresh water	Daphnia - Daphnia magna	21 days
2-(2-butoxyethoxy)ethanol	Acute LC50 1300000 µg/l Fresh water	Fish - Lepomis macrochirus	96 hours
2-Butoxyethanol; Ethylene	Acute EC50 >1000 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
glycol monobutyl ether	Acute LC50 800000 µg/l Marine water	Crustaceans - Crangon crangon	48 hours
	Acute LC50 1250000 µg/l Marine water	Fish - Menidia beryllina	96 hours
Acetone	Acute EC50 20.565 mg/l Marine water	Algae - Ulva pertusa	96 hours
, 100.1011	Acute LC50 6000000 µg/l Fresh water	Crustaceans - Gammarus pulex	48 hours
	Acute LC50 10000 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 5600 ppm Fresh water	Fish - Poecilia reticulata	96 hours
	Chronic NOEC 4.95 mg/l Marine water	Algae - Ulva pertusa	96 hours
	Chronic NOEC 0.016 ml/L Fresh water	Crustaceans - Daphniidae	21 days
	Chronic NOEC 0.1 ml/L Fresh water	Daphnia - Daphnia magna - Neonate	21 days
	Chronic NOEC 5 µg/l Marine water	Fish - Gasterosteus aculeatus -	42 days
oleic acid	Acute LC50 205000 μg/l Fresh water	Larvae Fish - Pimephales promelas - Juvenile (Fledgling, Hatchling,	96 hours
		Weanling)	

# Persistence and degradability

Not available.

### Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
toluene propane	2.73 1.09	90	low low
2-(2-butoxyethoxy)ethanol 2-Butoxyethanol; Ethylene	1 0.81	-	low low
glycol monobutyl ether Acetone oleic acid	-0.23 7.73	-	low high

#### **Mobility in soil**

Soil/water partition coefficient (Koc)

: Not available.

Other adverse effects

: No known significant effects or critical hazards.

# Section 13. Disposal considerations

### posal methods

: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Empty pressure vessels should be returned to the supplier. Waste packaging should be

# Section 13. Disposal considerations

containers or liners may retain some product residues. Do not puncture or incinerate container.

# United States - RCRA Toxic hazardous waste "U" List

Ingredient	CAS#	Status	Reference number
Toluene; Benzene, methyl-	108-88-3	Listed	U220
Acetone (I); 2-Propanone (I)	67-64-1	Listed	U002

# Section 14. Transport information

	DOT Classification	TDG Classification	Mexico Classification	ADR/RID	IMDG	IATA
UN number	1950	1950	1950	1950	1950	
UN proper shipping name	Aerosols	Aerosols	Aerosols	Aerosols	Aerosols	Not available.
Transport hazard class(es)	2.1	2.1	2.1	2	2.1	2.1
Packing group		•		-	-	-
Environmental hazards	No.	No.	No.	Yes.	Yes.	No.
	Reportable quantity 3333.3 lbs / 1513.3 kg Package sizes shipped in quantities less than the product reportable quantity are not subject to the RQ (reportable quantity) transportation requirements.  Limited quantity Yes.	Explosive Limit and Limited Quantity Index 1	-	Tunnel code D	The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg.	The environmentally hazardous substance mark may appear if required by other transportation regulations.

Special precautions for user : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according : Not available. to Annex II of MARPOL 73/78 and the IBC Code

# Section 15. Regulatory information

3. Federal regulations

: TSCA 8(a) CDR Exempt/Partial exemption: Not determined

Not determined.

Clean Water Act (CWA) 307: toluene

Clean Water Act (CWA) 311: toluene; sodium hydroxide

Clean Air Act (CAA) 112 regulated flammable substances: propane; butane

Clean Air Act Section 112

(b) Hazardous Air Pollutants (HAPs) : Listed

Clean Air Act Section 602

: Not listed

Class | Substances

Clean Air Act Section 602

: Not listed

Class II Substances

**DEA List I Chemicals** 

: Not listed

(Precursor Chemicals)

**DEA List II Chemicals** 

: Listed

(Essential Chemicals)

SARA 302/304

# Composition/information on ingredients

No products were found.

SARA 304 RQ

: Not applicable.

SARA 311/312

Classification

: Fire hazard

Immediate (acute) health hazard Delayed (chronic) health hazard

### Composition/information on ingredients

Name	%	Fire hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard
toluene propane 2-(2-butoxyethoxy)ethanol 2-Butoxyethanol; Ethylene glycol	≥25 - <50 ≥10 - <25 ≥5 - <10 ≥5 - <10	Yes. Yes. Yes. No.	No. Yes. No. No.	No. No. No. No.	Yes. Yes. Yes. Yes.	No. No. No. No.
monobutyl ether Acetone oleic acid	≥5 - <10 ≥1 - <3	Yes. No.	No. No.	No. No.	Yes. Yes.	No. No.

#### **SARA 313**

	Product name	CAS number	%
Form R - Reporting requirements	toluene 2-butoxyethanol 2-(2-butoxyethoxy)ethanol	108-88-3 111-76-2 112-34-5	≥25 - <50 ≥5 - <10 ≥5 - <10
Supplier notification	toluene 2-butoxyethanol 2-(2-butoxyethoxy)ethanol	108-88-3 111-76-2 112-34-5	≥25 - <50 ≥5 - <10 ≥5 - <10

3ARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

#### State regulations

Massachusetts

: The following components are listed: PROPANE; TOLUENE; ACETONE;

2-BUTOXYETHANOL; BUTANE

: The following components are listed: Toluene; Acetone; 2-Propanone **New York** 

# Section 15. Regulatory information

**New Jersey** 

: The following components are listed: PROPANE; TOLUENE; BENZENE, METHYL-; ACETONE; 2-PROPANONE; 2-BUTOXY ETHANOL; BUTYL CELLOSOLVE; BUTANE;

**GLYCOL ETHERS** 

Pennsylvania

: The following components are listed: PROPANE; BENZENE, METHYL-; 2-PROPANONE; ETHANOL, 2-BUTOXY-; BUTANE; GLYCOL ETHERS;

9-OCTADECENOIC ACID (Z)-

# California Prop. 65

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

Ingredient name	Cancer	Reproductive	No significant risk level	Maximum acceptable dosage level
toluene	No.	Yes.	No.	7000 µg/day (ingestion)

### International regulations

# Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

# Montreal Protocol (Annexes A. B. C. E)

Not listed.

# Stockholm Convention on Persistent Organic Pollutants

# Rotterdam Convention on Prior Inform Consent (PIC)

Not listed.

# **UNECE Aarhus Protocol on POPs and Heavy Metals**

Not listed.

### **International lists**

#### National inventory

Australia : Not determined Canada : Not determined. China : Not determined. Europe : Not determined. Japan Not determined. Malaysia : Not determined. **New Zealand** : Not determined. **Philippines** : Not determined. Republic of Korea : Not determined. Taiwan : Not determined.

# Section 16. Other information

# Hazardous Material Information System (U.S.A.)



# Section 16. Other information

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks Although HMIS® ratings are not required on SDSs under 29 CFR 1910. 1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

### National Fire Protection Association (U.S.A.)



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Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

### Procedure used to derive the classification

Classification	Justification	
□lam. Aerosol 1, H222	Expert judgment	
kin Irrit. 2, H315	Expert judgment	
Eye Irrit. 2, H319	Expert judgment	
Repr. 1A, H360 (Fertility)	Expert judgment	
Repr. 1A, H360 (Unborn child)	Expert judgment	
STOT SE 3, H336	Expert judgment	
STOT RE 2, H373	Expert judgment	
Asp. Tox. 1, H304	Expert judgment	

#### **History**

Date of printing

: 4/24/2015.

Date of issue/Date of

: 4/24/2015.

revision

: 4/1/2015.

Date of previous issue Version

: 1.01

Key to abbreviations

: ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships,

1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

UN = United Nations

References

: Not available.

ndicates information that has changed from previously issued version.

### Notice to reader

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