

Date of Revision: 10/21/2016

Tripropylene Glycol Monomethyl Ether

## SECTION 1: Chemical Product and Company Identification

### THE CHEMICAL SUPPLY

**Product/Chemical Name:** Tripropylene Glycol Monomethyl Ether**Chemical Formula:** C<sub>10</sub>H<sub>22</sub>O<sub>4</sub>**CAS #:** 25498-49-1**Other Designations:** Tri(propylene glycol) methyl ether (mixture of isomers)**General Use:** XX**Emergency Telephone:** 1-800-255-3924 (Chem Tel domestic); 1-813-248-0585 (Chem Tel international)

## SECTION 2: Hazards Identification

### ☆☆☆☆☆ EMERGENCY OVERVIEW ☆☆☆☆☆

**Warning!** Causes eye, skin, and respiratory tract irritation. May cause allergic skin reaction.

| HMIS                    |   |
|-------------------------|---|
| <b>H</b>                | 1 |
| <b>F</b>                | 0 |
| <b>R</b>                | 0 |
| <b>PPE</b> <sup>†</sup> |   |
| <sup>†</sup> Sec. 8     |   |

### *Potential Health Effects*

**Target Organs:**

**Primary Entry Routes:** Routes of entry for solids and liquids are ingestion and inhalation, but may include eye or skin contact. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquefied gases.

**HAZARDS IDENTIFICATION****Classification of the substance or mixture**

Not a hazardous substance or mixture.

**GHS Label elements, including precautionary statements**

Not a hazardous substance or mixture.

**Signal word:** None**Hazard Statement(s):** None**Pictogram(s) or Symbol(s):** None**Precautionary Statement(s):** None**Hazards not otherwise classified (HNOC) or not covered by GHS - none****Acute Effects****Eye:** May cause eye irritation.**Skin:** May cause skin irritation. May be harmful if absorbed through the skin.**Ingestion:** May cause irritation of the digestive tract.**Inhalation:** May cause respiratory tract irritation. May be harmful if inhaled.**Chronic:** May cause xxxx.

**Carcinogenicity:** IARC, NTP, ACGIH, OSHA and CA Prop 65 do not list Tripropylene Glycol Monomethyl Ether as a carcinogen.

**Medical Conditions Aggravated by Long-Term Exposure:**

## SECTION 3: Composition / Information on Ingredients

| CAS#       | Chemical Name                        | Percent | EINECS/ELINCS |
|------------|--------------------------------------|---------|---------------|
| 25498-49-1 | Tripropylene Glycol Monomethyl Ether | 100     | 247-045-4     |

**Appearance/General Info:**

| Chemical Name                        | ACGIH       | NIOSH       | OSHA - Final PELs |
|--------------------------------------|-------------|-------------|-------------------|
| Tripropylene Glycol Monomethyl Ether | None listed | None listed | None listed       |

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### SECTION 4: First Aid Measures

**Eyes:** Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately.

**Skin:** Get medical aid immediately. Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.

**Ingestion:** If swallowed, get medical aid immediately. Only induce vomiting if directed to do so by medical personnel. Never give anything by mouth to an unconscious person.

**Inhalation:** Get medical aid immediately. Remove from exposure and move to fresh air immediately. If breathing is difficult, give oxygen. Do not use mouth-to-mouth resuscitation if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.

**Notes to Physician:** Treat symptomatically and supportively.

#### Antidote:

*After first aid, get appropriate in-plant, paramedic, or community medical support.*

### SECTION 5: Fire-Fighting Measures

**Flash Point:** °C ( °F)

**Autoignition Temperature:** °C ( °F)

**LEL:** vol%

**UEL:** vol %

**Flammability Classification:**

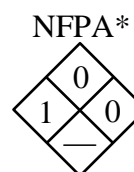
**Extinguishing Media:** In case of fire, use water, dry chemical, chemical foam, or alcohol-resistant foam.

**Unusual Fire or Explosion Hazards:** Vapors are heavier than air and may travel to a source of ignition and flash back. Vapors can spread along the ground and collect in low or confined areas.

**Hazardous Combustion Products:** Irritating and toxic fumes and gases.

**Fire-Fighting Instructions:** Do not release runoff from fire control methods to sewers or waterways.

**Fire-Fighting Equipment:** Because fire may produce toxic thermal decomposition products, wear a self-contained breathing apparatus (SCBA) with a full face-piece operated in pressure-demand or positive-pressure mode.



### SECTION 6: Accidental Release Measures

**Spill /Leak Procedures:** Eliminate all ignition sources. Ventilate area.

**Small Spills:** Absorb spill with inert material (e.g. vermiculite, sand or earth), or if solid, sweep up, then place in suitable container. Clean up spills immediately, observing precautions in the Protective Equipment section.

#### Large Spills

**Containment:** For large spills, dike far ahead of spill for later disposal. Do not release into sewers or waterways.

**Cleanup:** Avoid generating dusty conditions. Provide ventilation.

**Regulatory Requirements:** Follow applicable OSHA regulations (29 CFR 1910.120).

### SECTION 7: Handling and Storage

**Handling Precautions:** Wear overalls, safety glasses and impervious gloves. If dust exist, wear dust mask meeting the requirements of AS1715 and AS1716. Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Do not get in eyes, on skin, or on clothing. Empty containers retain product residue, (liquid and/or vapor), and can be dangerous. Do not ingest or inhale. Discard contaminated shoes. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose empty containers to heat, sparks or open flames. Use only with adequate ventilation.

**Storage Requirements:** Keep away from heat, sparks, and flame. Keep container closed when not in use.

### SECTION 8: Exposure Controls / Personal Protection

**Engineering Controls:** No data

**Ventilation:** Provide general or local exhaust ventilation systems to maintain airborne concentrations below OSHA PELs (Sec. 2). Local exhaust ventilation is preferred because it prevents contaminant dispersion into the work area by controlling it at its source.

**Administrative Controls:**

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**Respiratory Protection:** Seek professional advice prior to respirator selection and use. Follow OSHA respirator regulations (29 CFR 1910.134) and, if necessary, wear a MSHA/NIOSH-approved respirator. Select respirator based on its suitability to provide adequate worker protection for given working conditions, level of airborne contamination, and presence of sufficient oxygen. For emergency or non-routine operations (cleaning spills, reactor vessels, or storage tanks), wear an SCBA.

*Warning! Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.* If respirators are used, OSHA requires a written respiratory protection program that includes at least: medical certification, training, fit-testing, periodic environmental monitoring, maintenance, inspection, cleaning, and convenient, sanitary storage areas.

**Protective Clothing/Equipment:** Wear chemically protective gloves, boots, aprons, and gauntlets to prevent prolonged or repeated skin contact. Wear protective eyeglasses or chemical safety goggles, per OSHA eye- and face-protection regulations (29 CFR 1910.133). Contact lenses are not eye protective devices. Appropriate eye protection must be worn instead of, or in conjunction with contact lenses.

**Safety Stations:** Make emergency eyewash stations, safety/quick-drench showers, and washing facilities available in work area.

**Contaminated Equipment:** Separate contaminated work clothes from street clothes. Launder before reuse. Remove this material from your shoes and clean personal protective equipment.

**Comments:** Never eat, drink, or smoke in work areas. Practice good personal hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics.

### SECTION 9: Physical and Chemical Properties

Physical State: Liquid

Color: clear & colorless

Odor: no data available

pH: no data available

Vapor Pressure: no data available

Vapor Density: no data available (air=1)

Evaporation Rate: Not available

Viscosity: no data available

LEL: no data available vol%

UEL: no data available vol %

Boiling Point: 100 °C ( 212 °F)

Freezing/Melting Point: no data available °C ( °F)

Decomposition Temperature: no data available

Solubility in water: no data available

Specific Gravity/Density: 0.963 g/cm<sup>3</sup>

Molecular Formula: C<sub>10</sub>H<sub>22</sub>O<sub>4</sub>

Molecular Weight: 206.28

Flash Point: 113 °C (235 °F)

Auto-ignition Temperature: no data available °C ( °F)

Partition coefficient: n-octanol/water log Pow: at 25 °C (77 °F)

### SECTION 10: Stability and Reactivity

**Stability:** Tripropylene Glycol Monomethyl Ether is stable at room temperature in closed container under normal storage and handling conditions.

**Polymerization:** Hazardous polymerization has not been reported.

**Conditions to Avoid:** Ignition sources, electrical sparks, exposure to flame, heat.

**Incompatibilities:** Strong oxidizing agents.

**Hazardous Decomposition Products:** Carbon monoxide, carbon dioxide

### SECTION 11: Toxicological Information

#### *Toxicity Data:*

#### **Acute Toxicity:**

LD50 Oral - Rat - male and female - 3,500 mg/kg

Inhalation: No data available

LD50 Dermal - Rabbit - male - 15,440 mg/kg

No data available

#### **Skin corrosion/irritation (Skin – Rabbit)**

Result: No skin irritation - 24 h

\* See NIOSH, *RTECS (UB8070000)*, for additional toxicity data.

**Epidemiology:** No information found

**Teratogenicity:** No information found

**Reproductive Effects:** No information found

**Mutagenicity:** No information found

**Neurotoxicity:** No information found

### SECTION 12: Ecological Information

#### **Toxicity**

Toxicity to fish static test LC50 - Pimephales promelas (fathead minnow) - 11,619 mg/l - 96 h

Toxicity to daphnia and other aquatic invertebrates

Immobilization LC50 - Daphnia magna (Water flea) - > 10,000 mg/l - 48 h

#### **Persistence and degradability**

Biodegradability aerobic - Exposure time 28 d

Result: 66 % - Readily biodegradable

#### **Bio-accumulative potential**

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No data available

### Mobility in soil

No data available

## SECTION 13: Disposal Considerations

**Disposal:** No data available

**Disposal Regulatory Requirements:** No data available

**Container Cleaning and Disposal:** No data available

## SECTION 14: Transport Information

Not regulated for transportation

| US DOT(49 CFR 172.101): |                 |
|-------------------------|-----------------|
| UN Number:              | <b>IATA</b>     |
| PSN:                    | UN Number:      |
| Hazard Class:           | PSN:            |
| Packing Group:          | Hazard Class:   |
|                         | Packing Group:  |
| IDG                     |                 |
| UN Number:              | <b>IMDG/IMO</b> |
| PSN:                    | UN Number:      |
| Hazard Class:           | PSN:            |
| Packing Group:          | Hazard Class:   |
|                         | Packing Group:  |

## SECTION 15: Regulatory Information

### REGULATORY INFORMATION

#### SARA 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

#### SARA 313 Components

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

#### SARA 311/312 Hazards

No SARA Hazards

#### Massachusetts Right To Know Components

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

#### Pennsylvania Right To Know Components

[2-(2-Methoxymethylethoxy)methylethoxy]propanol

#### New Jersey Right To Know Components

[2-(2-Methoxymethylethoxy)methylethoxy]propanol

#### California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

## SECTION 16: Other Information

**Disclaimer:** All information, recommendations and suggestions appearing herein are based upon sources believed to be reliable: However, it is the users responsibility to determine the safety, toxicity and suitability for its own use of this product. THE CHEMICAL SUPPLY, DOES NOT ASSUME ANY LIABILITY ARISING OUT OF THE USE BY OTHERS OF THIS PRODUCT.