



5515 North Service Rd. #306  
Burlington, Ontario L7L 6G4

Phone: 905-337-7411  
Fax: 905-337-1686

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Our commitment to sustainability.



**Responsible Distribution Canada**  
Leaders in Chemicals and Ingredients

## 1. PRODUCT IDENTIFICATION

**Name:** *Glycol Ether TPM*

**Synonyms:** *(2-(2-Methoxymethylethoxy)methylethoxy)propanol; tripropylene glycol methyl ether; TPM*

**CAS#** 25498-49-1

**Product Uses:** *high boiling solvent for polymer-containing coatings and slow evaporating inks*

**Supplier Identifier:** *Megaloid Laboratories Limited  
5515 North Service Road, Suite 306, Burlington, ON L7L 6G4  
Phone: 905-337-7411 / Fax: 905-337-1686*

**EMERGENCY INFORMATION:** **Call CHEMTREC @ (800) 424-9300 (CCN # 693764)**

## 2. HAZARDS

<b>GHS Class</b> <i>(category)</i>		<b>Non Hazardous</b>			
<b>Signal Words</b>		<b>NONE</b>			
<b>Hazard Statements</b>		<b>NONE</b>			

## 3. COMPOSITION

<b>Chemical Name:</b>	<b>CAS No.</b>	<b>%</b>	<b>Other Identifiers</b>
<i>Glycol Ether TPM</i>	<i>25498-49-1</i>	<i>100</i>	<i>EC # 247-045-4</i>

## 4. FIRST AID

### Inhalation

*Remove from contaminated area promptly. CAUTION: Rescuer must not endanger himself! If breathing stops, administer artificial respiration and seek medical aid promptly.*

### Skin Contact

*Wash with plenty of water. Remove contaminated clothing and do not reuse until thoroughly laundered.*

### Eye Contact

*Wash eyes with plenty of water, holding eyelids open. Seek medical assistance if there is any irritation.*

### Ingestion

Give plenty of water to dilute product. Do not induce vomiting (NOTE below). Keep victim quiet. If vomiting occurs, lower victim's head below hips to prevent inhalation of vomited material. Seek medical help promptly.

#### **First-aid Comments**

*Inadvertent inhalation of vomited material may seriously damage the lungs. The danger of this is greater than the risk of poisoning through absorption of this relatively low-toxicity substance. The stomach should only be emptied under medical supervision, and after the installation of an airway to protect the lungs.*

## **5. FIRE FIGHTING & FLAMMABILITY**

### **Extinguishing Media**

#### **Suitable Extinguishing Media**

*Foam, dry chemical, water fog, water spray, product floats on water*

### **Combustion Products**

*Carbon monoxide, nitrogen oxides, smoke, part oxidised hydrocarbon fragments*

### **Special Protective Equipment and Precautions for Fire-fighters**

*Firefighters must wear SCBA. Fire-fighters may enter the area if positive pressure SCBA and full Bunker Gear is worn.*

## **6. ACCIDENTAL RELEASE MEASURES**

### **Personal Precautions, Protective Equipment, and Emergency Procedures**

*Restrict access to area until completion of cleanup. Ensure cleanup is conducted by trained personnel only. Wear adequate personal protective equipment. Ventilate area. Extinguish or remove all ignition sources. Notify government occupational health and safety and environmental authorities.*

### **Environmental Precautions**

*It is good practice to prevent releases into the environment.*

### **Methods and Materials for Containment and Cleaning Up**

*Leak Precaution: dyke to control spillage and prevent environmental contamination handling  
Spill: recover free liquid with suitable pumps; absorb residue on an inert sorbent, sweep, shovel & store in closed containers for recycling or disposal.*

### **Other Information**

*Report spills to local health, safety and environmental authorities, as required.*

## **7. HANDLING & STORAGE**

### **Precautions for Safe Handling**

*Glycol Ether TPM may react with air slowly to form explosive peroxides. If prolonged storage is anticipated, flush headspace with dry nitrogen before sealing.*

### **Conditions for Safe Storage**

*Store in a cool, dry environment, away from sources of ignition, heat and oxidizing agents. Always ensure that containers, whether empty or full, are tightly sealed unless in use. Avoid generating or breathing product vapour or mist. Never cut, drill, weld or grind on or near this container. Avoid prolonged contact with skin and wash work clothes frequently. An eye bath must be available near the workplace.*

## **8. EXPOSURE CONTROL & PERSONAL PROTECTION**

**Ontario TWAEV** *Not listed*

**Ontario STEV** *Not listed*

ACGIH TLV *Not listed*  
OSHA PEL *Not listed*

ACGIH STEL *Not listed*  
OSHA STEL *Not listed*

<b>Ventilation</b>	<i>Mechanical ventilation may be required to control airborne titre; depending on handling procedures.</i>
<b>Hands</b>	<i>Nitrile or "Viton" gloves recommended - other types also protect; confirm suitability with supplier.</i>
<b>Eyes</b>	<i>Safety glasses with side shields – always protect the eyes</i>
<b>Clothing</b>	<i>Special protective clothing is not generally necessary.</i>

### Appropriate Engineering Controls

*Use local exhaust ventilation, or other engineering controls to maintain airborne levels below exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, general ventilation should be sufficient for most operations. Local exhaust ventilation may be necessary for some operations.*

## 9. PHYSICAL PROPERTIES

<b>Appearance</b>	<i>Clear colourless liquid.</i>
<b>Odour</b>	<i>sweetish ether odour</i>
<b>Odour threshold</b>	<i>not known</i>
<b>pH</b>	<i>none – (does not liberate hydrogen ions when dissolved)</i>
<b>Melting Point/Freezing Point</b>	<i>-60°C / -76°F</i>
<b>Initial Boiling Point/Range</b>	<i>243°C / 470°F</i>
<b>Flash Point</b>	<i>&gt;121°C / &gt;250°F (closed cup)</i>
<b>Evaporation Rate</b>	<i>0.0026 (Butyl Acetate = 1)</i>
<b>Flammability ( Solid, Gas)</b>	<i>Not Available</i>
<b>Upper/Lower Flammability or Explosive Limit</b>	<i>not known</i>
<b>Vapour Pressure</b>	<i>0.017mmHg / 0.002kPa (25°C / 77°F)</i>
<b>Vapour Density (air = 1)</b>	<i>7.1</i>
<b>Specific Gravity</b>	<i>0.967 (20/20°C)</i>
<b>Solubility</b>	<i>not known</i>
<b>Partition Coefficient, n-Octanol/Water (Log Kow)</b>	<i>0.08</i>
<b>Auto-ignition Temperature</b>	<i>270°C / 518°F</i>
<b>Decomposition Temperature</b>	<i>no decomposition up to Auto-ignition Temperature</i>

<b>Viscosity</b>	5.5 centipoise (25°C / 77°F)
<b>Physical State</b>	Liquid
<b>Molecular Weight</b>	206grams per mole
<b>Molecular Formula</b>	C10-H22-O4

## 10. REACTIVITY

**Dangerously Reactive** with strong oxidising agents.  
**Also Reactive** with strong acids, strong alkalis

### Chemical Stability

Stable (Some glycol ethers can form peroxides during prolonged storage in contact with air. Formation of peroxides occur more readily in sunlight. Peroxides may be flammable and explosive); will not polymerize.

### Possibility of Hazardous Reactions

None known.

### Conditions to Avoid

Elevated temperature accelerates decomposition'

### Incompatible Materials

Apart from Hazardous Combustion Products, potentially explosive peroxides

## 11. TOXICITY

Prolonged & extensive exposure (10,000mg/kg/day for 90 days!) caused kidney damage in rabbits; this level of exposure is unlikely to occur in industry

Acute Toxicity	
<b>LD<sub>50</sub> (oral)</b>	3180 – 5460mg/kg (rat) – 4 studies, 4835mg/kg (dog) – very old data (1911)
<b>LD<sub>50</sub> (skin)</b>	15,440mg/kg (rabbit), >19,300mg/kg (rabbit)
<b>LC<sub>50</sub> (inhalation)</b>	not known

### Skin Corrosion/Irritation

Little to no effect.

### Serious Eye Damage/Irritation

Slightly irritating based on animal testing.

### STOT (Specific Target Organ Toxicity) - Single Exposure

#### Inhalation

May irritate above 100ppm – concentration unobtainable unless strongly heated; narcosis expected at 1000ppm – again unobtainable at ambient temperature.

#### Skin Absorption

Slight; no toxic effects likely by this route.

#### Ingestion

Nausea, vomiting & diarrhoea expected in cases of substantial ingestion; far more than could occur by accident; not a route of industrial exposure.

## STOT (Specific Target Organ Toxicity) - Repeated Exposure

Do not breathe vapours. If inhaled remove person to fresh air and keep comfortable for breathing.

### Respiratory and/or Skin Sensitization

Not a sensitizer in humans or animals.

### Carcinogenicity / Tumorigen

Not considered a tumorigen or a carcinogen in humans or animals. IARC: Not specifically listed. ACGIH®: Not specifically designated. NTP: Not specifically listed.

## Reproductive Toxicity

### Sexual Function and Fertility

No known effect in humans or animals.

### Germ Cell Mutagenicity

Not known to be a mutagen.

## 12. ECOLOGICAL INFORMATION

<b>Bioaccumulation</b>	<i>not a bioaccumulator</i>
<b>Persistence and Degradability</b>	<b>Biodegradation -</b> <i>biodegrades readily in the presence of oxygen; 52% in 20 days – expect 60% in 28 days achievable also 72% in 28 days</i>
	<b>Abiotic Degradation -</b> <i>reacts with atmospheric hydroxyl radicals with a ½-life of 2.2 hours</i>
<b>Mobility in soil, water</b>	<i>water soluble; moves readily in soil and water</i>
<b>Aquatic Toxicity</b>	
<b>LC50 (Fish, 96hr)</b>	<i>11,620mg/litre (Pimephales promelas)</i>
<b>EC50 (Crustacea, 48hr)</b>	<i>&gt;10,000mg/litre (Daphnia magna)</i>
<b>EC50 (Algae)</b>	<i>21,000mg/litre (Pseudokirchnerella subcapitata)</i>
<b>EC50 (Bacteria)</b>	<i>&gt;10,000mg/litre (Salmonella typhimurium) 2000mg/litre (sewage sludge) – stimulated growth by 75%!</i>

## 13. DISPOSAL

### Water Disposal

**Do not flush to sewer**, recycle solvent if possible, local regulations may permit disposal in sanitary landfill, may be incinerated in approved facility after mixing with a suitable flammable waste

### Containers

**Drums** should be reused. Recondition and pressure test by a licensed reconditioner prior to re-use.

**Pails** must be vented and thoroughly dried prior to crushing and recycling.

**IBCs** (intermediate bulk containers): polyethylene bottle must be pressure tested & recertified at 30 months. Replace at 60 months (5yrs).

**Steel containers** must be inspected, pressure tested & recertified every 5 years.

***Never cut, drill, weld or grind on or near this container, even if empty***

## 14. TRANSPORT CLASSIFICATION

Canada TDG AND U.S.A. 49 CFR	PIN Shipping Name Class & Packing Group	Not regulated for transport
Marine Pollutant ERAP Required Reportable Quantity Emergency Response Guide No.	Not a Marine Pollutant NO NO NO	

**Important Note:** Shipping descriptions may vary based on mode of transport, quantities, package size, and/or origin and destination. Consult your company's Hazardous Materials/Dangerous Goods expert for information specific to your situation.

## 15. REGULATIONS

Canada DSL U.S.A. TSCA Europe EINECS	On Inventory On Inventory On Inventory
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### Canadian Regulations

#### CEPA - National Pollutant Release Inventory (NPRI)

Not specifically listed.

### U.S.A. Regulations

**SARA 302/304:** This product contains no known chemicals regulated under SARA 302/304.

**SARA 313:** This product contains no known chemicals regulated under SARA 313.

### State Reporting

**California Proposition 65T:** This material is not known to contain a chemical substance known to the State of California to cause cancer, reproductive, or developmental toxicity under California Proposition 65.

**New Jersey's Worker and Community Right to Know Act:** This product contains no known chemicals regulated by New Jersey's Worker and Community Right to Know Act.

#### Massachusetts Right to Know Act:

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

#### Pennsylvania's Right to Know Act:

This product contains no known chemicals regulated by Pennsylvania's Right to Know Act.

### Regulatory

Listed on the AICS (Australian Inventory of Chemical Substances)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory

Listed on the Korean ECL (Existing Chemicals List)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Listed on INSQ (Mexican national Inventory)

## 16. THER INFORMATION

<b>NFPA RATING</b>	<b>Health</b> 1	<b>Flammability</b> 1	<b>Instability</b> 0
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Prepared for Megaloid Laboratories Limited by Richard Koscher  
 Preparation Date: January 2004  
 Revision Dates: February 2007, Feb 2010; Feb 2013, May 2015, April 2018, Jan 2019

<b>Key to Abbreviations</b>	<p>ACGIH® = American Conference of Governmental Industrial Hygienists          AIHA® = AIHA® Guideline Foundation          HSDB® = Hazardous Substances Data Bank          IARC = International Agency for Research on Cancer          NFPA = National Fire Protection Association          NIOSH = National Institute for Occupational Safety and Health          NTP = National Toxicology Program          OSHA = US Occupational Safety and Health Administration          RTECS® = Registry of Toxic Effects of Chemical Substances</p>
<b>References</b>	<p>CHEMINFO database. Canadian Centre for Occupational Health and Safety (CCOHS). HSDB® database. US National Library of Medicine. Available from Canadian Centre for Occupational Health and Safety (CCOHS). NIOSH Pocket Guide database. National Institute for Occupational Safety and Health. Available from Canadian Centre for Occupational Health and Safety (CCOHS). Registry of Toxic Effects of Chemical Substances (RTECS®) database. Dassault Systèmes/BIOVIA ("BIOVIA"). Available from Canadian Centre for Occupational Health and Safety (CCOHS).</p>
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