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**Responsible Care®**  
Our commitment to sustainability.



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

## 1. IDENTIFICATION

**Name:** *Tripropylene Glycol*

**Synonyms:** *propanol, [(1-methyl-1,2-ethanediyl)bis(oxy)]bis-; 2-(2-(2-hydroxypropoxy)propoxy)-1-propanol*

**Product Uses:** *brake & hydraulic fluids, resin mfg., plasticiser; solvent in pharmaceuticals, insecticides*

**Supplier Identifier:** *Megaloid Laboratories Limited  
5515 North Service Road # 306  
Burlington, ON L7L 6G4*

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

## 2. HAZARD IDENTIFICATION

<b>GHS Class</b> <i>(category)</i>	<b>NOT HAZARDOUS</b>
<b>Signal Word</b>	<i>None</i>
<b>Hazard Statements</b>	<i>None</i>

**GHS Precautionary Statements for Labelling - NONE**

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

<b>Chemical Name:</b>	<b>CAS No.</b>	<b>%</b>	<b>Other Identifiers</b>
<i>Tripropylene Glycol</i>	<i>24800-44-0</i>	<i>100</i>	<i>EC # 246-466-0</i>

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## 4. FIRST-AID MEASURES

### 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.

### Most important symptoms and effects, both acute and delayed

High doses may cause fatigue, dizziness, depression, loss of concentration. This product is of low acute toxicity. May cause irritation of the eyes and skin.

### Notes to physician

Treat symptomatically

*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 non-toxic substance. The stomach should only be emptied under medical supervision, and after the installation of an airway to protect the lungs.*

## 5. FIRE FIGHTING MEASURES

### Suitable Extinguishing Media

Water fog or fine spray. Dry chemical fire extinguishers.

### Unsuitable Extinguishing Media

Do not use solid water stream. May spread fire.

### Specific Hazards Arising from the Product

During a fire, smoke may contain the original material in addition to combustion products of varying composition which may be toxic and/or irritating. Violent steam generation or eruption may occur upon application of direct water stream to hot liquids.

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

Firefighters must wear SCBA

### Static Charge Accumulation

Cannot accumulate a static charge

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

Use personal protective equipment

### Methods and materials for containment and cleaning up

Dyke to control spillage and prevent environmental contamination. Recover free liquid with suitable pumps; absorb residue on an inert sorbent, sweep, shovel & store in closed containers for recycling or disposal.

## 7. HANDLING & STORAGE

### Precautions for Safe Handling

Never cut, drill, weld or grind on or near this container. Avoid prolonged contact with skin & wash work clothes frequently. An eye bath should be available near the workplace.

### Conditions for Safe Storage

Tripropylene glycol absorbs moisture from the air (hygroscopic). To preserve quality, store in a dry environment, away from open flame & oxidising agents.

## 8. EXPOSURE CONTROL & PERSONAL PROTECTION

**Ontario TWAEV** Not listed  
**AGGIH TLV** Not listed  
**OSHA PEL** Not listed

**Ontario STEV** Not listed  
**ACGIH STEL** Not listed  
**OSHA STEL** Not listed

<b>Ventilation</b>	if product mist forms in use, install adequate mechanical ventilation to clear workplace air
<b>Hands</b>	no special protective gloves required
<b>Eyes</b>	safety glasses with side shields – <i>always protect the eyes</i>
<b>Clothing</b>	no special protective clothing required

## 9. PHYSICAL & CHEMICAL PROPERTIES

<b>Odour &amp; Appearance</b>	clear, colourless, sweet, hygroscopic, viscous liquid with no odour
<b>Odour threshold</b>	not known – odourless
<b>pH</b>	none – <i>(does not liberate hydrogen ions when dissolved)</i>

<b>Melting point/Freezing point</b>	-30°C / -22°F1, also -47°C / -53°F1 – super cools readily
<b>Initial boiling point/boiling range</b>	263-280°C / 505-536°F, also 270°C / 518°F <sup>1</sup>
<b>Flash point</b>	141°C to 149°C / 285°F to 300°F (closed cup) <sup>1</sup>
<b>Evaporation rate</b> ( <i>Butyl Acetate = 1</i> )	not known – not considered volatile
<b>Flammability (solid; gas)</b>	no date available
<b>Lower flammable/explosive limit</b>	no date available
<b>Upper flammable/explosive limit</b>	no date available
<b>Vapour pressure</b>	0.00196mmHg / <0.00026kPa (20°C / 68°F) <sup>1</sup> ; 1mmHg / 0.13kPa (96°C / 200°F)
<b>Vapour density</b> (air = 1)	6.6
<b>Relative density</b> (water =1)	1.0177 - 1.0277 at 20 °C (68 °F) / 20 °C ASTM D4052
<b>Water Solubility</b>	100 % at 20 °C (68 °F) Literature
<b>Log PO/W (Octanol/H2O partition)</b>	0.418 <sup>1</sup> , also -0.38 <sup>1</sup>
<b>Auto ignition temperature</b>	232°C to 260°C / 450°F to 500°F <sup>1</sup>
<b>Decomposition temperature</b>	not known – <i>no decomposition expected below the auto ignition temperature</i>
<b>Viscosity</b>	107 centipoise (25°C / 77°F), also 78 & 86centipoise (20°C) <sup>1</sup>
<b>Conversion Factor</b>	128 ppm = 1mg/litre
<b>Molecular Weight</b>	192 grams per mole

## 10. STABILITY AND REACTIVITY

### Reactivity

Strong oxidising agents

### Chemical Stability

Stable; will not polymerize

### Possibility of Hazardous Reactions

Polymerization will not occur.

### Conditions to avoid

High temperatures, oxidizing conditions.

**Incompatible materials**

Strong oxidizing agents. Strong acids.

**Hazardous decomposition products**

None apart from Hazardous Combustion Products

**Sensitive to Mechanical Impact**

No

**11. TOXICOLOGICAL INFORMATION**

Acute Toxicity	
<b>Skin Contact</b>	“not irritating” <sup>1</sup>
<b>Skin Absorption</b>	slight; no toxic effects possible by this route
<b>Eye Contact</b>	“not irritating” <sup>1</sup> , will not damage eyes
<b>Inhalation</b>	unlikely route of entry for a viscous product with low vapour pressure
<b>Ingestion</b>	unknown; virtually without effect – <i>not a route of industrial exposure</i>
<b>LD<sub>50</sub> (oral)</b>	11,500 mg/kg (rat) <sup>1</sup> , >2000mg/kg (rat) – <i>no mortality or symptoms reported at this dose</i> <sup>1</sup>
<b>LD<sub>50</sub> (skin)</b>	>16,320 mg/kg (rabbit) – <i>no symptoms of toxicity at this dose</i> <sup>1</sup>
<b>LC<sub>50</sub> (inhalation)</b>	>>10,600 ppm (rat) – <i>no symptoms of toxicity at this dose</i> <sup>1</sup>

**11. TOXICITY, CONTINUED****General**

Little effect; 1000mg/kg/day elevated liver weight in rats – *not relevant to industrial exposure*

**Sensitising**

Not a sensitiser<sup>1</sup>

**Carcinogen/Tumorigen**

Not considered a tumorigen or a carcinogen in humans or animals<sup>1</sup>

**Reproductive Effect**

No known effect in humans or animals<sup>1</sup>

**Mutagen/Teratogen**

No known effect in humans or animals<sup>1</sup>

**Synergistic with**

Not known

## 12. ECOLOGICAL INFORMATION

<b>Bioaccumulation</b>	Not a bioaccumulator
<b>Biodegradation</b>	84% in 28 days ( <i>DIN 38312 L 25 – Zahn-Wellens test</i> ); 46% in 64 days ( <i>sea water – OECD 306</i> ); 60%, 82% & 92% in 28 days ( <i>sewage sludge</i> ) <sup>1</sup> – <i>biodegradation is not very rapid</i>
<b>Abiotic Degradation</b>	reacts with atmospheric hydroxyl radicals; ½-life 3-14 hours, also ½-life is 2.3hr <sup>1</sup>
<b>Mobility in soil, water</b>	water soluble; moves readily in soil and water
<b><i>Aquatic Toxicity</i></b>	
<b>LC<sub>0</sub> (Fish, 96hr)</b>	>10,000mg/litre (Brachydanio rerio) – <i>an EC0 – no mortality,</i>
<b>LC<sub>50</sub> (Fish, 96hr)</b>	>1000mg/litre (Oryzias latipes) <sup>1</sup>
<b>LC<sub>50</sub> (Crustacea, 96hr)</b>	>10,000mg/litre (Daphnia magna), >1000mg/litre (Daphnia magna, 24hr) <sup>1</sup>
<b>EC<sub>10</sub> (Algae, 72hr)</b>	>5000mg/litre (Scenedesmus subspicatis) – <i>this is an EC10, not an EC50 – very little effect</i>
<b>EC<sub>50</sub> (Algae, 72hr)</b>	>1000mg/litre (Pseudokirchnerella subcapitata) <sup>1</sup>
<b>EC<sub>50</sub> (Bacteria, 24hr)</b>	>50,000mg/litre (“activated sludge”)
<b>EC<sub>20</sub> (Bacteria, 3hr)</b>	>1000mg/litre (“activated sludge”) <sup>1</sup>

## 13. DISPOSAL

### Waste 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 INFORMATION

Canada TDG AND U.S.A. 49 CFR	UN / PIN # Shipping Name Class & Packing Group	Not regulated for transport Not regulated for transport Not regulated for transport
Marine Pollutant ERAP Required (CA only) Emergency Response Guide No. Reportable Quantity (RQ – USA only)		Not a marine pollutant No No None

## 15. REGULATORY INFORMATION

Canada DSL U.S.A. TSCA Europe EINECS	On Inventory On Inventory On Inventory
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## 16. OTHER INFORMATION

<b>NFPA RATING</b>	Health 1	Flammability 1	Instability 0
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Data from RTECS, HSDB (Haz. Substance Data Base), Cheminfo (CCOHS), IUCLID Datasheets (ESIS – European Chem. Substance Info. System), & others.

(1) European Chemicals Agency (ECHA) dossier for [(methylethylene)bis(oxy)]dipropanol:  
<https://echa.europa.eu/registration-dossier/-/registered-dossier/14788/1>

Prepared for Megaloid Laboratories by Rob Cangiano  
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<b>Key to Abbreviations</b>	ACGIH® = American Conference of Governmental Industrial Hygienists AIHA® = AIHA® Guideline Foundation HSDB® = Hazardous Substances Data Bank IARC = International Agency for Research on Cancer 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
<b>References</b>	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).
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