



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

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megaloid.ca



Responsible Care®
Our commitment to sustainability.



RDC
Responsible Distribution Canada
Leaders in Chemicals and Ingredients

1. IDENTIFICATION

Name: Glycol Ether PnP

Synonyms: 1- propoxy-2-propanol, n-propoxypropanol, alpha-propylene glycol n-propyl ether; 1-propoxy-2-hydroxypropane, propylene glycol n-propyl ether; PnP & others

Product Uses: Solvent in coatings and hard surface cleaners

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

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

2. HAZARD IDENTIFICATION

GHS Class (category)	Flammable (3)	Eye irritant (2A)
Signal Word	WARNING	
Hazard Statements	Flammable liquid and vapour (H226)	Causes serious eye irritation (H319)

Hazardous Pictograms



GHS Precautionary Statements for Labelling

Prevention:

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P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No Smoking
P233	Keep container tightly closed.
P240	Ground and bond container and receiving equipment.
P241	Use explosion-proof electrical, ventilating, and/or lighting equipment.
P242	Use non-sparking tools.
P243	Take action to prevent static discharges.
P264	Wash skin thoroughly after handling.
P280	Wear protective gloves, protective clothing, eye protection and/or face protection.
Response:	
P303	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
P337	If eye irritation persists: Get medical advice and/or attention.
P378	In case of fire use alcohol-resistant foam to extinguish.
P305, P351, P338	If in eyes, rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
Storage:	
P403	Store in a well-ventilated place.
Disposal:	
P501	Dispose of contents and/or container to an approved waste disposal plant.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name:	CAS No.	Weight %	Other Identifiers
Propylene Glycol mono-n-Propyl Ether	1569-01-3	100 %	EC# 250-069-8

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, loss of concentration, dizziness.

Causes eye irritation

May be harmful if swallowed

May be harmful if swallowed and enters airways

May irritate 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 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 MEASURES

Suitable Extinguishing Media

Use water spray, water fog or alcohol-resistant foam.

Unsuitable Extinguishing Media

Do not use solid water stream

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. Combustion Products carbon monoxide, nitrogen oxides, part oxidised hydrocarbon fragments (including formaldehyde, acetaldehyde & other irritating aldehydes)

Special Protective Equipment and Precautions for Fire-fighters

Alcohol resistant foam, dry chemical, water fog or spray; firefighters must wear SCBA

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Dike to control spillage and prevent environmental contamination

Methods and materials for containment and cleaning up

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

Store in a cool, dry environment, away from sources of ignition, heat and oxidising agents. Avoid generating or breathing product vapour or mist. If vapour or mist form in use, install adequate ventilation to clear workplace air. Never cut, drill, weld or grind on or near this container. Avoid prolonged contact with skin & wash work clothes frequently. An eye bath must be available near the workplace.

Conditions for Safe Storage

This product may react with oxygen in the air to form explosive or flammable peroxides. Ensure that containers are full & tightly sealed. If prolonged storage is anticipated, flush container headspace with dry nitrogen gas. Empty containers may contain a flammable / explosive vapour.

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

Ventilation	mechanical ventilation may be required to control airborne titre; depending on handling procedures
Hands	no special protective gloves required; butyl or "Viton" gloves are resistant – <i>confirm suitability with supplier</i>
Eyes	safety glasses with side shields – <i>always protect the eyes</i>
Clothing	no special gloves required

9. PHYSICAL & CHEMICAL PROPERTIES

Odour & Appearance	clear, colourless, hygroscopic liquid with mild ether odour
Odour threshold	not known
pH	none – <i>(does not liberate hydrogen ions when dissolved)</i>

Melting point/Freezing point	-80°C / -112°F; also -70°C / -94°F ¹
Initial boiling point/boiling range	149°C / 300°F ¹
Flash point	46°C / 115°F (Setaflash, closed cup) ¹ , 48°C / 115°F (closed cup)
Evaporation rate (Butyl Acetate = 1)	0.22
Flammability (solid; gas)	no data available
Lower flammable/explosive limit	1.1%
Upper flammable/explosive limit	15%
Vapour pressure	1.7mmHg / 0.23kPa (20°C / 68°F); 2.85mmHg / 0.38kPa (25°C / 77°F) ¹
Vapour density (air = 1)	4.1
Relative density (water =1)	0.886 (20/20°C)
Water Solubility	Complete
Log POW (Octanol/H₂O partition)	0.621 ¹ , also 0.49 ¹
Auto ignition temperature	252°C / 486°F ¹
Decomposition temperature	not known
Viscosity	2.4 centipoise (25°C / 77°F) ¹
Conversion Factor	1ppm = 4.84mg/m ³
Molecular Weight	118 grams per mole

10. STABILITY AND REACTIVITY

Reactivity

Dangerously Reactive with - strong oxidising agents may cause fire; may react violently with aluminium chloride or boron trichloride releasing hydrogen chloride

Also Reactive with - inorganic hypochlorites to form explosive organic hypochlorites and/or chloroform (toxic); reacts with epoxides; reacts with halogen gases & alkali metals to release hydrogen and strong alkali; reacts with strong acids, aldehydes & some ketones to cause heating

Chemical Stability

Stable under recommended storage conditions

Possibility of Hazardous Reactions

Polymerization will not occur.

Conditions to avoid

Do not distill to dryness.

Incompatible materials

Strong acids. Strong bases. Strong oxidizers.

Hazardous decomposition products

potentially explosive peroxides

Sensitive to Mechanical Impact

No

11. TOXICOLOGICAL INFORMATION

Acute Toxicity	
Skin Contact	mildly irritating <i>if contact is not prolonged</i> ¹
Skin Absorption	slight; no toxic effects likely by this route
Eye Contact	moderately & severely irritating ¹
Inhalation	high concentrations (<i>saturated vapour</i>) may irritate & cause headache, dizziness, nausea, etc.
Ingestion	may cause headache, nausea, vomiting – <i>not a route of industrial exposure</i>
LD₅₀ (oral)	2875mg/kg (rat), (♀)2500 & (♂)4350mg/kg (rat), 3410mg/kg (rat) ¹
LD₅₀ (skin)	2805, 3535 & 4050 ¹ mg/kg (rabbit) (♂)3800 & (♀)4350mg/kg (rabbit)
LC₅₀ (inhalation)	>2450ppm (rat) – <i>no mortality seen</i>

11. TOXICITY, CONTINUED

General - prolonged exposure may cause dermatitis & inflamed (red) skin

Sensitising - not a sensitiser in humans or animals¹

Carcinogen/Tumorigen - not considered a tumorigen or a carcinogen in humans or animals

Reproductive Effect - no known effect in humans, *teratogen in rats (but not rabbits) at doses causing maternal toxicity (below)*

Mutagen - no known effect on humans or animals¹

Synergistic with - not known

NOAEL (rat) - 300mg/kg/day (*maternal*), 1000mg/kg/day (*reproduction*)¹

NOAEL (rat) - 750ppm (*maternal*), 1500ppm (*developmental*)¹

12. ECOLOGICAL INFORMATION

Bioaccumulation	not a bioaccumulator
Biodegradation	biodegrades readily in the presence of oxygen; 91% in 27 days ¹
Abiotic Degradation	reacts with atmospheric hydroxyl radicals; estimated ½-life in air is 15 hours
Mobility in soil, water	water soluble; moves readily in soil and water
Aquatic Toxicity	
LC₅₀ (Fish, 96hr)	above 100mg/litre (Oncorhynchus mykiss) ¹
EC₅₀ (Crustacea, 48hr)	above 100mg/litre (Daphnia magna) ¹
EC₅₀ (Algae)	3440mg/litre (Pseudokirchnerella subcapitata) ¹
EC₁₀ (Bacteria)	<i>no data available</i>

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	UN / PIN #	UN1993	
AND	Shipping Name	FLAMMABLE LIQUID, N.O.S.(1- Propoxy-2- propanol)	
U.S.A. 49 CFR	Class & Packing Group	3, III	
Marine Pollutant ERAP Required (CA only)		Not a marine pollutant	
Emergency Response Guide No.		No	
Reportable Quantity (RQ – USA only)		128	
		No	

15. REGULATORY INFORMATION

Canada DSL	On Inventory
U.S.A. TSCA	On Inventory
Europe EINECS	On Inventory

16. OTHER INFORMATION

NFPA RATING	Health 2	Flammability 2	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 1-propoxypropan-2-ol: <http://echa.europa.eu/registration-dossier/-/registered-dossier/2020>

Prepared for Megaloid Laboratories by Rob Cangiano
Preparation Date: May 2002

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Revision Dates:

May 2005, June 2008, June 2011, Nov 2011, Feb 2013, April 2016, November 2019

Key to Abbreviations	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
References	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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