



Comet Chemical Company Ltd.
3463 Thomas Street Innisfil ,ON L9S 3W4
Tel: (705) 436-5580 Fax: (705) 436-7194

Material Safety Data Sheet

PROPYLENE GLYCOL

Revision Date: 2008/07/16

Section 1 : PRODUCT AND COMPANY IDENTIFICATION

Chemical family: Not available.

Product uses: Non-toxic antifreeze, food additives, inks.

Product name: Propylene Glycol

Supplier: Comet Chemical Ltd.
3463 Thomas Street
Innisfil, On.
L9S 3W4.

Supplier 24 hour phone number: (705)436-5580 – weekdays from 8:00-5:00.
(800)567-7455 all other times (Newalta Services).

Section 2 : INGREDIENT INFORMATION

C.A.S.	CONCENTRATION %	Ingrédient	V.L.E.	DL/50	CL/50
57-55-6	100	1,2-PROPANEDIOL	NOT AVAILABLE	20,000 MG/KG RAT ORAL 20,300 MG/KG MOUSE ORAL 18,500 MG/KG RABBIT ORAL 20,800 MG/KG RABBIT DERMAL	NOT AVAILABLE

Section 2A: ADDITIONAL INGREDIENT INFORMATION

Note: (supplier).
CAS# 57-55-6: LD50 18,300 mg/kg rat oral.

Section 3 : HAZARD IDENTIFICATION

Route of entry: Eye contact, skin contact, skin absorption, inhalation and ingestion.

Effects of acute exposure

Eye contact: Mildly irritating.

Skin contact: No adverse effects expected.

Skin absorption: No adverse effects are expected with normal use.

Inhalation: No adverse effects expected.

Ingestion: Slightly toxic.
May cause pulmonary edema.
May cause convulsions.

Effects of chronic exposure: May cause irritation.

Sensitization to product: No

Carcinogenic effects: Not listed as a carcinogen.

Reproductive effects: No

Teratogenicity: Not available.

Mutagenicity: Not available.

Synergistic materials: None known.

Section 4 : FIRST AID MEASURES

Skin contact: Wash thoroughly with soap and water.
Remove contaminated clothing.
Consult a physician if irritation persists.

Eye contact: Flush eyes with clear, running water for 15 minutes while holding eyelids open. If irritation persists, consult a physician.

Inhalation: Remove victim to fresh air. If not breathing, qualified personnel should administer artificial respiration. Get medical attention.

Ingestion: Obtain immediate medical attention.
Do not induce vomiting, keep person warm, quiet.
Guard against aspiration of liquids into lungs.
If vomiting occurs, keep head below hips.
If conscious, give several glasses of water.
Never give anything by mouth to an unconscious person.

Section 5 : FIRE FIGHTING MEASURES

Flammability: Not flammable.

Conditions of flammability: At temperatures at or above flash point.

Extinguishing media: Dry chemical.
Foam
Water fog.
Do not use water jet.

Special procedures: Firefighters should wear adequate protective gear.
Self-contained breathing apparatus required.
Use water spray to cool fire exposed containers.

Auto-ignition temperature (°C): 371°C

Flash point (°C), method: Closed Cup.
99°C

**Lower flammability
limit (% vol):** 2.6%

**Upper flammability
limit (% vol):** 12.5%

Explosion Data

Sensitivity to static discharge: Not sensitive.

- Sensitivity to mechanical impact:** Not sensitive.
- Hazardous combustion products:** Carbon monoxide (CO).
Nitrogen oxides (NO_x).
- Rate of burning:** Not available.
- Explosive power:** May form explosive peroxides.

Section 6 : ACCIDENTAL RELEASE MEASURES


- Leak/Spill:** Dike area to prevent spreading.
Ventilate area.
Wear appropriate protective equipment.
Soak up with inert absorbent.
Pump to containers or soak up on inert absorbent.
Place in a closed container for disposal.
Do not flush to sewer.

Section 7 : HANDLING AND STORAGE

- Handling procedures and equipment:** Keep away from heat, sparks, and open flame.
Avoid breathing vapors/mists.
Use adequate ventilation.
Wear personal protective equipment appropriate to task.
Use proper grounding procedures.
Avoid contact with skin, eyes and clothing.
Do not cut, grind, weld or drill on or near containers.
Launder contaminated clothing prior to reuse.
Do not ingest.
- Storage requirements:** Store away from all sources of ignition.
Store away from incompatible materials.
Store in a cool, dry and well ventilated area.

Section 8 : EXPOSURE CONTROLS / PERSONAL PROTECTION

Precautionary Measures

- Gloves/Type:** Not required.
- Respiratory/Type:** None normally required.
- Eye/Type:** 
Safety glasses with side-shields.
- Footwear/Type:** Safety shoes per local regulations.
- Clothing/Type:** No special requirements.
- Other/Type:** Eye wash facility should be in close proximity.
Emergency shower should be in close proximity.
- Ventilation requirements:** Adequate ventilation.
- Exposure limit of material:** Not available.

Section 9 : PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Liquid.

Appearance & odor: Odourless.
Colourless.
Clear
Hygroscopic.

Odor threshold (ppm): Not available.

Vapour pressure (mmHg): 0.07 mmHg / 0.009 kPa @ 20°C

Vapour density (air=1): 2.6

Volatiles (%)

By volume: Not available.

**Evaporation rate
(butyl acetate = 1):** Not available.

Boiling point (°C): 188°C

Freezing point (°C): -60°C

pH: Not available.

Specific gravity @ 20 °C: 1.038

Solubility in water (%): Complete.
(soluble in alcohols).
(soluble in ethers).
(soluble in ketones).

Coefficient of water\oil dist.: Not available.

VOC: Not available.

Section 10 : STABILITY AND REACTIVITY

Chemical stability: Stable under normal conditions.

Conditions of instability: Contact with incompatible substances.

Hazardous polymerization: Will not occur.

Incompatible substances: Strong oxidizing agents.

**Hazardous decomposition
products:** See hazardous combustion products.

Section 11 : TOXICOLOGICAL INFORMATION

LD50 of product, species & route: 21,000 mg/kg rabbit dermal.

LC50 of product, species & route: Not available.

Section 12 : ECOLOGICAL INFORMATION

Environmental toxicity: No data at this time.

Environmental fate: No data at this time.

Section 13 : DISPOSAL CONSIDERATIONS

Waste disposal: In accordance with municipal, provincial and federal regulations.
May be incinerated.

Section 14 : TRANSPORT INFORMATION

TDG classification: Not regulated.

Special shipping information: See transportation information.

Section 15 : REGULATORY INFORMATION

WHMIS classification: Not controlled.

DSL status: Appears on DSL.

Section 16 : OTHER INFORMATION

Supplier MSDS date: 2008/07/16

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