



Comet Chemical Company Ltd.
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Material Safety Data Sheet

TRIETHYLENE GLYCOL

Revision Date: 2008/08/08

Section 1 : PRODUCT AND COMPANY IDENTIFICATION

Chemical family: Not available.

Product uses: Heat transfer fluid.

Product name: Triethylene 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
112-27-6	100	TRIETHYLENE GLYCOL	NOT AVAILABLE	15,000 MG/KG RAT ORAL 8400 MG/KG RABBIT ORAL > 20 ML/KG RABBIT DERMAL	NOT AVAILABLE

Section 3 : HAZARD IDENTIFICATION

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

Effects of acute exposure

Eye contact: May cause discomfort.
May cause blinking and tearing.

Skin contact: No hazard known.

Skin absorption: Not considered toxic by skin absorption.

Inhalation: No adverse effects expected.

Ingestion: Abdominal discomfort may occur.
May cause nausea and vomiting.

Effects of chronic exposure: May cause lung damage.
May cause liver and kidney damage.

Sensitization to product: No

Carcinogenic effects: Not listed as a carcinogen.

Reproductive effects: May cause adverse reproductive effects in animals.

Teratogenicity: None known.

Mutagenicity: None known.

Synergistic materials: None known.

Section 4 : FIRST AID MEASURES

Skin contact: Remove contaminated clothing.
Wash thoroughly with soap and water.
Seek medical attention 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.
Induce vomiting.
Guard against aspiration of liquids into lungs.
If vomiting occurs, keep head below hips.
Never give anything by mouth to an unconscious person.
Immediately drink plenty of water.

Section 5 : FIRE FIGHTING MEASURES

Flammability: Not flammable.

Conditions of flammability: Vapours may travel to a source of ignition and flash back.
At temperatures at or above flash point.

Extinguishing media: Foam
Water fog.
Do not use water jet.
Alcohol foam.

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.
166°C

**Lower flammability
limit (% vol):** 0.9%

**Upper flammability
limit (% vol):** 9.2%

Explosion Data

Sensitivity to static discharge: Not sensitive.

Sensitivity to mechanical impact: Not sensitive.
Hazardous combustion products: Carbon monoxide (CO).
Smoke
Nitrogen oxides (NO_x).
Partially oxidized hydrocarbons.
Rate of burning: Not available.
Explosive power: Not available.

Section 6 : ACCIDENTAL RELEASE MEASURES


Leak/Spill: Eliminate all sources of ignition.
Dike area to prevent spreading.
Prevent entry into drains, sewers, and other waterways.
Ventilate area.
Wear appropriate protective equipment.
Ground handling equipment.
Recover free liquid.
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.
Use adequate ventilation.
Wear personal protective equipment appropriate to task.
Wash thoroughly after handling.
Use proper grounding procedures.
Avoid contact with eyes.
Do not cut, grind, weld or drill on or near containers.
Launder contaminated clothing prior to reuse.
Storage requirements: Store away from incompatible materials.
Store in a cool and dry place.
Keep away from heat, and ignition sources.

Section 8 : EXPOSURE CONTROLS / PERSONAL PROTECTION

Precautionary Measures

Gloves/Type: 

Rubber or vinyl.

Respiratory/Type: 

If TLV is exceeded, wear an approved respirator.



Dust/mist type recommended.

Eye/Type: 

Safety glasses with side-shields.



Or goggles.

Footwear/Type: Safety shoes per local regulations.

Clothing/Type: As required to prevent skin contact.

Other/Type: Eye wash facility should be in close proximity.
Emergency shower should be in close proximity.

Ventilation requirements: Ventilate adequately.
As needed to stay below TLV.

Exposure limit of material: Not available.

Section 9 : PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Liquid.

Appearance & odor: Odourless.
Clear
Viscous liquid.
Sweet taste.
Colorless.

Odor threshold (ppm): None

Vapour pressure (mmHg): <0.01 @ 20°C

Vapour density (air=1): 5.2

Volatiles (%)

By volume: Not available.

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

Boiling point (°C): 287°C

Freezing point (°C): Supercools.
-4°C

pH: None

Specific gravity @ 20 °C: 1.125

Solubility in water (%): Complete.

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 acids.
Strong alkalies.
Strong oxidizing agents.
Hydroxyl compounds.

Hazardous decomposition products: See hazardous combustion products.

Section 11 : TOXICOLOGICAL INFORMATION

LD50 of product, species & route: 2200 mg/kg rat oral.
20,000 mg/kg rabbit dermal.
(estimated).
17,000 mg/kg rat oral.
18,000 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: 2008/08/08

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