



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

# Material Safety Data Sheet

## ETHYLENE GLYCOL

Revision Date: 2008/05/27

### Section 1 : PRODUCT AND COMPANY IDENTIFICATION

**Chemical family:** Not available.

**Product uses:** Antifreeze, humectant, plasticizer, hydraulic fluid, solvent.

**Product name:** Ethylene 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
107-21-1	100	ETHYLENE GLYCOL	100 MG/M3 (CL)	4700 MG/KG RAT ORAL  5500 MG/KG MOUSE ORAL  9530 UL/KG RABBIT DERMAL	NOT AVAILABLE

### Section 2A: ADDITIONAL INGREDIENT INFORMATION

**Note:** (supplier).  
CAS# 107-21-1: LD50 9500 mg/kg rabbit dermal (supplier).  
CAS# 107-21-1: TLV 50 ppm.  
CAS# 107-21-1: LC50 10,900 ppm inhalation.

### Section 3 : HAZARD IDENTIFICATION

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

#### Effects of acute exposure

**Eye contact:** Moderate eye irritant.  
No permanent injury expected.

**Skin contact:** Non-irritating.

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

**Inhalation:** May cause respiratory irritation if heated.

**Ingestion:** Ingestion is initially stimulating, intoxicating, then depressing followed by convulsions and coma; cardiopulmonary failure may occur then followed by renal failure and death.

**Effects of chronic exposure:** May cause neurological disturbances.  
May affect the vision.  
May cause renal failure.

**Sensitization to product:** Not expected to be a sensitizer.

**Carcinogenic effects:** Not listed as a carcinogen.

**Reproductive effects:** Reproductive effects reported in animals.

**Teratogenicity:** Teratogenic effects reported in animals.

**Mutagenicity:** Not available.

**Synergistic materials:** Not available.

#### 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):** Lowest known value.  
398°C

**Flash point (°C), method:** Closed Cup.  
111°C

**Lower flammability limit (% vol):** 3.2%

**Upper flammability limit (% vol):** 15%

**Explosion Data**

**Sensitivity to static discharge:** Not sensitive.

**Sensitivity to mechanical impact:** Not sensitive.

**Hazardous combustion products:** Carbon monoxide (CO).  
Smoke  
Nitrogen oxides (NO<sub>x</sub>).

**Rate of burning:** Not available.

**Explosive power:** Not available.

**Section 6 : ACCIDENTAL RELEASE MEASURES**

**Leak/Spill:** Dike area to prevent spreading.  
Ventilate area.  
Wear appropriate protective equipment.  
Soak up with 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.  
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:**



Neoprene or butyl rubber.

**Respiratory/Type:** None required under normal use.  
If TLV is exceeded.



NIOSH approved organic vapors.

**Eye/Type:**



Safety glasses with side-shields.



Chemical safety goggles.

**Footwear/Type:** Non-slip footwear recommended.

**Clothing/Type:** Normal work clothes.

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

**Ventilation requirements:** As needed to stay below TLV.

**Exposure limit of material:** See hazardous ingredients section.

## Section 9 : PHYSICAL AND CHEMICAL PROPERTIES

**Physical state:** Liquid.

**Appearance & odor:** Odourless.  
Viscous.  
Colourless.  
Clear  
Hygroscopic.

**Odor threshold (ppm):** Not available.

**Vapour pressure (mmHg):** 0.05 @ 20°C

**Vapour density (air=1):** 2.1

### Volatiles (%)

**By volume:** Not available.

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

**Boiling point (°C):** 198°C

**Freezing point (°C):** -13°C

**pH:** Not available.

**Specific gravity @ 20 °C:** 1.115

**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 and alkalis.  
Strong oxidizing agents.

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

#### Section 11 : TOXICOLOGICAL INFORMATION

**LD50 of product, species & route:** 4700 mg/kg rat oral.  
9500 mg/kg rabbit dermal.  
5500 mg/kg mouse oral.

**LC50 of product, species & route:** 10,900 ppm rat inhalation.

#### 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:**

D2A



**DSL status:** Appears on DSL.

#### Section 16 : OTHER INFORMATION

**Supplier MSDS date:** 2008/05/27

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