



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

## Material Safety Data Sheet

### TRIETHANOLAMINE

Revision Date: 2008/08/12

#### Section 1 : PRODUCT AND COMPANY IDENTIFICATION

**Chemical family:** Mixture.

**Product uses:** Waxes, toilet goods, herbicides, cutting oils, textile industry lubricants, solvent, shellac, dyes.

**Product name:** Triethanolamine

**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
102-71-6	85	TRIETHANOLAMINE	5 MG/M3	4920 UL/KG RAT ORAL 5846 MG/KG MOUSE ORAL 2200 MG/KG RABBIT ORAL > 20 ML/KG RABBIT DERMAL > 16 ML/KG RAT DERMAL	NOT AVAILABLE
111-42-2	15	DIETHANOLAMINE	2 MG/M3 (SKIN)	620 UL/KG RAT ORAL 3300 MG/KG MOUSE ORAL 2200 MG/KG RABBIT ORAL 7640 MG/KG RABBIT DERMAL	NOT AVAILABLE

#### Section 3 : HAZARD IDENTIFICATION

**Route of entry:** Skin contact, eye contact, inhalation and ingestion.

##### Effects of acute exposure

**Eye contact:** Temporary irritation.

**Skin contact:** Irritant.  
May cause redness.  
May cause pain.

**Skin absorption:** Not absorbed through the skin.

**Inhalation:** Irritant.  
May cause discomfort to nasal passages.  
May cause nasal discharge.

**Ingestion:** Irritant.  
May cause abdominal pain.  
May cause burns to mouth, throat, and stomach.  
May cause sleeplessness.

**Effects of chronic exposure:** May cause liver and kidney damage.  
May cause allergic reaction.

**Sensitization to product:** Allergic reaction in certain individuals.

**Carcinogenic effects:** Animal evidence.

**Reproductive effects:** May cause adverse reproductive effects in animals.

**Teratogenicity:** Not available.

**Mutagenicity:** Not available.

**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:** Do not induce vomiting. Keep person warm, quiet and get medical attention.  
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:** At temperatures at or above flash point.

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

**Special procedures:** Firefighters should wear adequate protective gear.  
Self-contained breathing apparatus required.  
Use water spray to cool fire exposed containers.  
This material may produce a floating fire hazard.

**Auto-ignition temperature (°C):** Not applicable.

**Flash point (°C), method:** >140°C

**Lower flammability limit (% vol):** Not applicable.

**Upper flammability limit (% vol):** Not applicable.

**Explosion Data**

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

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

**Hazardous combustion products:** Carbon monoxide (CO).  
Oxides of nitrogen (NO<sub>x</sub>).  
Smoke  
Ammonia (NH<sub>3</sub>).

**Rate of burning:** Not available.

**Explosive power:** Not available.

**Section 6 : ACCIDENTAL RELEASE MEASURES**

**Leak/Spill:** Dike area to prevent spreading.  
Prevent entry into drains, sewers, and other waterways.  
Ventilate area.  
Wear appropriate protective equipment.  
Recover free liquid.  
Pump to containers or soak up on inert absorbent.  
Neutralize with dilute hydrochloric acid.  
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.  
Wash thoroughly after handling.  
Avoid contact with skin, eyes and clothing.  
Launder contaminated clothing prior to reuse.

**Storage requirements:** Store away from incompatible materials.  
Keep away from ignition sources.  
Store in a cool, dry and well ventilated area.  
Store in heavy duty steel or plastic containers.


**Section 8 : EXPOSURE CONTROLS / PERSONAL PROTECTION**

**Precautionary Measures**

**Gloves/Type:**



Butyl rubber.  
Neoprene or nitrile.


**Respiratory/Type:** 

NIOSH approved organic vapour cartridge respirator when vapour/mist exposure is likely.

**Eye/Type:** 

Safety glasses with side-shields.

**Footwear/Type:** Safety shoes per local regulations.

**Clothing/Type:** 

Impervious apron.  
When splashing is possible.

**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 for mixture, see the ingredients section.

## Section 9 : PHYSICAL AND CHEMICAL PROPERTIES

**Physical state:** Liquid.

**Appearance & odor:** Ammonia odour.  
Pale yellow.  
Clear  
Viscous liquid.

**Odor threshold (ppm):** (diethanolamine).  
0.3

**Vapour pressure (mmHg):** <0.01

**Vapour density (air=1):** 5

### Volatiles (%)

**By volume:** Not available.

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

**Boiling point (°C):** 268°C–335°C

**Freezing point (°C):** 16°C

**pH:** Strong alkali.  
10–12

**Specific gravity @ 20 °C:** 1.12

**Solubility in water (%):** 100 @ 20°C

**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:** Acids  
Copper (Cu).  
Strong oxidizing agents.

**Hazardous decomposition products:** See hazardous combustion products.  
Decomposes @ 170°C.

#### Section 11 : TOXICOLOGICAL INFORMATION

**LD50 of product, species & route:** (estimated).  
1650 mg/kg oral.  
13,900 mg/kg dermal.

**LC50 of product, species & route:** Not available.  
Estimated.

#### 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:**

D2B



**DSL status:** The substance(s) listed in section 2 appear on the Domestic Substances List.

#### Section 16 : OTHER INFORMATION

**Supplier MSDS date:** 2008/08/12

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