



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

Material Safety Data Sheet

TOLUENE

Revision Date: 2008/08/07

Section 1 : PRODUCT AND COMPANY IDENTIFICATION

Chemical family: Not available.

Product uses: Solvent, diluent.

Product name: Toluene

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
108-88-3	100	TOLUENE	50 PPM (SKIN)	636 MG/KG RAT ORAL 14,100 UL/KG RABBIT DERMAL	49,000 MG/M3/4 HOURS RAT INHALATION 400 PPM/24 HOURS MOUSE INHALATION 10,000 MG/M3 MOUSE INHALATION 30,000 MG/M3/2H MOUSE INHALATION

Section 3 : HAZARD IDENTIFICATION

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

Effects of acute exposure

Eye contact: Severe irritant.
May cause permanent damage.

Skin contact: Irritant.
May cause drying.

Skin absorption: Not considered toxic by skin absorption.

Inhalation: Irritant.
Intoxication.
Headache and incoordination.
May cause drowsiness.
May cause confusion.
May cause fatigue.
Dizziness.

- Ingestion:** May cause drowsiness.
May cause dizziness.
May cause headache.
May cause signs of intoxication.
- Effects of chronic exposure:** May cause liver and kidney damage.
May aggravate an existing dermatitis.
Prolonged or repeated overexposure may cause drying and cracking of the skin (dermatitis).
- Sensitization to product:** No
- Carcinogenic effects:** Not listed as a carcinogen.
- Reproductive effects:** May cause adverse reproductive effects in animals.
- Teratogenicity:** Not available.
- Mutagenicity:** None known.
- Synergistic materials:** Not available.

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.
Do not induce vomiting, keep person warm, quiet.
Guard against aspiration of liquids into lungs.
If vomiting occurs, keep head below hips.
Never give anything by mouth to an unconscious person.
Drink milk.

Section 5 : FIRE FIGHTING MEASURES

- Flammability:** Flammable.
- Conditions of flammability:** Vapours may travel to a source of ignition and flash back.
Heat, sparks and open flames.
- 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.
This material may produce a floating fire hazard.
- Auto-ignition temperature (°C):** 480°C–550°C
- Flash point (°C), method:** 4.4°C–6°C

Lower flammability limit (% vol): 1.2%

Upper flammability limit (% vol): 7.1%

Explosion Data

Sensitivity to static discharge: Take precautionary measures against static discharge.

Sensitivity to mechanical impact: Not sensitive.

Hazardous combustion products: Carbon monoxide (CO).
Oxides of nitrogen (NO_x).
Smoke
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.
Use non-sparking tools.
Explosion proof motors are recommended.
Recover free liquid.
Pump to containers or soak up on inert absorbent.
Place in a closed container for disposal.
Do not flush to sewer.
Blanket spill with foam to protect against accidental ignition.
Do not operate electrical appliances near spill.

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.
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.

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: Viton gloves.
Barricade gloves.
Responder gloves.
Trelchem gloves.

Respiratory/Type: None required under normal use.
NIOSH approved respirator with organic vapor cartridge is required if ventilation is inadequate or exposure limits are exceeded.

Eye/Type:



Safety glasses with side-shields.



Or goggles.

Footwear/Type:



Impervious boots.
When splashing is possible.

Clothing/Type: Long sleeve shirt, long trousers.



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: See hazardous ingredients section.

Section 9 : PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Liquid.

Appearance & odor: Colourless.
Clear
Petroleum odour.

Odor threshold (ppm): 0.2–37

Vapour pressure (mmHg): 22mmHg/7.1kPa @ 20°C.

Vapour density (air=1): 3.1

Volatiles (%)

By volume: Not available.

Evaporation rate (butyl acetate = 1): Not available.
Boiling point (°C): 110.6°C
Freezing point (°C): -95°C
pH: Not available.
Specific gravity @ 20 °C: 0.868
Solubility in water (%): 0.6 g/l @ 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: Strong oxidizing agents.
Molten sulphur.
Fuming nitric acid (HNO₃).
Concentrated sulfuric acid.
Bromine trifluoride (BrF₃).
Hazardous decomposition products: May react with air to form explosive peroxides.

Section 11 : TOXICOLOGICAL INFORMATION

LD50 of product, species & route: (estimated).
12,000 mg/kg rabbit dermal.
650–4000 mg/kg oral.
LC50 of product, species & route: Estimated.
400–8800 ppm.

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: TOLUENE
UN1294
Class 3
PG II.



Special shipping information: See transportation information.

Section 15 : REGULATORY INFORMATION

WHMIS classification:

B2, D2B.



DSL status: Appears on DSL.

Section 16 : OTHER INFORMATION

Supplier MSDS date: 2008/08/07

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