



Comet Chemical Company Ltd.  
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## Material Safety Data Sheet

### METHYL ETHYL KETONE

Revision Date: 2008/07/10

#### Section 1 : PRODUCT AND COMPANY IDENTIFICATION

**Chemical family:** Not available.

**Product uses:** Solvent in paints.

**Product name:** Methyl Ethyl Ketone

**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
78-93-3	100	METHYL ETHYL KETONE (MEK)	200 PPM	2737 MG/KG RAT ORAL 3000 MG/KG MOUSE ORAL 6480 MG/KG RABBIT DERMAL	23,500 MG/M3/8H RAT INHALATION 32,000 MG/M3/4H MOUSE INHALATION

#### Section 2A: ADDITIONAL INGREDIENT INFORMATION

**Note:** (supplier).  
CAS# 78-93-3: LC50 8000 ppm rat inhalation.  
CAS# 78-93-3: LD50 2350 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:** May cause permanent eye damage.  
Severe irritant.

**Skin contact:** May cause drying and irritation.

**Skin absorption:** May be harmful if absorbed through the skin.

**Inhalation:** Intoxication.  
May cause drowsiness.  
Irritation of respiratory system.  
Headaches, dizziness.

**Ingestion:** May cause dizziness.  
May cause headache and drowsiness.  
May cause abdominal pain.  
May cause signs of intoxication.  
Burning sensation in mouth and throat.

**Effects of chronic exposure:** May cause lung damage.  
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:** Reproductive effects reported in animals.

**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.  
If conscious, give several glasses of water.  
Never give anything by mouth to an unconscious person.  
Keep head lower than hips to prevent aspiration.

**Additional information:** The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any inaccuracies.

#### Section 5 : FIRE FIGHTING MEASURES

**Flammability:** Flammable.

**Conditions of flammability:** 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.  
Product will float and can be reignited on water surface.

**Auto-ignition temperature (°C):** 404°C

**Flash point (°C), method:** Closed Cup.  
(range -6 to -2°C).  
-4°C

**Lower flammability  
limit (% vol):** 1.8%

**Upper flammability  
limit (% vol):** 11.5%

#### Explosion Data

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

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

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

**Rate of burning:** Not available.

**Explosive power:** Explosive peroxides may form on prolonged storage in contact with air and heat.

### Section 6 : ACCIDENTAL RELEASE MEASURES

**Leak/Spill:** Eliminate all sources of ignition.  
Dike area to prevent spreading.  
Ventilate area.  
Wear appropriate protective equipment.  
Ground handling equipment.  
Use non-sparking tools.  
Explosion proof motors are recommended.  
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.  
Blanket spill with foam to protect against accidental ignition.

### 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:**



Butyl rubber.  
Barricade gloves.  
Tychem 10,000 gloves.

**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:**



Impervious boots.

**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:** 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:** Clear  
Colorless.  
Sharp sweetish acetone-like odour.

**Odor threshold (ppm):** (range).  
2–85 ppm

**Vapour pressure (mmHg):** 78 mmHg @ 20°C

**Vapour density (air=1):** 2.4

**Volatiles (%)**

**By volume:** Not available.

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

**Boiling point (°C):** 80°C

**Freezing point (°C):** -86°C

**pH:** Not available.

**Specific gravity @ 20 °C:** 0.806 (20°C)

**Solubility in water (%):** (also soluble in alcohols, ethers, oils and other hydrocarbons).  
26% (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:** None known.

**Hazardous polymerization:** Will not occur.

**Incompatible substances:** Chlorinated compounds.  
Strong acids and alkalis.  
Strong oxidizing agents.

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

**Section 11 : TOXICOLOGICAL INFORMATION**

**LD50 of product, species & route:** 6500 mg/kg – rabbit dermal.  
2350 mg/kg rat oral.  
4050 mg/kg mouse oral.

**LC50 of product, species & route:** 13,000 ppm mouse inhalation.  
8000 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:** METHYL ETHYL KETONE  
UN1193  
Class 3  
PG II.



**Special shipping information:** See transportation information.

**Section 15 : REGULATORY INFORMATION**

**WHMIS classification:**

B2, D2A, D2B.



**DSL status:** Appears on DSL.

**Section 16 : OTHER INFORMATION**

**Supplier MSDS date:** 2008/06/30

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