



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

## Material Safety Data Sheet

### METHYL ISOBUTYL KETONE

Revision Date: 2008/07/10

#### Section 1 : PRODUCT AND COMPANY IDENTIFICATION

**Chemical family:** Not available.

**Product uses:** Solvent in paints and inks.

**Product name:** Methyl Isobutyl 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
108-10-1	100	METHYL ISOBUTYL KETONE	50 PPM	2080 MG/KG RAT ORAL 1900 MG/KG MOUSE ORAL	100,000 MG/M3 RAT INHALATION 23,300 MG/M3 MOUSE INHALATION

#### Section 2A: ADDITIONAL INGREDIENT INFORMATION

**Note:** (supplier).  
Cas# 108-10-1 LD50 >3000 mg/kg rabbit dermal.  
CAS# 108-10-1: LD50 1600 mg/kg rat oral.  
CAS# 108-10-1: LC50 5600 ppm inhalation.

#### 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:** No adverse effects are expected with normal use.  
May be absorbed through the skin.

**Inhalation:** Intoxication.  
May cause anesthetic effects.  
Headaches, dizziness.  
Nausea.

**Ingestion:** May cause dizziness and headache.  
May cause abdominal pain.  
Nausea.  
Burning sensation.

**Effects of chronic exposure:** May cause lung 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:** No effects reported.

**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):** 448°C

**Flash point (°C), method:** Closed Cup.  
13–18°C

**Lower flammability  
limit (% vol):** 1.2%

**Upper flammability  
limit (% vol):** 8%

**Explosion Data**

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

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

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

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



NIOSH approved organic vapors.

**Eye/Type:**



Safety glasses with side-shields.

**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  
Sharp odour.  
Sweetish odor.  
Colorless.

**Odor threshold (ppm):** (range).  
0.1–8 ppm

**Vapour pressure (mmHg):** 15 mmHg / 2 kPa @ 20°C

**Vapour density (air=1):** 3.45

### Volatiles (%)

**By volume:** Not available.

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

**Boiling point (°C):** 117°C

**Freezing point (°C):** -80°C

**pH:** Not available.

**Specific gravity @ 20 °C:** 0.802

**Solubility in water (%):** 20 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:** None known.

**Hazardous polymerization:** Will not occur.

**Incompatible substances:** Potassium tert-butoxide.  
Strong alkalies.  
Strong oxidizing agents.

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

### Section 11 : TOXICOLOGICAL INFORMATION

**LD50 of product, species & route:** 3000 mg/kg rabbit dermal.  
2100 mg/kg rat oral.  
1900 mg/kg mouse oral.

**LC50 of product, species & route:** 5800 ppm = 23,300 mg/m<sup>3</sup> inhalation mouse.  
24,350 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 ISOBUTYL KETONE  
UN1245  
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:** 2008/07/10

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