



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

# Material Safety Data Sheet

## DI-ISOBUTYL KETONE

Revision Date: 2008/05/14

### Section 1 : PRODUCT AND COMPANY IDENTIFICATION

**Chemical family:** Mixture.

**Product uses:** Solvent for nitrocellulose lacquer, resins, inks, coatings.

**Product name:** Di-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
108-83-8	85	DIISOBUTYL KETONE	25 PPM	15750 MG/KG RAT ORAL 1416 MG/KG MOUSE ORAL 16,000 MG/KG RABBIT DERMAL	NOT AVAILABLE

### Section 2A: ADDITIONAL INGREDIENT INFORMATION

**Note:** (supplier).  
CAS# 108-83-3: 5249 mg/kg rat oral.  
CAS# 108-83-8: LD50 >2713 mg/kg rabbit dermal.  
CAS# 68476-85-7 LC50 >3125 ppm 4 hr rat.

### Section 3 : HAZARD IDENTIFICATION

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

#### Effects of acute exposure

**Eye contact:** May cause redness and pain.  
Irritant.

**Skin contact:** Mild irritant.

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

- Inhalation:** May cause drowsiness.  
May cause headache and dizziness.
- Ingestion:** May cause dizziness.  
May cause headache and drowsiness.  
May cause abdominal pain.  
May cause burning sensation in mouth, throat and stomach.

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

**Sensitization to product:** No

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

**Reproductive effects:** None known.

**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.  
Give large quantities of water to drink.  
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.

**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:** Combustible.

**Conditions of flammability:** Heat, sparks and open flames.

**Extinguishing media:** Dry chemical.  
Foam  
Water fog.  
Water spray.  
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.

**Auto-ignition temperature (°C):** 396°C

**Flash point (°C), method:** Closed Cup.  
49°C

**Lower flammability  
limit (% vol):** 0.8%

**Upper flammability  
limit (% vol):** 7.1%

**Explosion Data**

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

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

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

**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.  
Use non-sparking tools.  
Explosion proof motors are recommended.  
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.

**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.  
Polyvinyl alcohol gloves.

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




NIOSH approved organic vapors.

**Eye/Type:** 

Safety glasses with side-shields.



Splash proof chemical goggles.

**Footwear/Type:** 

Impervious boots.

**Clothing/Type:** Long sleeve shirt, long trousers.  
When splashing is possible.  
Impervious clothing.

**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:** Clear  
Colorless.  
Mild, slightly unpleasant odor.

**Odor threshold (ppm):** 0.1 ppm

**Vapour pressure (mmHg):** 1.7 @ 20°C

**Vapour density (air=1):** 4.9

### Volatiles (%)

**By volume:** Not available.

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

**Boiling point (°C):** 165°C

**Freezing point (°C):** -46°C

**pH:** Not available.

**Specific gravity @ 20 °C:** 0.81

**Solubility in water (%):** 0.5 g/L

**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.

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

#### Section 11 : TOXICOLOGICAL INFORMATION

**LD50 of product, species & route:** 5249 mg/kg rat oral.  
> 2713 mg/kg rabbit dermal.

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

#### 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:** DIISOBUTYL KETONE  
UN1157  
Class 3  
PG III.

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

#### Section 15 : REGULATORY INFORMATION

**WHMIS classification:**

B3



**DSL status:** Appears on DSL.

<b>Section 16 : OTHER INFORMATION</b>
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**Supplier MSDS date:** 2008/05/14

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