



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

## Material Safety Data Sheet

### ACETONE

Revision Date: 2008/05/01

#### Section 1 : PRODUCT AND COMPANY IDENTIFICATION

**Chemical family:** Mixture.

**Product uses:** Solvent.  
Reagent.

**Product name:** Acetone

**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
67-64-1	100	ACETONE	500 PPM	5800 MG/KG RAT ORAL 3000 MG/KG MOUSE ORAL 5340 MG/KG RABBIT ORAL	50,100 MG/M3/8H RAT INHALATION  44,000 MG/M3/4H MOUSE INHALATION

#### Section 2A: ADDITIONAL INGREDIENT INFORMATION

**Note:** (supplier).  
CAS# 67-64-1: LC50 18,300 ppm inhalation.  
CAS# 67-64-1: LD50 3000 mg/kg rat oral.  
CAS# 67-64-1: LD50 8000 mg/kg rabbit dermal.

#### Section 3 : HAZARD IDENTIFICATION

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

##### Effects of acute exposure

**Eye contact:** Irritant.  
No permanent injury expected.

**Skin contact:** Mild irritant.  
May cause drying.

**Skin absorption:** No adverse effects are expected with normal use.

**Inhalation:** Irritant.  
Intoxication.  
May cause drowsiness.  
May cause anaesthesia effects.  
Headaches, dizziness.  
May cause weakness.

**Ingestion:** May cause dizziness.  
May cause headache and drowsiness.  
May cause signs of intoxication.

**Effects of chronic exposure:** Prolonged or repeated overexposure may cause drying and cracking of the skin (dermatitis).

**Sensitization to product:** Contains a suspected sensitiser.

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

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

**Teratogenicity:** Possible developmental hazard.

**Mutagenicity:** Not available.

**Synergistic materials:** Alcohol.  
Carbon tetrachloride.  
Chloroform.  
Trichloroethylene.  
Other halogenated compounds.

#### 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:** Extremely flammable.

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

**Extinguishing media:** Dry chemical.  
Foam  
Water fog.  
Water spray.  
Do not use direct water jet.  
Solid streams of water are likely to spread fire.

**Special procedures:** Firefighters should wear adequate protective gear.  
Self-contained breathing apparatus required.  
This product floats on water which creates a fire hazard.

**Auto-ignition temperature (°C):** 465°C

**Flash point (°C), method:** -18°C

**Lower flammability limit (% vol):** 2.6% @ 25°C

**Upper flammability limit (% vol):** 12.8% @ 25°C

#### Explosion Data

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

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

**Hazardous combustion products:** Carbon monoxide (CO).  
Smoke  
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.  
Ground handling 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.  
Cover with a fire-extinguishing foam.  
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 non-sparking tools.  
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.  
Barricade gloves.  
Responder gloves.  
Chemtrel gloves.  
Trellchem gloves.

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



NIOSH approved organic vapors.

**Eye/Type:**



Splash proof chemical goggles.

**Footwear/Type:**



Impervious boots.  
When splashing is possible.

**Clothing/Type:** Long sleeve shirt, long trousers.  
When splashing is possible.  
Butyl rubber apron.

**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  
Ketone odour.  
Sharp odour.  
Colorless.

**Odor threshold (ppm):** (varies from 4ppm to 600ppm).  
60 ppm

**Vapour pressure (mmHg):** 180–185 @ 20°C

**Vapour density (air=1):** 2

### Volatiles (%)

**By volume:** Not available.

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

**Boiling point (°C):** 56°C

**Freezing point (°C):** -94°C

**pH:** Not available.

**Specific gravity @ 20 °C:** 0.792

**Solubility in water (%):** Complete.

**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:** Sodium hydroxide.  
Bromine.  
Strong oxidizing agents.  
Concentrated nitric acid.  
Chromyl chloride.  
Nitrosyl perchlorate.  
Hexachloromelamine.  
Chromium trioxide.  
Potassium t-butoxide.  
Trichloromelamine.  
Barium hydroxide.

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

#### Section 11 : TOXICOLOGICAL INFORMATION

**LD50 of product, species & route:** 3000 mg/kg mouse oral (4H).  
5800 mg/kg rat oral.

**LC50 of product, species & route:** 18,300 ppm mouse inhalation.  
20,875 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:** ACETONE  
UN1090  
Class 3  
PG II.



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

**Section 15 : REGULATORY INFORMATION**

**WHMIS classification:**

B2, D2B.



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

**Section 16 : OTHER INFORMATION**

**Supplier MSDS date:** 2008/05/01

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