



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

# Material Safety Data Sheet

## ISOPHORONE

Revision Date: 2008/06/30

### Section 1 : PRODUCT AND COMPANY IDENTIFICATION

**Chemical family:** Mixture.

**Product uses:** Solvent for lacquers, polyvinyl resins.

**Product name:** Isophorone

**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
78-59-1	100	ISOPHORONE	5 PPM (CL)	1870 MG/KG RAT ORAL  1390 MG/KG RAT DERMAL  2690 MG/KG MOUSE ORAL  1420 MG/KG RABBIT ORAL  1500 UL/KG RABBIT DERMAL	7000 MG/M3 RAT INHALATION

### Section 2A: ADDITIONAL INGREDIENT INFORMATION

**Note:** (supplier).  
CAS# 78-59-1: TLV 4 ppm.  
CAS# 78-59-1: LD50 700 mg/kg rat oral.  
CAS# 78-59-1: LC50 4600 ppm rat 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 damage.  
Severe irritation.  
May cause corneal clouding.

- Skin contact:** Irritation.
- Skin absorption:** Toxic by skin absorption.
- Inhalation:** Irritant.  
Damage to the respiratory tract.
- Ingestion:** May be fatal.  
May cause narcosis.
- Effects of chronic exposure:** May cause lung damage.  
May cause dermatitis.  
May cause liver and kidney damage.
- Sensitization to product:** No
- Carcinogenic effects:** Effects reported laboratory animals.
- Reproductive effects:** Not available.
- Teratogenicity:** Not available.
- Mutagenicity:** Effects have been reported in animals.
- 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, 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.  
Keep at rest.  
If conscious, give large amounts of water.

#### Section 5 : FIRE FIGHTING MEASURES

- Flammability:** Combustible.
- 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.
- Auto-ignition temperature (°C):** 462°C

**Flash point (°C), method:** 84°C

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

**Upper flammability  
limit (% vol):** 3.8

**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.  
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.  
Caution – Cloth or paper soaked in this product may undergo spontaneous ignition.  
Never discard wiping cloths soaked in this product carelessly. Dry carefully before discarding.

**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:** 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:** See hazardous ingredients section.

## Section 9 : PHYSICAL AND CHEMICAL PROPERTIES

**Physical state:** Liquid.

**Appearance & odor:** Colourless.  
Clear  
Peppermint/camphor like odor.

**Odor threshold (ppm):** (objectionable at 10 ppm).  
~ 0.5 ppm

**Vapour pressure (mmHg):** 0.3 (0.04 kPa) @ 20°C

**Vapour density (air=1):** 4.8

### Volatiles (%)

**By volume:** Not available.

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

**Boiling point (°C):** 215°C

**Freezing point (°C):** -8°C

**pH:** Not available.

**Specific gravity @ 20 °C:** 0.923 (20°/20°)

**Solubility in water (%):** 12 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.

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

#### Section 11 : TOXICOLOGICAL INFORMATION

**LD50 of product, species & route:** 1500 mg/kg rabbit oral.  
700 mg/kg rat oral.  
2700 mg/kg mouse oral.

**LC50 of product, species & route:** 7000 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:** Not regulated.

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

#### Section 15 : REGULATORY INFORMATION

**WHMIS classification:**

B3, D2B.



**DSL status:** Appears on DSL.

**Section 16 : OTHER INFORMATION**

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

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