



Comet Chemical Company Ltd.
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Material Safety Data Sheet

CYCLOHEXANONE

Revision Date: 2008/06/14

Section 1 : PRODUCT AND COMPANY IDENTIFICATION

Chemical family: Not available.

Product uses: Synthesis of PVC, acrylic polymers, adipic acid.

Product name: Cyclohexanone

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 %	Ingédient	V.L.E.	DL/50	CL/50
108-94-1	100	CYCLOHEXANONE	20 PPM (SKIN)	1620 UL/KG RAT ORAL 1400 MG/KG MOUSE ORAL 1 ML/KG RABBIT DERMAL	8000 PPM/4H RAT INHALATION 2375 MG/KG MOUSE INHALATION 19000 MG/M3 RAT INHALATION

Section 2A: ADDITIONAL INGREDIENT INFORMATION

Note: (supplier).
CAS# 108-94-1: LD50 1000 mg/kg rabbit dermal.
CAS# 108-94-1: LD50 1350 mg/kg rat oral.
CAS# 108-94-1: LC50 2650 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 eye damage.
Severe irritation.

Skin contact: Mild irritant.

Skin absorption: Toxic by skin absorption.

Inhalation: Irritant.

Ingestion: May cause headache.
May cause signs of intoxication.
May cause narcosis.

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

Sensitization to product: No

Carcinogenic effects: No effects reported.

Reproductive effects: Experimental reproductive effects.

Teratogenicity: Not available.

Mutagenicity: Experimental effects reported.

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): Lowest known value.
420°C

Flash point (°C), method: 44°C

Lower flammability limit (% vol): 1.3%

Upper flammability limit (% vol): 9.4%

Explosion Data

Sensitivity to static discharge: Take precautionary measures against static discharge.

Sensitivity to mechanical impact: Not sensitive.

Hazardous combustion products: Carbon monoxide (CO).
Smoke
Nitrogen oxides (NO_x).

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.
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.
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.

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.



Face shield if splashing occurs.

Footwear/Type: Butyl rubber boots.

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: See hazardous ingredients section.

Section 9 : PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Liquid.

Appearance & odor: Clear
Mild pleasant odor.
Peppermint odor.
Colorless.

Odor threshold (ppm): 4 ppm

Vapour pressure (mmHg): 3 @ 20°C

Vapour density (air=1): 3.4

Volatiles (%)

By volume: Not available.

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

Boiling point (°C): 156°C

Freezing point (°C): (reported values vary from -15 to -53°C).
-32°C

pH: Not available.

Specific gravity @ 20 °C: 0.948

Solubility in water (%): 2.3 g/100g

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: Perchlorates.
Nitric acid.
Strong oxidizing agents.
Hydrogen peroxide.

Hazardous decomposition products: See hazardous combustion products.

Section 11 : TOXICOLOGICAL INFORMATION

LD50 of product, species & route: 1500 mg/kg rat oral.
1000 mg/kg Rabbit dermal.
1350 mg/kg mouse oral.
1500 mg/kg rabbit oral.

LC50 of product, species & route: 2650 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: CYCLOHEXANONE
UN1915
Class 3
PG III.



Special shipping information: See transportation information.

Section 15 : REGULATORY INFORMATION

WHMIS classification:

B3, D1B, D2B.



DSL status: Appears on DSL.

Section 16 : OTHER INFORMATION

Supplier MSDS date: 2008/06/14

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