



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

Material Safety Data Sheet

METHYLENE CHLORIDE

Revision Date: 2008/07/10

Section 1 : PRODUCT AND COMPANY IDENTIFICATION

Chemical family: Not available.

Product uses: Cleaning solvent.
Paint stripper.

Product name: Methylene Chloride

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
75-09-2	100	METHYLENE CHLORIDE	50 PPM	985 MG/KG RAT ORAL 873 MG/KG MOUSE ORAL 2000 MG/KG RABBIT ORAL	52,000 MG/M3/6H RAT INHALATION 14,400 PPM/7H MOUSE INHALATION 25000 MG/M3/2H MOUSE INHALATION 49100 MG/M3/6H MOUSE 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: Severe irritant.
May cause chemical burns.
May cause blistering.
May cause drying.

Skin absorption: May be harmful if absorbed through the skin.

Inhalation: May cause dizziness.
May cause headache and nausea.
May cause drowsiness.
May cause irritation.
Irritation of respiratory system.

Ingestion: May cause vomiting.
May cause dizziness.
May cause headache and drowsiness.
May cause abdominal pain.

Effects of chronic exposure: May cause liver damage.
Pre-existing heart diseases may be aggravated by exposure.
Prolonged or repeated overexposure may cause drying and cracking of the skin (dermatitis).
Product metabolises to carbon monoxide in the body – may seriously reduce the oxygen carrying capacity of blood!.

Sensitization to product: No

Carcinogenic effects: Experimental animals only.
The relationship to humans has not been fully established.

Reproductive effects: Effects have been reported in animals.

Teratogenicity: Not available.

Mutagenicity: Effects have been reported in animals.

Synergistic materials: Smoking.
Ethyl (grain) alcohol.

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.
If conscious, give several glasses of water.
Never give anything by mouth to an unconscious person.

Section 5 : FIRE FIGHTING MEASURES

Flammability: Not flammable.

Conditions of flammability: At temperatures at or above flash point.

Extinguishing media: All standard firefighting media.

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): 550°C

Flash point (°C), method: > 100°C

Lower flammability limit (% vol): 12% (under pressure in pure oxygen enriched air).

Upper flammability limit (% vol): 19% (under pressure in pure oxygen enriched air).

Explosion Data

Sensitivity to static discharge: Not sensitive.

Sensitivity to mechanical impact: Not sensitive.

Hazardous combustion products: Carbon monoxide (CO).
Phosgene.
Hydrogen chloride gas (HCl).
Chlorine gas.
Toxic and corrosive fumes.

Rate of burning: Not available.

Explosive power: Not available.

Section 6 : ACCIDENTAL RELEASE MEASURES

Leak/Spill: Dike area to prevent spreading.
Ventilate area.
Wear appropriate protective equipment.
Soak up with inert absorbent.
Place in a closed container for disposal.
Recover free liquid with pumps.
Do not flush to sewer.

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 smoking in area of use.
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.
This product should be used in a vapour degreaser or other closed cleaning apparatus.

Storage requirements: Store away from incompatible materials.
Store in a cool, dry and well ventilated area.

Section 8 : EXPOSURE CONTROLS / PERSONAL PROTECTION

Precautionary Measures

Gloves/Type:



Polyvinyl alcohol gloves.
Tychem 10,000 gloves.
Responder gloves.
Trellchem gloves.

Respiratory/Type: None required under normal use.
If TLV is exceeded.
NIOSH approved organic respirator.

Eye/Type: 

Safety glasses with side-shields.



Chemical safety goggles.

Footwear/Type: Safety shoes per local regulations.

Clothing/Type: Long sleeve shirt, long trousers.
When splashing is possible.
Tyvek 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: Colourless.
Clear
Mild ethereal odor.

Odor threshold (ppm): (range 2–440 ppm).
150 ppm

Vapour pressure (mmHg): 350 @ 20°C

Vapour density (air=1): 2.9

Volatiles (%)

By volume: Not available.

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

Boiling point (°C): 40°C

Freezing point (°C): –97°C

pH: Not available.

Specific gravity @ 20 °C: 1.329 (20°C)

Solubility in water (%): (soluble in most organic solvents).
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: Contact with incompatible substances.

Hazardous polymerization: Will not occur.

Incompatible substances: Amines.
Strong alkalis.
Corrosive to aluminum.
Strong oxidizing agents.
Metallic sodium.
Metallic potassium (K).
Metallic calcium.
Metallic magnesium.

Hazardous decomposition products: See hazardous combustion products.

Section 11 : TOXICOLOGICAL INFORMATION

LD50 of product, species & route: 1600 mg/kg – rat oral.

LC50 of product, species & route: 14,400 ppm mouse 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.

Section 14 : TRANSPORT INFORMATION

TDG classification: DICHLOROMETHANE
UN1593
Class 6.1
PG III.



Special shipping information: See transportation information.

Section 15 : REGULATORY INFORMATION

WHMIS classification:

D1B, D2A.



DSL status: Appears on DSL.

Section 16 : OTHER INFORMATION

Supplier MSDS date: 2008/06/30

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