



Comet Chemical Company Ltd.
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Material Safety Data Sheet

PERCHLOROETHYLENE

Revision Date: 2008/07/30

Section 1 : PRODUCT AND COMPANY IDENTIFICATION

Chemical family: Mixture.

Product uses: Cleaner.
Solvent.

Product name: Perchloroethylene

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
127-18-4	100	TETRACHLOROETHYLENE	25 PPM	2629 MG/KG RAT ORAL 6400 MG/KG MOUSE ORAL	34,200 MG/M3/8H RAT INHALATION 5200 PPM/4H MOUSE INHALATION 35,000 MG/M3/4H MOUSE INHALATION 4100 PPM/6H 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 eye damage.
Severe irritant.

Skin contact: May cause defatting.
May cause drying and irritation.

Skin absorption: May be absorbed in toxic amounts.

Inhalation: Irritant.
May cause nausea.
May cause drowsiness.
May cause respiratory failure.
Headaches, dizziness.

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

Effects of chronic exposure: May cause liver and kidney damage.
May cause heart arrhythmia.
Lethargy may be a sign/symptom of excessive exposure.
Prolonged or repeated overexposure may cause drying and cracking of the skin (dermatitis).
May cause depression.
May cause reduced fertility.

Sensitization to product: No

Carcinogenic effects: Tetrachloroethylene is a suspected carcinogen (IARC group 2A).

Reproductive effects: Effects have been reported in animals.

Teratogenicity: Effects have been reported in animals.

Mutagenicity: Effects have been reported in animals.

Synergistic materials: Smoking.
Ethyl (grain) alcohol.

Section 4 : FIRST AID MEASURES

Skin contact: Remove contaminated clothing.
Wash with mild soap and water.
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.
Keep at rest.

Section 5 : FIRE FIGHTING MEASURES

Flammability: Not flammable.

Conditions of flammability: Surrounding fire.

Extinguishing media: Use appropriate extinguishing media for surrounding fire.

Special procedures: Firefighters should wear adequate protective gear.
Self-contained breathing apparatus required.

Auto-ignition temperature (°C): Not available.

Flash point (°C), method: Not available.

Lower flammability limit (% vol): Not available.

Upper flammability limit (% vol): Not available.

Explosion Data

Sensitivity to static discharge: Not sensitive.

Sensitivity to mechanical impact: Not sensitive.

Hazardous combustion products: Carbon monoxide (CO).
Phosgene.
Chlorine (Cl₂).
Hydrogen chloride (HCl).
Corrosive gases.

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.

Section 7 : HANDLING AND STORAGE

Handling procedures and equipment: Avoid breathing vapors/mists.
Use adequate ventilation.
Wear personal protective equipment appropriate to task.
Wash thoroughly after handling.
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.

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:



Polyvinyl alcohol gloves.
Viton gloves.
Barricade gloves.
Responder gloves.
Trelchem gloves.

Respiratory/Type: None required under normal use.
If ventilation is inadequate.
Organic vapor cartridge respirator.

Eye/Type: 

Safety glasses with side-shields.



Chemical safety goggles.

Footwear/Type: Nitrile boots.
When splashing is possible.

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



Apron
Viton clothing.

Other/Type: Eye wash facility should be in close proximity.
Emergency shower should be in close proximity.

Ventilation requirements: Ventilate adequately.

Exposure limit of material: 25 ppm.

Section 9 : PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Liquid.

Appearance & odor: Colourless.
Clear
Mild pleasant odor.

Odor threshold (ppm): 50 ppm

Vapour pressure (mmHg): 14 / 1.9kPa @ 20°C

Vapour density (air=1): 5.8

Volatiles (%)

By volume: Not available.

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

Boiling point (°C): 121

Freezing point (°C): -22°C

pH: Not available.

Specific gravity @ 20 °C: 1.62

Solubility in water (%): 0.015 @ 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: Lithium (Li).
Barium.
Strong oxidizing agents.
Beryllium.

Hazardous decomposition products: See hazardous combustion products.

Section 11 : TOXICOLOGICAL INFORMATION

LD50 of product, species & route: 3200 mg/kg rabbit dermal.
2630 mg/kg rat oral.
8000 mg/kg mouse oral.

LC50 of product, species & route: 4600 ppm inhalation rat.
5200 ppm inhalation mouse.

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.
Incinerate only in an approved facility with flue gas scrubbing and monitoring.

Section 14 : TRANSPORT INFORMATION

TDG classification: TETRACHLOROETHYLENE
UN1897
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: 2008/07/30

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