



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

Material Safety Data Sheet

CALCIUM CHLORIDE (DIHYDRATE)

Revision Date: 2008/05/07

Section 1 : PRODUCT AND COMPANY IDENTIFICATION

Chemical family: Not available.

Product uses: Antifreeze.
Ice melter.
Flocculant in waste water.

Product name: Calcium 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
10035-04-8	77	CALCIUM CHLORIDE, DIHYDRATE	NOT AVAILABLE	NOT AVAILABLE	NOT AVAILABLE

Section 2A: ADDITIONAL INGREDIENT INFORMATION

Note: (supplier).
CAS# 10035-04-8: LD50 1000 mg/kg – rat oral.

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.
Irritant.

Skin contact: Low toxicity.

Skin absorption: Slightly toxic.

Inhalation: Dust may be irritating.
Absorption of fluid by dehydration (osmotically).

Ingestion: Low toxicity.

- Effects of chronic exposure:** May cause irritation.
- Sensitization to product:** No
- Carcinogenic effects:** Not listed as a carcinogen.
- Reproductive effects:** Reproductive effects reported in animals.
- Teratogenicity:** Not available.
- Mutagenicity:** Not available.
- 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:** Not flammable.
- Conditions of flammability:** Surrounding fire.
- Extinguishing media:** Use appropriate extinguishing media for surrounding fire.
- Special procedures:** Firefighters should wear adequate protective gear.
- Auto-ignition temperature (°C):** None
- Flash point (°C), method:** None
- 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:** None

Rate of burning: Not available.

Explosive power: Not available.

Section 6 : ACCIDENTAL RELEASE MEASURES

Leak/Spill: Ventilate area.
Wear appropriate protective equipment.
Do not flush to sewer.
Sweep up and shovel into suitable containers for disposal.

Section 7 : HANDLING AND STORAGE

Handling procedures and equipment: Keep away from heat, sparks, and open flame.
Material may become very slippery when wet.
Use adequate ventilation.
Wear personal protective equipment appropriate to task.
Avoid contact with skin, eyes and clothing.
Avoid generating or breathing dust.
Launder contaminated clothing prior to reuse.
Do not add to hot water.

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: None required with normal use.

Respiratory/Type: Not required.

Eye/Type:



Chemical safety goggles.

Footwear/Type: Safety shoes per local regulations.

Clothing/Type: No special requirements.

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.

Section 9 : PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Solid

Appearance & odor: Odourless.
White flakes.
Hygroscopic.
Pellets.
Deliquescent.

Odor threshold (ppm): Not available.

Vapour pressure (mmHg): None

Vapour density (air=1): Water vapour forms at 200°C.

Volatiles (%)

By volume: Not available.

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

Boiling point (°C): 1670°C

Freezing point (°C): (But loses water of hydration at 200°C).
176°C

pH: Slightly alkaline.
(35% solution).
8.0–9.0

Specific gravity @ 20 °C: 1.85

Solubility in water (%): (Dihydrate).
(also soluble in acetone, ethanol and acetic acid).
980 g/L (0°C)

Coefficient of water\oil dist.: Not available.

VOC: Not available.

Section 10 : STABILITY AND REACTIVITY
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Chemical stability: Stable under normal conditions.

Conditions of instability: Absorbs moisture from the air.

Hazardous polymerization: Will not occur.

Incompatible substances: Zinc (Zn).
Calcium oxides.
Galvanized metals.
Corrosive to stainless steel.
Furan–2–peroxycarboxylic acid.
Sulfur hexafluoride.
Vinyl methyl ether.
Boiling water.

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

Section 11 : TOXICOLOGICAL INFORMATION

LD50 of product, species & route: 1000 mg/kg – rat oral.
1950 mg/kg mouse oral.

LC50 of product, species & route: Not available.

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: Not regulated.

Special shipping information: See transportation information.

Section 15 : REGULATORY INFORMATION

WHMIS classification:

D2B



DSL status: CAS# 10035-04-8 does not appear on the DSL/NDSL.

Section 16 : OTHER INFORMATION

Supplier MSDS date: 2008/05/07

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