

### **MSDS - Calcium Chloride Flake**

Rev. January 2011

#### **Section 1. Product Information**

T.D.G. Classification:	Not regulated
UN Number	Not applicable
CAS #:	10035-04-8
Packing Group:	Not applicable
Product Name:	Flake Calcium Chloride, Powdered Calcium Chloride
WHMIS Classification:	This is not a controlled product
Chemical Formula:	CaCl2.2H2O
Chemical Family:	Not applicable
Product Use:	Delcer, dust control, mud drilling lubricant, freeze-proofing of ores and aggregates, thawing agent, concrete conditions
Available Packaging:	20kg, 40kg

Emergency Phone: (Canutec) 613-996-6666

Distributed by: Pestell Minerals & Ingredients, New Hamburg, ON Canada

### Section 2. Hazardous Ingredients

Hazardous Ingredients:	Not applicable
Percentage:	Not applicable
LD/50, Route, Specie	1000 mg/kg (Oral, Rat) 1940 mg/kg (Oral, Mouse)
LC/50, Route, Specie	Not applicable

## Section 3. Physical Data

Physical State	Flakes
Appearance and Odour:	Small white flakes, very hygroscopic
Odour Threshold:	Odourless
Specific Gravity:	Not applicable
Vapour Pressure:	Not applicable
Vapour Density:	Not applicable
Evaporation Rate:	Slow < 0.3 Fast > 3.0 Medium 0.3 - 3.0
Boiling Point:	Not applicable
Melting Point:	176°C
pH:	Neutral to slightly Alkaline

# **Section 4. Fire or Explosion Hazards**

Hazardous Conditions:	Reacts violently with bromine triflouride (BrF3), or a mixture of boron trioxide and calcium oxide (B2O3+CaO). Sulfuric acid yields hydrogen chloride gas, which is corrosive, irritating and reactive. Water-reactive materials such as sodium causes an exothermic reaction. Methyl vinyl ether starts runaway polymerization reaction. Zinc as in galvanized iron yields hydrogen gas with solutions, which may explode under these conditions.
Fire Extinguishing Procedures:	Use extinguishing media appropriate for surrounding fire. For fire fighting, wear NIOSH approved self contained breathing apparatus.
Flash Point:	Not applicable
Upper Flammable Limit:	Not applicable
Lower Flammable Limit:	Not applicable
Auto-Ignition Temperature:	Not applicable
Hazardous Combustion Products:	Not applicable
Sensitivity to Static Discharge:	Not applicable
Sensitivity to Mechanical Impact:	Not applicable
Hazardous Decomposition Products:	Not applicable

## **Section 5. Reactivity Data**

Chemical Stability:	Stable under normal conditions
Hazardous Polymerization:	Will not occur
Conditions of Reactivity:	Not applicable
Hazardous Decomposition:	Chloride Fumes are given off at temperatures above 1600°C

## **Section 6. Toxicological Properties**

Route of Entry:	Not applicable
Effects of Acute Exposure:	Moderately toxic LD50 (oral, rat); 1000 mg/kg
Effects of Chronic Exposure:	Not applicable
Exposure Limits:	OML TWAEV for nuisance particulate 10 mg/m3
Irritancy of Product:	Not applicable
Sensitization of Product:	Not applicable
Carcinogenicity of Product:	Not applicable
Reproductive Toxicity:	Not applicable
Teratogenicity:	Not applicable
Mutagenicity:	Not applicable
Synergistic Effects:	Not applicable

### **Section 7. Preventive Measures**

Respiratory Protection:	For dusty/misty conditions, wear NIOSH approved dust/mist respirator
Eyes and Face:	For dusty/misty conditions, or handling solutions if there is probability of eye contact, wear chemical safety goggles and hard hat. Under these conditions do not wear contact lenses.
Hands, Arms, Body:	As a minimum wear long sleeved shirt, trousers, rubber boots and gloves for routine product use. Cotton gloves permitted for dry product, impervious gloves when using solutions.
Specific Engineering Controls:	Provide general and/or local exhaust ventilation to maintain dust or fume levels below exposure limits. Eye wash facility should be provided in storage and general work area.
Spill/Leak Procedures:	Shovel up dry chemical and place in metal drum with cover. Cautiously spray residue with plenty of water. Avoid waterways.
Storage Needs:	Cool, dry area. Prolonged storage may cause product to cake and become wet from atmospheric moisture.
Handling:	Avoid contact with eyes, skin or clothing. Avoid breathing dust.

#### **Section 8. First Aid Measures**

Eye Contact:	Immediately flush eyes with running water for at least 15 minutes. Get medical attention
Skin Contact:	Remove contaminated clothing. Wash with soap and water. Seek attention if irritation persists.
Ingestion:	If conscious, immediately give 2-4 glasses of water. Induce vomiting under medical supervision.
Inhalation:	Promptly remove to fresh air. Get medical attention.

#### Disclaimer

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