

# Kissner Salts & Chemicals

## M.S.D.S

## Calcium Chloride Flakes

### Section 1: Product Information

T.D.G Classification	Not regulated
UN Number	Not available
CAS #	10035-04-08
Packing Group	Not available
Product Name	Flake Calcium Chloride Powdered Calcium Chloride
WHIMIS Classification	This is not a controlled product
Chemical Formula	CaCl <sub>2</sub> · 2H <sub>2</sub> O
Chemical Family	Not available
Product Use	Declar, dust control, mud drilling lubricant, freeze-proofing of ores and aggregates, thawing agent, concrete conditioner
Supplier	Kissner Salts & Chemicals 40 Alpine Court Kitchener , On N2E 2M7 (519) 743-3651
Available Packaging	20Kg, 40Kg
Prepared by	P.L. Sullivan / gh

### Section 2: Hazardous Ingredients

Hazardous Ingredients	No hazardous substances present in reportable amounts
Percentage	Not available
LD/50, Route, Specie	100mg/kg (oral, rat) 1940 mg/kg (oral, mouse)
LC/50 Route, Specie	Not available

### Section 3: Physical Data

Physical State	Flakes
Appearance and odour	Small white flakes, very hygroscopic
Odour Threshold	Odourless
Vapour pressure	Not available
Specific Gravity	Not available
Vapour density	Not available
Evaporation rate (either = 1.0)	Slow <0.3 fast> 3.0 medium – 3.0
Boiling point	Not available
Melting Point	176 °C
Coefficient of water / oil distribution	Not available
pH	Neutral slightly alkaline

### Section 4: Fire and Explosion Data

Hazardous Conditions	Reacts violently with bromine trifluoride (BrF <sub>3</sub> ), or a mixture of boron trioxide and calcium oxide (B <sub>2</sub> O <sub>3</sub> + 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 media	Not available
Flash point	Not available
Upper flammable limit	Not available
Lower flammable limit	Not available
Auto-ignition temperature	Not available
Sensitivity to mechanical impact	Not available
Sensitivity to static discharge	Not available
Hazardous combustion products	Not available

### Section 5: Reactivity Data

Chemical Stability	Stable under normal conditions
Hazardous polymerization	Will not occur
Conditions of reactivity	Not available
Hazardous decomposition	Chloride fumes (C1) are given off at temperatures above 1600°C

## Section 6: Toxicological Properties

Route of entry into the body	Not available
Effects of acute exposure to product	Moderately toxic LD50 (oral, rat); 1000 mg/kg
Effects of chronic exposure to product	Not available
Exposure limits	Ontario Ministry of Labour Time-Weighted average Exposure Value (TWAEV) for Nuisance Particulate 10 mg/kg
Irritancy of product	Not available
Sensitization of product	Not available
Carcinogenicity of product	Not available
Reproductive toxicity	Not available
Teratogenicity	Not available
Mutagenicity	Not available
Synergistic effects	Not available

## Section 7: Preventive Measures

Personal Protective Equipment Required	
Respiratory Protection	For dusty/misty conditions, wear NIOSH-approved dust / mist respirators
Eyes and Face	For dusty/misty conditions, or handling solutions if there is probability of eye contact, wear chemical safety goggles and hardhat. Under these conditions do not wear contact lenses.
Hands, arms, and body	As a minimum, wear long-sleeve shirt, trousers, rubber boots and gloves for routine product use. Cotton gloves permitted for dry product, impervious gloves when using solutions.
Specific Engineering controls required	Provide general and / or local exhaust ventilation to maintain dust or fume levels below exposure limits. Eye wash facilities 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.
Waste disposal	Consistent with requirements of local waste disposal authorities
Storage needs	Cool, dry area. Prolonged storage may cause product to cake and become wet from atmospheric moisture
Handling procedures and equipment	Avoid contact with eyes, skin or clothing. Avoid breathing dust.

## Section 8: First Aid Measures

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

## Section 9: Preparation Information

Emergency Phone No	(613) 996-6666 (Canutec)
Date	Revised September 1999

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September 1999