

Kissner Salts & Chemicals

M.S.D.S.

CALCIUM CHLORIDE FLAKE POWDERED CALCIUM CHLORIDE

SECTION 1: PRODUCT INFORMATION

T.D.G. Classification	Not regulated
UN Number	N/A
CAS #	10035-04-8
Packing Group	N/A
Product Name	Flake Calcium Chloride, Powdered Calcium Chloride
WHIMIS Classification	This is not a controlled product
Chemical Formula	CaCl ₂ ·2H ₂ O
Chemical Family	N/A
Product Use	De-Icer, dust control, mud drilling lubricant, freeze-proofing of ores and aggregates, thawing agent, concrete conditioner
Available Packaging	20kg, 40kg
Supplier	Kissner Salts & Chemicals, 32 Cherry Blossom Rd Cambridge, Ontario N3H 4R7 (519) 650-9998

SECTION 2: HAZARDOUS INGREDIENTS

Hazardous Ingredients	N/A
Percentage	N/A
LD/50, Route, Specie	1000 mg/kg (Oral, Rat) 1940 mg/kg (Oral, Mouse)
LC/50, Route, Specie	N/A

SECTION 3: PHYSICAL DATA

Physical State	Flakes
Appearance & Odour	Small white flakes, very hygroscopic
Odour Threshold	Odourless
Specific Gravity	N/A
Vapour Pressure	N/A
Vapour Density	N/A
Evaporation Rate (Ether = 1.0)	Slow <0.3 Fast >3.0 Medium 0.3 - 3.0
Boiling Point	N/A
Melting Point	176°C
pH	Neutral to slightly Alkaline
Coefficient of Water/Oil Distribution	N/A

SECTION 4: FIRE AND EXPLOSION DATA

Hazardous Conditions	Reacts violently with bromine trifluoride (BrF ₃), or a mixture of boron trioxide and calcium oxide (B ₂ O ₃ +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	N/A
Upper Flammable Limit	N/A
Lower Flammable Limit	N/A
Auto-ignition Temperature	N/A
Hazardous Combustion Products	N/A
Sensitivity to mechanical impact	N/A
Sensitivity to Static Discharge	N/A
Hazardous Combustion products	N/A

SECTION 5: REACTIVITY DATA

Chemical Stability	Stable under normal conditions
Hazardous Polymerization	Will not occur
Conditions of Reactivity	N/A
Hazardous Decomposition	Chloride Fumes (Cl ⁻) are given off at temperatures above 1600°C.

SECTION 6: TOXICOLOGICAL PROPERTIES

Route of entry into the body	N/A
Effects of acute exposure to product	Moderately toxic LD50 (oral, rat); 1000 mg/kg
Effects of chronic exposure to product	N/A
Exposure limits	Ontario Ministry of Labour Time-Weighted Average Exposure Value (TWAEV) for Nuisance Particulate 10 mg/m ³

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Irritancy of product	N/A
Sensitization of product.....	N/A
Carcinogenicity of product	N/A
Reproductive toxicity	N/A
Teratogenicity.....	N/A
Mutagenicity	N/A
Synergistic effects	N/A

SECTION 7: PREVENTIVE MEASURES

Personal Protective Equipment Required

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, 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 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.
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

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.

SECTION 9: PREPARATION INFORMATION

Emergency Phone No.	(613) 996-6666 (Canutec)
Date	January 2005

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