



THE KISSNER GROUP
 32 Cherry Blossom Road
 Cambridge, Ontario N3H 4R7
 1 (800) 434-8248 • (519) 279-4860
 Fax: (877) 434-8250



SAFETY DATA SHEET

Section 1: Product Identification

Product Name Calcium Chloride Pellets
Identified Uses Ice Melting
Supplier's Details The Kissner Group
 32 Cherry Blossom Road, Cambridge, ON Canada N3H 4R7
Phone Number 1 (800) 434-8248
Emergency Contact (24 Hrs) CANUTEC (613) 996-6666

Section 2: Hazard Identification

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)

NFPA Hazard Rating (NFPA): (Scale 0-4)
 HEALTH: 1 FLAMMABILITY: 0 REACTIVITY: 0 PERSONAL PROTECTION: E
 HMIS Hazard Rating (HMIS): (Scale 0-4)
 HEALTH: 2 FLAMMABILITY: 0 REACTIVITY: 0

EMERGENCY OVERVIEW:

APPEARANCE: White to off-white solid pellets
ODOR: None / Odorless
REACTIVITY: Reacts with water to create heat
MAJOR HEALTH HAZARDS: CAUSES EYE AND SKIN IRRITATION. HARMFUL IF SWALLOWED.
PHYSICAL HAZARDS Heat is generated when mixed with water or aqueous acid solutions
PRECAUTIONARY STATEMENTS Wash thoroughly after handling.
GHS Signal Word: **WARNING**

GHS Symbol:  (Exclamation mark)

Classification (GHS)

GHS: CONTACT HAZARD - SKIN:	Category 2 - Causes skin irritation
GHS: CONTACT HAZARD - EYE:	Category 2B - Causes eye irritation
GHS: ACUTE TOXICITY - INHALATION:	No data available. Not classified.
GHS: ACUTE TOXICITY - ORAL:	Category 4 - Harmful if swallowed
GHS: ACUTE TOXICITY - DERMAL:	Not classified as acutely toxic for dermal exposure
GHS: CARCINOGENICITY:	Not classified as a carcinogen per GHS criteria. This product is not classified as a carcinogen by NTP, IARC, or OSHA.



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GHS HAZARD STATEMENTS:

GHS - Health Hazard Statement(s)	Causes skin irritation Causes eye irritation Harmful if swallowed
GHS - Precautionary Statement(s) - Prevention	Wear eye and face protection Wear protective gloves Wash thoroughly after handling Do not eat, drink or smoke when using this product
GHS - Precautionary Statement(s) - Response	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing If eye irritation persists: Get medical advice/attention IF ON SKIN: Wash with plenty of water Take off contaminated clothing and wash it before reuse If skin irritation occurs: Get medical advice/attention IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell Rinse mouth Specific treatment (see First Aid information on product label and/or Section 4 of the SDS)
GHS - Precautionary Statement(s) - Storage	There are no Precautionary-Storage phrases assigned
GHS - Precautionary Statement(s) - Disposal	Dispose of contents and container in accordance with applicable local, regional, national, and/or international regulations
Hazards Not Otherwise Classified (HNOC)	None Known

See Section 11: TOXICOLOGICAL INFORMATION

Section 3: Composition/Information On Ingredients

MOLECULAR FORMULA: CaCl₂

Ingredients	Percentage	CAS. NO.
Calcium Chloride	< = 100%	10043-52-4

Section 4: First-Aid Measures

EYES:	Irrigate with flowing water immediately and continuously for 15 minutes. Consult medical personnel.
SKIN:	Wash off in flowing water or shower.
INGESTION:	If swallowed, induce vomiting immediately as directed by medical personnel. Call a physician. (Never give anything by mouth or attempt to induce vomiting in an unconscious person.)
INHALATION:	Remove to fresh air if effects occur. Consult a physician.



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NOTE TO PHYSICIAN:

If burn is present, treat as any thermal burn, after decontamination. No specific antidote. Supportive care. Treatment based on judgment of the physician in response to reaction of the patient.

Section 5: Fire-Fighting Measures

FIRE & EXPLOSION HAZARD:	Negligible fire hazard when exposed to heat or flame.
EXTINGUISHING MEDIA:	This material does not burn. If exposed to fire from another source, use suitable extinguishing agent for that fire.
FIRE FIGHTING PROCEDURES:	Keep people away. Isolate fire and deny unnecessary entry. This material does not burn. Fight fire for other material that is burning. Water should be applied in large quantities as a fine spray.
SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS:	Wear positive-pressure, self-containing breathing apparatus (SCBA) and protective firefighting clothing (includes firefighting helmet, coat, trousers, boots and gloves). Avoid contact with this material during firefighting operations. If contact is likely, change to full chemical resistant firefighting clothing with self-containing breathing apparatus and fight fire from a remote location.
Unusual Fire & Explosion Hazards:	Heat is generated when product mixes with water.
Hazardous Combustion Products:	Thermal decomposition products may include toxic and corrosive fumes of chlorine and hydrogen chloride. Product generates heat upon additions of water, with possible spattering. Product may react with some metals (Aluminum, Zinc, Tin, etc.) to release flammable hydrogen gas.

Section 6: Accidental Release Measures

Action to take for spills/leaks: Losses incidental to correct application of this product in its intended uses are not expected to be harmful to the environment. Wear appropriate safety apparel during clean-up. See Section 8. Avoid entry of large amount of product into sewers, natural waters, and drinking water sources. Due to possible harmful effects, avoid contact with vegetation, animals and fish life. Recover quickly into suitable, dry sealable containers if reusing. Small quantities may be flushed away with plenty of water. Walking surfaces may remain wet longer due to moisture being held by spilled product- avoid by thoroughly water washing surfaces.

Section 7: Handling And Storage

Comply with federal, state, and local laws, regulations and procedures when storing this product. Store in a tightly closed container. Store away from incompatible materials. Do not store in attic, upper floors or any area where leaking of contents could cause damage.

SPECIAL PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:



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Avoid eye and prolonged skin contact. ALWAYS USE COOL WATER (TEMPERATURE LESS THAN 80°F, 27°C). WHEN DISSOLVING CALCIUM CHLORIDE. HEAT DEVELOPED BY SOLUTION IS VERY HIGH DURING DISSOLVING AND MIXING. When exposed to the atmosphere, calcium chloride will pick up water and form a solution. Leather clothing and shoes will be damaged by calcium chloride.

Section 8: Exposure Controls/Personal Protection

EXPOSURE GUIDELINES:	There are no occupational exposure limits established by OSHA, ACGIH or NIOSH.
VENTILATION:	Provide general and/or local exhaust ventilation to control airborne levels below the exposure guidelines.
RESPIRATORY PROTECTION:	Atmospheric levels should be maintained below the exposure guidelines. When respiratory protection is required for certain operations use an approved air-purifying respirator. In dusty atmospheres, use an approved dust respirator.
SKIN PROTECTION:	For brief contact, no precautions other than clean body-covering clothing should be needed. Use protective clothing impervious to this material. Selection of specific items such as gloves, boots, aprons, or full-body suit will depend on operation. If skin comes in contact with contaminated clothing, remove the clothing immediately, wash skin area with soap and water, and launder clothing before reuse.
EYE PROTECTION:	Safety glasses should be sufficient for most operations; however, for dusty operations or when handling solutions of the material, wear chemical goggles. Eye wash fountain should be located in immediate work area.



Section 9: Physical And Chemical Properties

Appearance	White solid Pellets
Odor	Odorless
Vapour Pressure (mm Hg at 20°C)	Not applicable
Vapour Density (Air = 1.0)	Not applicable
Bulk Density	58 - 66 lb/ft ³
Solubility in Water	Water Soluble
Specific Gravity (gm/cc, Water = 1.0)	Not applicable
% Volatile by Volume	Non-volatile
Boiling Range (Deg. Celsius)	Not applicable
Melting Point	772 °C (1,422 °F)
Coefficient of Water/Oil Distribution	Not applicable
pH	Not applicable
Hygroscopic	Yes



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Auto-ignition Temperature

Not applicable

Flash point

Not applicable

Section 10: Stability And Reactivity

Chemical Stability:	Stable under normal conditions. Hygroscopic
Reactivity:	Hygroscopic. Liberates large amounts of heat when dissolving in water or aqueous acids.
Possibility of Hazardous Reactions:	Not available
Conditions to Avoid :	Avoid moisture.
Incompatible Materials:	Heat is generated when mixed with water or aqueous acids. Spattering and boiling can occur. Avoid contact with: bromide trifluoride, 2-furan percarboxylic acid because calcium chloride is incompatible with those substances. Contact with zinc forms flammable hydrogen gas, which can be explosive. Catalyzes exothermic polymerization of methyl vinyl ether. Attacks metals in the presence of moisture, and may release flammable hydrogen gas. Reaction of bromide impurity with oxidizing materials may generate trace levels of impurities such as bromates.
Hazardous Decomposition Products	Formed under fire conditions: hydrogen chloride gas, calcium oxide

Section 11: Toxicological Information

TOXICITY DATA (Calcium Chloride)

LD50 Oral	1000 mg/kg (Rat)
LD50 Dermal	2630 mg/kg (Rat)

SIGNS AND SYMPTOM OF EXPOSURE:

Solution and or solids may be visible on the skin and or eyes. Localized redness, warmth, and irritation consistent with mechanism of injury: abrasion, burn, hypertonic solution.

MUTAGENIC DATA: Not classified as a mutagen per GHS criteria.

DEVELOPMENTAL TOXICITY

Not classified as a developmental or reproductive toxin per GHS criteria. For the major component(s): Did not cause birth defects or any other fetal effects in laboratory animals.

Section 12: Ecological Information

Calcium Chloride (10043-52-4)	
LC50 Fish 1	10650 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])
EC50 Daphnia 1	2400 mg/l (Exposure time: 48 h - Species: Daphnia magna)
Mobility in Soil	Calcium chloride is not expected to be absorbed in soil due to its dissociation properties and high water solubility. It is expected to dissociate into calcium and chloride free ions or it may form stable inorganic or organic salts with other counter



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	ions, leading to different fates between calcium and chloride ions in soil and water components. Calcium ions may bind to soil particulate or may form stable inorganic salts with sulfate and carbonate ions. The chloride ion is mobile in soil and eventually drains into surface water because it is readily dissolved in water.
BIODEGRADATION	This material is inorganic and not subject to biodegradation.

Section 13: Disposal Considerations

Waste Disposal Recommendations Dispose of waste material in accordance with all local, regional, national, provincial, territorial and international regulations.

Section 14: Transport Information

In Accordance with DOT	Not regulated for transport
In Accordance with IMDG	Not regulated for transport
In Accordance with IATA	Not regulated for transport
In Accordance with TDG	Not regulated for transport

Section 15: Regulatory Information

U.S. Regulations

OSHA REGULATORY STATUS:	This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)
SARA 313 INFORMATION:	To the best of our knowledge, this product does not contain chemicals at levels which require reporting under this statute.
SARA EHS Chemical (40 CFR 355.30)	Not regulated
EPCRA SECTIONS 311/312 HAZARD CATEGORIES (40 CFR 370.10):	Acute Health Hazard
CERCLA SECTIONS 102a/103 HAZARDOUS SUBSTANCES (40 CFR 302.4):	Not regulated.
CALIFORNIA PROPOSITION 65:	This product is not listed, but it may contain impurities/trace elements known to the State of California to cause cancer or reproductive toxicity as listed under Proposition 65 State Drinking Water and Toxic Enforcement Act. WARNING: This product (when used in aqueous formulations with a chemical oxidizer such as ozone) may react to form calcium bromate, a chemical known to the State of California to cause cancer.



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Canadian Regulations

WHMIS	D2B - Poisonous and Infectious Material; Materials causing other toxic effects - Toxic material
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This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations

Section 16: Other Information

Information contained on these sheets needs to be made available to your workers according to the OSHA Hazard Communication Standard 29CFR 1910.1200 and the Workplace Hazardous Materials Information System (WHMIS).

Effective Date: June 8, 2015
Version: 1
Contact: sds@kissner.com

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