**SAFETY DATA SHEET (S.D.S)**

Produced by Kissner, Inc.
expressly for Snow Joe®, LLC

Form No. SJ-MELT-S.D.S-R2

FAST ACTING • INSTANT HEAT • SAFER ON SIDEWALKS*

*when used as directed

# CALCIUM CHLORIDE CRYSTALS

Enhanced with Extenders

## Section 1: Product Information

| | | |
|---|---|---|
| T.D.G. Classification | ---------- | Not regulated |
| Product Identification Number | ---------- | Not available |
| CAS # | ---------- | See “Hazardous Ingredients” |
| Packing Group | ---------- | Not available |
| Product Name | ---------- | Calcium Chloride Crystals |
| WHIMIS Classification | ---------- | Class D, Div.2, Sub. B |
| Chemical Formula | ---------- | CaC12 2H2O |
| Chemical Family | ---------- | Calcium Chloride |
| Product Use | ---------- | Ice melting |
| Available Packaging | ---------- | 50 lb Bag, 50 lb Box, 50 lb Pail, and 2000 lb Super Sac |
| Supplier | ---------- | Kissner Group 32 Cherry Blossom Rd Cambridge, Ontario N3H 4R7 (519) 279-4860 |

## Section 2: Hazardous Ingredients

| **Hazardous Ingredients** | | **ACGIH/TVL** |
|---|---|---|
| Calcium Chloride | ---------- | CAS# 10043-52-4 |

No other hazardous substances present in reportable amounts.

## Section 3: Physical Data

| | | |
|---|---|---|
| Physical State | ---------- | Solid, pellets |
| Appearance & Odour | ---------- | White pellets, no odour. |
| Odour Threshold | ---------- | Not applicable |
| Specific Gravity (Water=1) | ---------- | 2.2 |
| Vapour Pressure (MMHG) | ---------- | (mm Hg) 0.009 @ 20 Deg C. |
| Vapour Density (Air=1) | ---------- | Not applicable |
| Evaporation Rate | ---------- | Not applicable |
| Boiling Point | ---------- | 338 F 198 C |
| Freezing Point | ---------- | -25 ºF |
| pH | ---------- | Not available |
| Coefficient of Water/Oil Distribution | ---------- | Not applicable |

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**SAVE THESE S.D.S.**

## Section 4: Fire and Explosion Data

| | | |
|---|---|---|
| Physical State | ---------- | Solid, pellets |
| Hazardous Conditions | ---------- | See “Conditions of Reactivity”. Section five. |
| Fire Extinguishing Procedures | ---------- | Not applicable |
| Flash Point | ---------- | Not applicable |
| Upper Flammable Limit | ---------- | Not applicable |
| Lower Flammable Limit | ---------- | Not applicable |
| Auto-ignition Temperature | ---------- | Not applicable |
| Hazardous Combustion Products | ---------- | None |

## Section 5: Reactivity Data

| | | |
|---|---|---|
| Sensitivity to mechanical impact | ---------- | No |
| Sensitivity to Static Discharge | ---------- | No |
| Chemical Stability | ---------- | Decomposes at 350 F |
| Hazardous Polymerization | ---------- | Not available |
| Conditions of Reactivity | ---------- | Calcium chloride will: Corrode most metals exposed to air; attack aluminium (and its alloys) and yellow brass; react with sulphuric acid to form hydrogen chloride which is corrosive, irritating and reactive; give an exothermic reaction with water-reactive materials such as sodium; result in a runaway polymerisation reaction with methyl vinyl ether (Bretherick 1979); and, in a solution form react with zinc (galvanizing) to yield hydrogen gas which is explosive. |
| Hazardous Decomposition | ---------- | None |

## Section 6: Toxicological Properties

| | | |
|---|---|---|
| Route of entry into the body | ---------- | EYES, SKIN, INGESTION, INHALATION |
| Effects of acute exposure to product | ---------- | EYES: May cause moderate to severe eye irritation with corneal injury, which may be slow to heal, when dissolving. The heat produced may cause more intense effects as well as thermal burns.SKIN: Not likely to cause significant skin irritation.<br>INHALATION: Dust can be irritating.<br>INGESTION: Single dose oral toxicity is low. Ingestion may cause gastrointestinal irritation or ulceration. |
| Effects of chronic exposure to product | ---------- | SKIN: may cause skin irritation, even burn. May cause more severe response if skin is damp and/or abraded, or if material is confined to skin. When dissolving, the heat produced may cause more intense effects as well as thermal burns. EYES, INHALATION and INGESTION: see “Acute Effects” above. |
| Exposure limits | ---------- | Not applicable |
| Irritancy of product | ---------- | See above |
| Sensitization of product | ---------- | In susceptible individuals. |
| Carcinogenicity of product | ---------- | Not indicated |
| Reproductive toxicity | ---------- | Not available |
| Teratogenicity | ---------- | Not available |
| Mutagenicity | ---------- | Not available |
| Synergistic effects | ---------- | Not available |
| LD/50 | ---------- | 900-2100 mg/kg oral, rat |
| LC/50 | ---------- | Not indicated |

## Section 7: Preventive Measures

| | | |
|---|---|---|
| Personal Protective Equipment required RESPIRATORY | ---------- | Where exposure to dusts from this product may exceed the applicable exposure limits a NSHA-NIOSH approved respirator for the dust should be used.<br>EYE PROTECTION: For dusty conditions, wear chemical safety goggles and hat. Under these conditions do not wear contact lenses, keep goggles clean.<br>GLOVES: As a minimum, wear long sleeve shirt and trousers, boots and gloves for routine product use. Remove promptly any contaminated clothing. Wear safety boots. |
| Specific Engineering controls required | ---------- | Local exhaust ventilation. |
| Spill/Leak Procedures | ---------- | Losses incidental to correct application of this product in its intended used are not expected to be harmful to the environment. Wear appropriate safety apparel during clean up> avoid entry of large amounts 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 silled product; avoid by thoroughly water washing surfaces. |
| Waste Disposal | ---------- | Dispose of waste in accordance with provincial, local, and federal regulations. |
| Handling, Storage & Shipping Needs | ---------- | Avoid skin and eye contact. Avoid breathing dust. Remove contaminated clothing before reuse. Maintain a good personal hygiene. |
| Special shipping information | ---------- | Not applicable |

## Section 8: First Aid Measures

| | | |
|---|---|---|
| **EYE CONTACT** | ---------- | Flush with copious amounts of water for 15 minutes. If irritation persists consult a physician |
| **SKIN CONTACT** | ---------- | Remove contaminated clothing. Wash affected area with water and soap. Seek medical attention if irritation occurs or persists. |
| **INGESTION** | ---------- | If swallowed, seek medical attention. Do not induce vomiting unless directed to do so by a medical professional. |
| **INHALATION** | ---------- | Remove to fresh air. |

## Section 9: Preparation Information

| | | |
|---|---|---|
| Emergency Phone No | ---------- | (613) 996-6666 (Canutec) |
| Date | ---------- | September 2014 |

The information is, to the best of our knowledge and belief, accurate and reliable as of the date compiled. However, no representation, warranty or guarantee is made to its accuracy, reliability or completeness. It is the user's responsibility to review this information, satisfy themselves as to its suitability and completeness and pass on the information to its employees or customers. Kissner Salt & Chemicals does not accept responsibility for any loss or damage which may occur from the use of this information.




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