

## Kissner Group

M.S.D.S.

Lava Melt - Ice Melt

**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 ..... Lava Melt – Ice Melt Pellets  
 WHIMIS Classification ..... Class D, Div.2, Sub. B  
 Chemical Formula ..... CaCl<sub>2</sub> 2H<sub>2</sub>O  
 Product Use ..... Ice melting  
 Available Packaging ..... 50 lb bag, 50 lb box, 40 lb pail, 2000 lb sac  
 Supplier ..... Kissner Group 32 Cherry Blossom Rd Cambridge, Ontario N3H 4R7  
 ..... (519) 279-4860  
 Prepared by ..... Jeff Browes

**SECTION 2: HAZARDOUS INGREDIENTS**

Hazardous Ingredients ..... Contains Calcium Chloride Pellet. No other hazardous substances  
 present in reportable amounts  
 Percentage ..... Not applicable  
 LD/50, Route, Specie ..... Not applicable  
 LC/50, Route, Specie ..... Not applicable

**SECTION 3: PHYSICAL DATA**

Physical State ..... Solid, pellets, crystals  
 Appearance & Odour ..... Orange 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 ..... -31° F  
 pH ..... 10 (1 % solution @ 20 degrees C)  
 Coefficient of Water/Oil Distribution... Not applicable

**SECTION 4: FIRE AND EXPLOSION DATA**

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  
 Sensitivity to mechanical impact ..... No  
 Sensitivity to Static Discharge ..... No

**SECTION 5: REACTIVITY DATA**

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

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**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. INHALATION: Dust can be irritating. 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. EYE PROTECTION: For dusty conditions, wear chemical safety goggles and hat. Under these conditions do not wear contact lenses, keep goggles clean. 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 use 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**

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

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**SECTION 9: PREPARATION INFORMATION**

Prepared by.....J Browes  
Emergency Phone No. ....(613) 996-6666 (Canutec)  
Date.....June 2010

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