



MATERIAL SAFETY DATA SHEET

N/A = Not Applicable

(Prepared According to 29 CFR 1910.1200)

Effective Date 10/2/99

Section 1 - PRODUCT IDENTIFICATION

Product Name: MELTDOWN
 Generic Name: Ice Melt
 Suppliers Name: NORTHLAND CHEMICAL CORP.
 Suppliers Address: 11380 250th Street East Lakeville, MN 55044

Chemical Family: .N/A
 Formula:N/A
 Phone:952-469-1155
 Emergency:800-255-3924

NPCA Hazardous Materials Identification

Health	2
Flammability	0
Reactivity	0
Maximum Personal Protection	B

Section 2 - INGREDIENTS

CHEMICAL NAME	CAS NO.	WT.%	PEL	TWA-TLV	STEL-TLV C	CARCINOGEN
Calcium Chloride.....	010043-52-4.....	90-97%				
Sodium Chloride.....	007647-14-5.....	1-2%				
Potassium Chloride.....	007447-40-7.....	2-3%				
Strontium Chloride.....	010476-85-4.....	0-1%				
Water.....	007732-18-5.....	0-1%				

Section 3 - PHYSICAL DATA

Boiling Range: >1500°F, >815°C
 Vapor Pressure: <0.005mmHg @ 20°C
 % Volatile:
 Solubility in Water: 100%
 Physical Description: White to off-white solid pellets.

Specific Gravity: 2.2
 Vapor Density: N/A
 pH: N/A
 Evaporation Rate:

Section 4 - FIRE AND EXPLOSION DATA

EXTINGUISHING MEDIA: This material does not burn. If exposed to fire from another source, use suitable extinguishing agent for that fire.

FIRE FIGHTING INSTRUCTIONS: Keep people away. Isolate fire area and deny unnecessary entry.

PROTECTIVE EQUIPMENT FOR FIRE FIGHTERS: Wear positive pressure self-contained breathing apparatus (SCBA) and full protective fire fighting clothing. (Includes fire fighting helmet, coat, pants, boots and gloves.)

Section 5 - REACTIVITY DATA

Stability: Stable
 Incompatibility (Materials to Avoid): None known.
 Hazardous Decomposition Products: None known.

Hazardous Polymerization: Will not occur.
 pH: N/A

Section 6 - STORAGE AND HANDLING INFORMATION

Precautions to be Taken in Handling and Storage:
 Heat developed during diluting or dissolving is very high. Use cool water when diluting or dissolving in temperatures less than 80°F 27°C
 Keep containers tightly closed when not in use. Store in a dry place. Protect from atmospheric moisture.

Section 7 - HEALTH HAZARDS AND FIRST AID

Effects of Overexposure:
 Skin:Moderate skin irritant. Prolonged or repeated contact may cause severe skin irritation or chemical burns.
 Eyes:Moderate eye irritant. Dusts may cause severe irritation with corneal injury. When dissolving, heat produced may cause more intense effects as well as thermal burns.
 Inhalation:Vapors are unlikely due to physical properties. Dust may cause irritation to upper respiratory tract.
 Ingestion:Small amounts swallowed incidental to normal handling operations are not likely to cause injury. Swallowing amounts larger may cause gastrointestinal irritation or ulceration.

Primary Route of Entry:

First Aid Procedures:
 Skin:Wash off in flowing water or shower.
 Eyes:Irrigate with flowing water immediately and continuously for 15 minutes. Consult medical personnel.
 Inhalation:Remove to fresh air if effects occur. Consult a physician.
 Ingestion:If swallowed, seek medical attention. Do not induce vomiting unless directed to do so by medical personnel.

Section 8 - SPECIAL PROTECTION INFORMATION

Respiratory Protection: Use approved dust respirator in dusty atmospheres.
Protective Gloves: No protection necessary for brief exposure.
Other Protective Equipment: Avoid using leather clothing. Calcium Chloride will damage leather.

Ventilation: Good general ventilation should be sufficient for most conditions. Local exhaust ventilation may be necessary for some operations.
Eye Protection: Use safety glasses. For dusty operations, or when handling solutions of the material, wear chemical goggles.

Section 9 - SPILL OR LEAK PROCEDURES

Steps to be Taken in Case Material is Released or Spilled:
 Wear protective equipment, including chemical resistant boots, gloves, aprons, chemical goggles, and respiratory protection. Sweep or scoop up and remove. Dispose of according to local, state, and federal regulations.

Waste Disposal Method:
 Any method in accordance with applicable laws.