

MATERIAL SAFETY DATA SHEET

HAZARD RATING

**EMERGENCY MEDICAL
TELEPHONE NUMBER**
1-800-228-5635 ext. 111

0=Fire
0=Health

0=Reactivity
=Special

4=Extreme
3=High
2=Moderate
1=Slight
0=Insignificant

N/A=Not Applicable N.D.=No Data N.E.=Not Established

SECTION I-IDENTITY AND MANUFACTURER'S INFORMATION

PRO-LINK
510 Chapman Street
Canton, MA 02021
Telephone Number 781-828-9550
Product Name: Pro-Link Ice Melter
Prepared by Regulatory Affairs Department - July 1994

SECTION II-HAZARDOUS INGREDIENTS/IDENTITY INFORMATION:

	N/A=Not Applicable	N/E=Not Est ablished				
Hazardous Components:	Cas #	osha pel	acgih	other limits	% optional	
Calciumchloride	10043-52-4	N/E	N/E	N/E	N/E	N/E
Sodium chloride	07647-14-5	N/E	N/E	N/E	N/E	N/E

No toxicological data is available on this specific mixture; rather the health effects stated below are based on information that is available on the calcium chloride component.

SECTION III-PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point: 175°C for CaCl₂
1413°C for NaCl
Vapor Pressure: 0.37 kPa (40°C) for CaCl₂
1.0 mm Hg(865°C) for NaCl
Vapor Density (AIR=1): N/A
Solubility in Water: 97.7 g/100 ML @ 0°C
1g/2.8 ml @ 25°C
Appearance and Odor: solid, white
to faint pink granular - odorless
Specific Gravity: (H₂O=1) 1.85 @
25°C for CaCl₂, 2.16 for NaCl
pH: Neutral to slightly alkaline for CaCl₂;
6.7-7.3 for NaCl

Evaporation Rate: (ether=1.0)N/A
% Volatilize by volume:(At 20°C)N/A
Molecular Weight:110.99 for CaCl₂
58.45 for NaCl
Freezing Point: 176° for CaCl₂
(Melting Point) 804°C for NaCl

SECTION IV-FIRE AND EXPLOSION HAZARD DATA

Flash Point : N/A
Flammability Limits: N/A LEL-N/A UEL-N/A
Extinguishing Media: Use extinguishing media appropriate for surrounding fire.
Special Fire Fighting Procedures: For fire fighting wear NIOSH-approved self-contained breathing apparatus.
Unusual Fire and Explosion Hazards: A potential explosion hazard exists when calcium chloride is mixed with furan 2-peroxy-carboxylic acid.

SECTION V-PHYSICAL HAZARDS

Stability: Stable Unstable
Conditions to Avoid: N/A
Conditions to Avoid: N/A

Incompatibility (Materials to Avoid): For CaCl₂ reacts violently with bromine trifluoride (BrF₃), or a mixture of boron trioxide and calcium oxide (B₂O₃+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. Sodium chloride undergoes violent reactions with BrF₃ and lithium.
Hazardous Decomposition: When heated to decomposition it emits toxic fumes of Cl₂ and Na₂O.
Products or Byproducts: None
Hazardous Polymerization: May occur Will not occur
Conditions to Avoid: N/A
Conditions to Avoid: N/A
Other Precautions: CaCl₂ will undergo violent polymerization with methyl vinyl ether. The anhydrous, monohydrate, dehydrate and tetrahydrate forms of calcium chloride when dissolved in water, produce considerable amount of heat

SECTION VI-HEALTH HAZARDS

Routes of Entry: Inhalation Skin Ingestion
Health Hazards (Acute and Chronic): **Eyes:** Direct contact will cause irritation. **Skin:** Prolonged or repeated skin contact may cause irritation.
Ingestion: May cause gastrointestinal irritation. **Inhalation:** Prolonged exposure in poorly ventilated areas may irritate nasal mucous membranes.
Carcinogenicity: NTP? N/A IARC Monographs? N/A OSHA Regulated? N/A
Signs and Symptoms of Exposure: See Health Hazards.
Medical conditions Generally Aggravated by Exposure: None Known
Emergency and First Aid Procedures: **Eyes:** Flush promptly with large amounts of water, for 15 min, occasionally lifting eyelids. **Skin:** Remove contaminated clothing. Wash with mild soap and water. **Ingestion:** If conscious, immediately give 2 to 4 large glasses of water. Include vomiting. **Inhalation:** Promptly remove to fresh air and rest. Restore and/or support breathing

SECTION VII-PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to be taken in Case Material is released or spilled:
Shovel up dry chemical and place in metal drum with cover, reuse if possible. Always wear personal protective equipment.
Waste Disposal Method: Dispose of container and unwanted product as permitted by all local, state, and federal regulation.
Precautions to be taken in Handling and Storage: Avoid contact with eyes, skin or clothing. Avoid breathing dust. Use good personal hygiene and housekeeping. Store in cool, dry area. Prolonged storage may cause product to cake and become wet from atmospheric moisture.
Aquatic Toxicity:
CaCl₂ is harmful to aquatic life at concentrations greater than 500ppm. CaCl₂ does not bioaccumulate. TLm 96:>1000mg/l. For NaCl Tim 96:>1000ppm.
Other Precautions:
Keep out of reach of Children.

SECTION VIII-CONTROL MEASURES

Respiratory Protection: For dusty conditions, wear NIOSH-approved dust respirator.
Ventilation: **Local Exhaust:** O.K. **Special:** N/A
Mechanical (Gen): Satisfactory **Other:** N/A
Protective Gloves: Rubber or plastic
Eye Protection: For dusty conditions, wear chemical safety goggles. Under these conditions do not wear contact lenses.
Other Protective Clothing or Equipment: Long-sleeve shirt and trousers.
Work/hygienic Practices: Wash hands after use

NOTICE: NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESS OR IMPLIED, OR MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR OF ANY OTHER NATURE, ARE MADE WITH RESPECT TO INFORMATION CONCERNING THE PRODUCT REFERRED TO IN THIS MATERIAL SAFETY DATA SHEET. The goal of defining precisely, in measurable terms, every possible health effect that may occur in the workplace as a result of chemical exposures cannot realistically be accomplished. The information and recommendations contained in this Material Safety Data Sheet is supplied pursuant to 29 C.F.R. 1910. 1200 of the Occupational Safety and Health Standards Hazard Communications Rule. The information and recommendations set forth herein are presented in good faith and believed to be correct as of the date hereof. Preferred Distributors, Inc. however, makes no representations as to the completeness or accuracy thereof, and information is supplied upon the express condition that the persons receiving the same will be required to make their own determination as to its suitability for their purposes prior to use. In no event will PRO-LINK be responsible for any damages of any nature whatsoever resulting from the use of, reliance upon, or the misuse of this information. The information as supplied herein is simply to be informative and intended solely to alert the user of the substance which is the subject matter of this Material Safety Data Sheet. The ultimate compliance with federal, state or local regulations concerning the use or disposal of this compound, or compliance with respect to product's liability, rests solely upon the purchaser thereof.