

MATERIAL SAFETY DATA SHEET

Emergency Phone Number: (313) 843-6460

Date Prepared: 09/08/10

1. PRODUCT IDENTIFICATION

Signature: 

Product Name: Evco Ice Eliminator
Chemical Name: Sodium Chloride, Calcium Chloride

2. COMPOSITION/INFORMATION ON INGREDIENTS

Description: White crystalline solid and white to off-white solid flakes. Odorless

Chemical	Formula	CAS #
Sodium Chloride	NaCl	007647-14-5
Calcium Chloride	CaCl ₂	010043-52-4

3. HEALTH HAZARD DATA

Potential Health Effects (See section 11 for toxicological data.)

EYE: May cause eye irritation. Dusts may cause sever irritation with corneal injury. Effects may be slow to heal. When dissolving, the heat produced may cause more intense effects as well as thermal burns.

SKIN: Short single exposure not likely to cause significant skin irritation. Prolonged or repeated exposure may cause skin irritation, even a burn. May cause more severe response if skin is damp or if material is confined to skin. May cause more severe response if skin is abraded (scratched or cut). When dissolving, the heat produced may cause more intense effects as well as thermal burns. Not classified as corrosive according to DOT. A single prolonged exposure is not likely to result in the material being absorbed through the skin in harmful amounts.

INGESTION: Single dose toxicity is considered to be low. Small amounts swallowed incidental to normal handling operations are not likely to cause injury; swallowing amounts larger than that may cause injury. Ingestion may cause gastrointestinal irritation or ulceration.

SYSTEMIC & OTHER EFFECTS: No relevant information found.

4. EMERGENCY & FIRST AID PROCEDURES

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, seek medical attention. Do not induce vomiting unless directed to do so by medical personnel.
INHALATION:	Remove to fresh air if effects occur. Consult a physician.

NOTE TO PHYSICIAN: If burn is present, treat as any thermal burn, after decontamination. No special antidote. Support care. Treatment based on judgment of the physician in repose to reactions of the patient.

5. FIRE FIGHTING MEASURES

Flammable Properties

Flash Point:	Not applicable
Hazardous Combustion:	Not applicable
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).

6. ACCIDENTAL RELEASE MEASURES (See Section 15 for Regulatory Information)

Protect People:	Isolate area. Avoid contact with eyes and skin. May be a slipping hazard. Stop leak if it can be done safely. Wash exposed body areas thoroughly after handling. Use appropriate safety equipment. For additional information, refer to Section 8 - "Exposure Controls/Personal Protection".
Protect the Environment:	For small spills: Losses incidental to correct applications of this product in its intended uses are not expected to be harmful to the environment. For large spills: Avoid contamination of drinking water, natural water, ground water, or any waterway. Losses incidental to correct applications of this product in its intended uses are not expected to be harmful to the environment.
Clean Up:	For small spills: Contain if possible. Collect material in suitable and properly labeled container. Flush residue with plenty of water. For large spills: Dike and transfer to suitable and properly labeled container. Flush residue with plenty of water.

7. HANDLING AND STORAGE

- Handling:** Heat developed during diluting or dissolving may become very high. Use cool water when diluting or dissolving. (Temperature less than 80°F, 27°C)
- Storage:** Keep containers tightly closed when not in use. Store in a dry place. Avoid humid or wet conditions as product will cake and become hard.
- Special Sensitivity:** Avoid contact with strong acids.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Personal Protective Equipment:

- Eye/Face Protection:** Use safety glasses. For dusty operations or when handling solutions of the material, wear chemical goggles.
- 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 face shields, gloves, boots, apron 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. If hands are scratched or cut, use gloves impervious to this material even for brief exposures.
- Respiratory Protection:** Atmospheric levels should be maintained below the exposure guideline. When respiratory protection is required for certain operations, use an approved air-purifying respirator. In dusty atmospheres, use an approved respirator.
- Exposure Guidelines:** Calcium Chloride: Dow IHG IS 10 MG/M3
Sodium Chloride: Dow IHG IS 10 MG/M3

9. PHYSICAL AND CHEMICAL PROPERTIES

- Physical Form:** White crystalline solid with slight halogen odor blended with white to off-white solid flakes
- Melting Point:** Approx. 345°F, 174°C **Boiling Point:** Approx. 347°F, 175°C
- Vapor Pressure:** 1.0 MMHG @ 20°C, 68°F **Specific Gravity:** 1.85-2.16
- Solubility in Water (g/cc, %):** 26.40%

10. STABILITY AND REACTIVITY

Chemical Stability: Stable. Hygroscopic.

Incompatibility with other materials: Corrosive to some metals. Avoid contact with such metals as brass, mild steel, aluminum, or ferrous metals. Flammable hydrogen may be generated from contact with metals such as zinc or sodium. Avoid contact with acids. Heat is generated when mixed with water. Spattering or boiling can occur.

Hazardous Decomposition does not occur.

Hazardous Polymerization does not occur.

11. TOXICOLOGICAL INFORMATION (See Section 3 for potential health effects. For detailed toxicological data, write or call the address or phone number in Section 1.)

Acute

Skin: The LD50 for skin absorption in rabbits is > 5,000 mg/kg for calcium chloride.

Ingestion: The oral LD50 for rats is 967 - 1,668 mg/kg for calcium chloride on 100% basis.

Mutagenicity (effects on genetic material): For calcium chloride, in vitro mutagenicity studies were negative.

12. ECOLOGICAL INFORMATION

Environmental Fate

Movement & Partitioning: Partitioning from water to N-Octanol is not applicable.

Degradation & Persistence: Biodegradation is not applicable.

Ecotoxicology: Based largely or completely on data of major components. Material is practically non-toxic to aquatic organisms on an acute basis (LC50 greater than 100 mg/l in most sensitive species.)

13. DISPOSAL CONSIDERATIONS

All disposal methods must be in compliance with Federal, State/Provincial, and local laws and regulations. Regulations may vary in different locations. The producer of this product has no control over the management practices or manufacturing processes of parties handling or using this material. The information presented here pertains only to the product as shipped in its intended condition as described in MSDS Section 2 (Composition/Information on Ingredients)

For unused or contaminated product, the preferred options include sending to a licensed, permitted: Reclaimer, Landfill, or Waste Water Treatment System.

14. TRANSPORT INFORMATION

United States DOT Information:

This product is not regulated by the D.O.T. when shipped domestically by land.

Canadian TDG Information:

This product is not regulated by the T.D.G when shipped domestically by land.

15. REGULATORY INFORMATION (not meant to be all-inclusive --- selected regulations represented)

Notice: The information herein is presented in good faith and believed to be accurate as of the effective date shown above. However, no warranty, expressed or implied is given. Regulatory requirements are subject to change and may differ from one location to another. It is the buyers responsibility to ensure that its activities comply with Federal, State/Provincial and local laws. The following information is made for the purpose of complying with numerous Federal, State or Provincial, and local laws and regulations. See other sections for health and safety information.

US Regulations

SARA 313 Information: To the best of our knowledge, this product contains no chemical subject to SARA Title III Section 313 supplier notification requirements.

SARA Hazard Category:

This product has been reviewed according to the EPA "Hazard Categories" promulgated under sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered under applicable definitions to meet the following categories: An Immediate Health Hazard. This product has been categorized as an "Immediate health hazard" due to the possibility of eye or skin irritation.

Toxic Substances Control Act (TSCA): All ingredients are on the TSCA inventory or are not required to be listed on the TSCA inventory.

The CAS numbers for TSCA are:

CAS# 010043-52-4

CAS# 007647-14-5

CAS# 007447-40-7

CAS# 007732-18-5

State Right-to-Know: This product is not known to contain any substances subject to the disclosure requirements of New Jersey or Pennsylvania.

This product is a "hazardous chemical" as defined by OSHA Hazard Communication Standard, 29 CFR 1910.1200. This product is categorized as an "hazardous chemical" due to the possibility of eye or skin irritation.

Canadian Regulations

WHMIS Information: The Canadian Workplace Hazardous Materials Information System (WHMIS) classification for this product is: DB2 - Eye or skin irritant. Refer elsewhere in this MSDS for specific warnings and safe handling information. Refer to Employer's Workplace Education Program.

CPR Statement: This product has been classified in accordance with the hazard criteria of the Canadian Controlled Substance Regulations (CPR) and the MSDS contains all information required by the CPR.

Hazardous Products Act information: This product contains the following ingredients which are controlled products and/or on the ingredient disclosure list (Canadian HPA Section 13 and 14):

Components:	CAS#
Sodium Chloride	7647-14-5
Calcium Chloride	010043-52-4

16. OTHER INFORMATION

Reason for Issue: Regulatory Compliance
Prepared by: Gregory L. Even
Title: President
Preparation Date: September 8, 2010

Disclaimer: All information, technical information and recommendations contained herein are to the best of our knowledge reliable and accurate. However, no warranty, either expressed or implied is made with respect thereto, nor will any liability be assumed for damages resultant from the use of the material described.

It is the responsibility of the user to comply with all Federal, State/Provincial, and local regulations. It is also the responsibility of the user to maintain a safe workplace. The user should consider the health hazards and safety information provided herein as a guide and should take necessary steps to instruct employees and to develop work practice procedures to ensure a safe work environment.