

## 1. CHEMICAL PRODUCT AND COMPANY INFORMATION

<b>Chemical Product Name</b>	ClearLane® enhanced deicer
<b>Chemical Family</b>	Alkali Metal/Halide
<b>Chemical Name</b>	Sodium Chloride admixed with Magnesium Chloride, and Triethanolamine
<b>Formula</b>	NaCl, MgCl <sub>2</sub> , (HOCH <sub>2</sub> CH <sub>2</sub> ) <sub>3</sub> N
<b>Molecular Weight</b>	NaCl = 58.44, MgCl <sub>2</sub> = 95.22, (HOCH <sub>2</sub> CH <sub>2</sub> ) <sub>3</sub> N = 149.19
<b>Manufacturer</b>	<b>Emergency Telephone Numbers</b>
Cargill Salt	CHEMTREC (800) 424-9300
P.O. Box 5621	
Minneapolis, MN 55440	

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

### Description

Green-colored crystalline solid.

Ingredient Name	CAS Number	Exposure Limits	Concentration
NaCl	7647-14-5	NA	94.2 – 96.8 %
Water	7732-18-5	NA	2.0 – 4.0 %
MgCl <sub>2</sub>	7786-30-30	NA	0.9 – 1.4 %
Triethanolamine	102-71-6	5 mg/m <sup>3</sup> (TWA)	210 - 320 ppm
Proprietary Dye		NA	100 – 200 ppm

## 3. HAZARDS IDENTIFICATION

### EMERGENCY OVERVIEW

#### Potential Health Effects

**Route(s) Of Entry:** Ingestion, skin/eye contact, inhalation.

#### **Human Effects and Symptoms of Overexposure:**

**Acute Inhalation:** Dust may irritate the respiratory tract.

**Chronic Inhalation:** No applicable information found for chronic system effects.

**Acute Skin Contact:** Prolonged exposure may cause irritation.

**Chronic Skin Contact:** No applicable information found for chronic system effects.

**Acute Eye Contact:** Irritation with burning and tearing.

**Chronic Eye Contact:** No applicable information found for chronic systemic effects.

**Acute Ingestion:** May cause nausea and vomiting.

**Chronic Ingestion:** No applicable information found for chronic systemic effects.

**Carcinogenicity:**

Ingredient	Known	Anticipated	IARC Category
Sodium Chloride (7647-14-5)	No	No	None
Triethanolamine (102-71-6)	No	No	3

**Medical Conditions Aggravated by Exposure:** Possible skin irritation to sensitive persons.

#### 4. FIRST AID MEASURES

**First Aid for Eyes:** Flush eyes with clean water for at least 15 minutes. If symptoms persist, seek medical attention.

**First Aid for Skin:** Remove clothing from affected area. Wash skin thoroughly. Rinse carefully.

**First Aid for Inhalation:** If respiratory symptoms develop or breathing becomes difficult, move victim away from source of exposure and into fresh air. If symptoms persist, seek immediate medical attention.

**First Aid for Ingestion:** No hazards anticipated due to incidental industrial exposure. For larger quantities, drink large amounts of water or milk.

#### 5. FIRE AND MEASURES

**Flash Point:** Non-flammable. Will not burn under normal conditions.

**Extinguishing Media:** Use water, dry chemical or chemical foam.

**Special Fire Fighting Procedures:** The use of NIOSH/MSHA approved self-contained breathing apparatus is recommended for fire fighters.

#### 6. ACCIDENTAL RELEASE MEASURES

**Spill or Leak Procedures:** Contain spills to prevent contamination of water supply or sanitary sewer system. Recover useable product. Vacuum or sweep into containers for disposal at an approved facility such as a municipal landfill or land application site.

#### 7. HANDLING AND STORAGE

**Storage Temperature (min./max.):** Avoid humid or wet conditions as product will cake and become hard.

**Special Sensitivity:** Avoid contact with strong acids.

**Handling and Storage Precautions:** Becomes hygroscopic at 75% relative humidity.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Eye Protection Requirements:** Eyeglasses or goggles should be worn in dusty areas.

**Skin Protection Requirements:** Normal work gloves and/or rubber gloves are usually adequate. Protective clothing may be worn, but is generally not required.

**Respiratory/Ventilation Requirements:** In processes where dusts or airborne particulates may be generated, a NIOSH approved respirator is advised in the absence of proper environmental controls.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Physical Form:** Crystalline solid with no odor.

**Color:** Green.

**Odor:** Odorless.

**Boiling Point (760mm Hg)(°C):** 1465

**Melting Point/Freezing Point (°C):** 801

**pH:** 5-9

**Solubility in Water (g/cc)(%):** 26.4

**Specific Gravity (H<sub>2</sub>O = 1):** 2.16

**Bulk Density (lbs./ft<sup>3</sup>):** 72-80

**% Volatile by Weight:** N/A

**Vapor Pressure (mm Hg/747°C):** 2.4

**Vapor Density (Air=1):** N/A

## 10. REACTIVITY

**Stability:** Stable

**Incompatibilities:** Avoid contact with strong acids, caustics, ammonia and cyanides.

**Decomposition Products:** May evolve chlorine gas when in contact with strong acids.

## 11. TOXICOLOGICAL INFORMATION

**Description:** No toxicity information is available for this specific material. The toxicity information provided is available to component(s) of this material.

**For Sodium Chloride:** Oral rat LD50: 3000 mg/kg.  
Inhalation rat LC50: > 42 gm/m<sup>3</sup> /1H.  
Skin rabbit LD50: > 10 gm/kg.

**For Triethanolamine:** Oral rat LD50: 8000 mg/kg  
Irritation data: Skin rabbit: 560 mg/24H mild  
Eye rabbit: 5620 ug severe  
Investigated as a tumorigen and a mutagen.

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity:** No definitive information available on environmental impact if product is released to the environment. Prevent contamination of ground and surface water.

## 13. DISPOSAL CONSIDERATIONS

**Waste Disposal Method:** Follow applicable Federal, state, and local regulations.

## 14. TRANSPORTATION INFORMATION

**D.O.T. Shipping Name:** Not listed.

**Technical Shipping Name:** Not listed.

**D.O.T. Hazard Class:** Not listed.

**U.N./N.A. Number:** Not listed.

**D.O.T. Label:** Not listed.

**D.O.T. Placard:** N/A

**Freight Class Bulk:** N/A

**Freight Class Package:** N/A

**Product Label:** N/A

## 15. REGULATORY INFORMATION

**OSHA Status:** non-hazardous

**TSCA Status:** All components of this product are currently listed on the TSCA inventory

### **CERCLA Reportable Quantity SARA Title III**

**Section 302 Extremely Hazardous Substances:** Not listed.

**Section 311/312 Hazard Categories:** Not listed.

**Section 313 Toxic Chemicals:** Not listed.

**RCRA Status:** Not listed.

**HMIS Rating: Health: 0 Flammability: 0 Reactivity: 0**

**State Regulatory Information**

<b>Company Name/Cas Number</b>	<b>Concentration</b>	<b>State Code</b>
N/A		

**16. OTHER INFORMATION**

<b>Reason for Issue:</b>	Regulatory compliance.
<b>Prepared By:</b>	Deborah Briggs
<b>Approved By:</b>	Dave Merriweather
<b>Title:</b>	Technical Director
<b>Approval Date:</b>	April 2005
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