

1. CHEMICAL PRODUCT AND COMPANY INFORMATION

Chemical Product Name ClearLane® enhanced deicer
Chemical Family Alkali Metal/Halide
Chemical Name Sodium Chloride admixed with Magnesium Chloride, and Triethanolamine
Formula NaCl, MgCl₂, (HOCH₂CH₂)₃N
Molecular Weight NaCl = 58.44, MgCl₂ = 95.22, (HOCH₂CH₂)₃N = 149.19

Manufacturer Cargill Deicing Technology
 24950 Country Club Blvd., Ste 450
 North Olmsted, OH 44070
 800-600-7258
 www.cargill.com

Emergency Telephone Numbers CHEMTREC (800) 424-9300

2. COMPOSITION/INFORMATION ON INGREDIENTS

Description
 Green-colored crystalline solid.

Ingredient Name	CAS Number	Exposure Limits	Concentration
NaCl	7647-14-5	NA	91.0 – 96.0 %
Water	7732-18-5	NA	2.6 – 4.0 %
MgCl ₂	7786-30-30	NA	0.9 – 1.4 %
Triethanolamine	102-71-6	5 mg/m ³ (TWA)	260 - 360 ppm
Proprietary Dye		NA	75 – 130 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 (H₂O = 1): 2.16

Bulk Density (lbs./ft³): 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/m³ /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

Company Name/Cas Number	Concentration	State Code
N/A		

16. OTHER INFORMATION

Reason for Issue: Regulatory compliance.
Prepared By: Deborah Briggs
Approved By: Dave Merriweather
Title: Technical Director
Approval Date: July 2005
Supersedes Date: April 2005
MSDS Number: NC19

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