



## Material Safety Data Sheet

### 1. CHEMICAL PRODUCT AND COMPANY INFORMATION

**Chemical Product Name** Sodium Chloride (Salt)  
**Chemical Family** Alkali Metal/Halide  
**Chemical Name** Sodium Chloride  
**Formula** NaCl  
**Molecular Weight** 58.44  
**Commercial Name** Diamond Crystal<sup>®</sup> GreenMelt<sup>™</sup> Ice Melter

**Manufacturer**  
Cargill Incorporated  
Salt Division  
P. O. Box 5621  
Minneapolis, MN 55440

**Emergency Telephone Numbers**  
CHEMTREC (800) 424-9300

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

**Description**  
Green crystalline solid.

Description	CAS Number	Concentration	Purpose
Sodium chloride	7647-14-5	89 - 99 %	Deicer
Calcium chloride	10043-52-4	4.5 – 5.5 %	Deicer
Magnesium chloride hexahydrate	7791-18-6	0.6 %	Deicer
Proprietary Colorant	Blend	0.005 %	Colorant
Water	7732-18-5	0.75 %	Carrier

### 3. HAZARDS IDENTIFICATION

#### EMERGENCY OVERVIEW

HMIS Health: 1, Flammability: 0, Reactivity: 0, Protective Equipment: A

#### Potential Health Effects

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

**Human Effects and Symptoms of Overexposure:**

**Acute Inhalation:** Irritation of the respiratory tract.

**Chronic Inhalation:** No applicable information found for chronic systemic effects

**Acute Skin Contact:** Large amounts can cause irritation and if applied to damaged skin, absorption can occur with effects similar to those via ingestion.

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

**Acute Eye Contact:** Irritation with burning and tearing (salt concentrations greater than the normal saline present).

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

**Acute Ingestion:** Intake of large amounts has generally occurred for deliberate reasons: suicide, absorption, and to induce vomiting. The following effects were observed; nausea and vomiting, diarrhea, cramps, restlessness, irritability, dehydration, water retention, nose bleed, gastrointestinal tract damage, fever, sweating, sunken eyes, high blood pressure, muscle weakness, dry mouth and nose, shock, cerebral (fluid on brain) or pulmonary edema (fluid in lungs), blood cell shrinkage, and brain damage (due to dehydration of brain cells). Death is generally due to cardiovascular collapse or CNS damage. Less than a few grams would not be harmful. For larger quantities, drink large amounts of water or milk.

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

#### **Carcinogenicity**

**NTP:** Not listed as a carcinogen or mutagen.

**IARC:** Not listed as a carcinogen or mutagen.

**OSHA:** Not listed as a carcinogen or mutagen.

**Medical Conditions Aggravated by Exposure:** In some cases of confirmed hypertension, ingestion may result in elevated blood pressure.

## **4. FIRST AID MEASURES**

**First Aid For Eyes:** For eye contact, flush with water immediately, lifting eyelids occasionally.

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

**First Aid For Inhalation:** If person breathes large quantities, remove to fresh air at once. If breathing stops, apply artificial respiration immediately.

**First Aid For Ingestion:** Less than a few grams would not be harmful. For larger quantities, drink large amounts of water or milk.

## **5. FIRE AND MEASURES**

**Flash Point:** N/A

**Extinguishing Media:** N/A. This product is nonflammable.

**Special Fire Fighting Procedures:** N/A.

## **6. ACCIDENTAL RELEASE MEASURES**

**Spill or Leak Procedures:** Contain spills to prevent contamination of water supply or sanitary sewer system. Vacuum or sweep into containers for proper disposal.

## **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 70% Relative Humidity

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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

**Skin Protection Requirements:** Protective clothing may be worn in dusty areas, but is generally not required.

**Respiratory/Ventilation Requirements:** NIOSH/MSHA approved respirator for particulates.

**Exposure Limits:** Not listed.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Physical Form:** Green crystalline solid with slight halogen odor.

**Color:** Green crystalline solid

**Odor:** Halogen odor

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

**Melt Point/Freeze Point (°C):** 801 degrees C.

**PH:** 6.7 - 7.3

**Solubility In Water (g/cc, %):** 26.4%

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

**Bulk Density:** 53-83 Lbs/Ft<sup>3</sup>

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

**Vapor Pressure (mm Hg/747°C):** = 2.4

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

## 10. REACTIVITY

**Stability:** Stable

**Incompatibilities:** Avoid contact with strong acids. Becomes corrosive to metals when wet.

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

## 11. TOXICOLOGICAL INFORMATION

**Description:** Not Listed

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity:** Not Listed.

**Environmental Degradation:** Not Listed.

### 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

**Product Rq (lbs.):** N/A

**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:** Not Listed

**TSCA Status:** Listed as non hazardous.

**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:** 1 0 0 A

#### State Regulatory Information

**Component Name**

**/CAS Number**

**Concentration**

**State-Code**

N/A

## 16. OTHER INFORMATION

**Reason For Issue:** Regulatory Compliance

**Prepared By:** Steve Karl

**Approved By:** Sarah Hubert

**Title:** Director-Quality Administration

**Approval Date:** August 2010

**Supersedes Date:** January 2010

**MSDS Number:** NG1(2010)

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