

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 Molecular Weight NaCl 58.44

Commercial Name

Diamond Crystal® Halite Winter Melt@ Dejoing Crystals

Manufacturer
Cargill Incorporated
Salt Division
P. O. Box 5621

Emergency Telephone Numbers CHEMTREC (800) 424-9300

Minneapolis, MN 55440

2. COMPOSITION/INFORMATION ON INGREDIENTS

Description

White crystalline solid.

Ingredient Name

CAS Number

Sodium Chloride 1647-14-5

Exposure Limits

Concontration (%)

3. HAZARDS INDENTIFICATION

EMERGENCY OVERVIEW

None - GRAS Substance (Generally Recognized As Safe)

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

Potential (Bealth Effects

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

Human Effects and Symptoms of Overexposure:

Acute Inhabition: 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 Confact; No applicable information found for chronic systemic effects.

Acute Eye Contact: Irritation with burning and tearing (solt concentrations greater than the normal sallne 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 offects were observed; nausea and vomiting, diarrhea, cramps, restlessness, irritability, dehydration, water retention, nose bleed, gastrointestinal tract damage, fevor, sweating, sunken eyes, high blood pressure, muscle weakness, dry mouth and nose, shock, cerebral (fluid on brain) or pulmonary edoma (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 caroinogen or mutagen.

IARC: Not listed as a caroinogen or mutagen.

OSHA: Not listed as a caroinogen 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 Ald For Eyes: For eye contact, flush with water immediately, lifting cyclids occasionally.

First Ald For Skin: Remove clothing from affected area. Wash skin thoroughly. Riuse 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 Loak Procedures: Contain spills to prevent contamination of water supply or sprittary sewer system. Vacuum or tweep into containers for proper disposal.

7. HANDLING AND STORAGE

Storage Temperature (min./max.): Avoid humid or wet conditions as product will take 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: White crystalline solid with slight halogen odor.

Color: White crystalline solid

Odor: Helogen odor

Bailing Point (760mm fig) (°C); 760 mm Hg, 1465 degrees C.

Melt Point/Preeze Point (OC): 801 degrees C.

PH: 6.7 - 7.3

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

Specific Gravity (H₂0=1): 2.16 (H₂0)

Bulk Density: 53-83 Lbs/Ft3

% Volatile By Weight: N/A

Vapor Pressure (mm $Hg/747^{\circ}C$): = 2.4

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

10. REACTIVITY

Stability: Stable

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

Decomposition Products: May evolve chloring gas when in contact with strong seids.

11. TOXICOLOGICAL INFORMATION

Description: Nat 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

Preight Class Package: N/A

Product Label: N/A

15. REGULATORY INFORMATION

OSHA Status: Not Listed

TSCA Status: Listed as non hazardous,

Cercin reportable Quantity SARA Title BY

Section 302 Extremely

Hazardous Substances: Not Listed

Section 311/312

Mazard categories: Not Listed

Section 313

Toxic Chemicals: Not Listed

RCRA Status: Not Listed

HMIS: 100A

State Regulatory Information

Component Name

/CAS Number

Concentration

N/A

16. OTHER INFORMATION

Ronnon For Issue: Regulatory Compliance

Prepared By: Steve Karl

Approved By: Dave Merriwenther Title: Director-Quality Administration

State-Code

Approval Date: May 2007 Supersedes Date: February 2005

MSDS Number: ND2

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