



Material Safety Data Sheet

1. CHEMICAL PRODUCT AND COMPANY INFORMATION

Chemical Product Name	Sodium Chloride (Salt) (Treated)
Chemical Family	Alkali Metal/Halide
Chemical Name	Sodium Chloride
Formula	NaCl
Molecular Weight	58.44
Commercial Name	Diamond Crystal [®] Jiffy Melt [®] Deicing Crystals, Dyn-O Melt [®] Deicing Crystals, Glacier Melt [®] Deicing Crystals

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

Clear to white crystals, slightly damp in appearance

Ingredient Name

CAS Number	Exposure Limits	Concentration (%)
Sodium Chloride 7647-14-5		88 - 96
Magnesium Chloride Hexahydrate 7791-18-6		2 - 12
Sodium Phosphate Monobasic 7558-80-7		0 - 4

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

THESE PRODUCTS ARE NOT REGULATED UNDER: OSHA Hazard Communication Standard 29 CFR 1910.1200 or SARA Title III Does not contain any hazardous components.

Potential Health Effects

Route(s) Of Entry: Inhalation, Skin, Ingestion.

Human Effects and Symptoms of Overexposure: Ingestion of large amounts (greater than 0.1 pound) can cause gastrointestinal upset and irritation of the stomach. Rare cases of over exposure can lead to systemic toxicity related to the binding of ionized blood calcium. No applicable information found for chronic systemic effects.

Acute Inhalation: Slight irritation of the nose; sneezing.

Chronic Inhalation: Not Applicable

Acute Skin Contact: Irritation; inflammation.

Chronic Skin Contact: Not Applicable

Acute Eye Contact: Irritation; inflammation.

Chronic Eye Contact: Not Applicable

Acute Ingestion: Nausea; vomiting.

Chronic Ingestion: Not Applicable

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. (This applies only to salt-sensitive individuals.)

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: Not Flammable.

Extinguishing Media: This product is not flammable. Use media appropriate to the surrounding fire.

Special Fire Fighting Procedures: Thermal oxidative decomposition may produce toxic fumes. A self-contained breathing apparatus (SCBA) with a full facepiece operated in the pressure demand or positive-pressure mode is recommended.

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.): Not Applicable

Special Sensitivity: Contact with strong acids. Under conditions of high heat, sodium chloride will react with lithium to yield elemental sodium, which will intensify fire conditions.

Handling and Storage Precautions: Avoid humid or wet conditions as product will cake and become hard.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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

Skin Protection Requirements: Normal work gloves are adequate. Protective clothing may be worn in dusty areas, but is generally not required. Warm water showering and handwashing is suggested after working in extremely dusty areas.

Respiratory/Ventilation Requirements: NIOSH/MSHA approved respirator for particulates. Dust collection equipment may be employed.

Exposure Limits: Ventilate as required to maintain airborne particulates below occupational exposure limits.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical Form: Mixture of white, gray or clear crystalline solids.

Color: White, gray or clear.

Odor: None

Boiling Point (760mm Hg) (°C): (760 mm Hg) (°C) = N/A

Melt Point/Freeze Point (°C): (°C) = 801

PH:

Solubility In Water (g/cc, %): (g/cc, %) = 35/100

Specific Gravity (H₂O=1): (H₂O=1) = 1.25

Bulk Density:

% Volatile By Weight:

Vapor Pressure (mm Hg/747°C): = N/A

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

10. REACTIVITY

Stability: Stable

Incompatibilities: Avoid contact with strong acids. Avoid contact with 2-furan percarboxylic acid. Will give off heat when in contact with water. Incompatible with alkaloids, lead acetate, antipyrine, chloral hydrate, resorcinol and pyrogallol.

Decomposition Products: Heating at high temperatures can produce toxic fumes. 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: For disposal of this material as a waste, act in accordance with all applicable Federal, state, and local waste management regulations.

14. TRANSPORTATION INFORMATION

D.O.T. Shipping Name: Not Applicable

Technical Shipping Name: Not Applicable

D.O.T Hazard Class: Not Applicable

U.N./N.A. Number: Not Applicable

Product Rq (lbs.): Not Applicable

D.O.T. Label: Not Applicable

D.O.T. Placard: Not Applicable

Freight Class Bulk: Not Applicable

Freight Class Package: Not Applicable

Product Label: Not Applicable

15. REGULATORY INFORMATION

OSHA Status: Not Listed

TSCA Status: Not Listed

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

State Regulatory Information

Component Name

/CAS Number

Concentration

State-Code

16. OTHER INFORMATION

Reason For Issue: Regulatory Communication

Prepared By: Steve Karl

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Title: Director-Quality Administration

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