



Material Safety Data Sheet

**1. CHEMICAL PRODUCT AND COMPANY INFORMATION**

<b>Chemical Product Name</b>	Sodium Chloride (Salt)
<b>Chemical Family</b>	Alkali Metal/Halide
<b>Chemical Name</b>	Sodium Chloride
<b>INCI Name</b>	SODIUM CHLORIDE
<b>INN Name</b>	sodium chloride
<b>Formula</b>	NaCl
<b>Molecular Weight</b>	58.44
<b>Commercial Name</b>	Diamond Crystal® Rock Salt
<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**  
White crystalline solid

Ingredient Name	Exposure Limits	Concentration (%)
CAS Number Sodium Chloride 7647-14-5		100

**3. HAZARDS IDENTIFICATION**

**EMERGENCY OVERVIEW**

None - GRAS Substance (Generally Recognized As Safe)

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 system 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 system 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 edema (fluid on brain), 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 carcinogen or mutagen.

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

**OSHA:** Not listed as 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 75% 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 to opaque.

**Odor:** Halogen odor when heated.

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

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

**pH:** 6.7 – 10.0

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

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

**Bulk Density (lbs./ft<sup>3</sup>):** 35-83

**% 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. 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.

**EINECS Number:** 231-598-3

**ENCS Number:** 1-236

**ECL Serial Number:** KE-31387

**SWISS Number:** G-2580

**HMIS Rating:** 1 0 0 A

**State Regulatory Information**

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

**16. OTHER INFORMATION**

**Reason for Issue:** Regulatory compliance.  
**Prepared By:** Steve Karl  
**Approved By:** Dave Merriweather  
**Title:** Technical Director  
**Approval Date:** February 2005  
**Supersedes Date:** September 2002  
**MSDS Number:** ND6

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