# Compass Minerals

#### MATERIAL SAFETY DATA SHEET

## 1. Product and Company Identification

Product Name Sodium Chloride, Salt

Product use De-icer General industrial and water softening/conditioning purposes.

Manufacturer

North American Salt Company
A Compass Minerals Company

9900 West 109th Street, Suite 100 Overland Park, KS 66210 US Phone: 913-344-9200

**CHEMTREC** 1-800-424-9300

#### 2. Hazards Identification

Emergency overview CAUTION

May cause eye and skin irritation.

Potential short term health effects

Routes of exposure Eye, Skin contact, Inhalation, Ingestion.

Eyes May cause irritation.

Skin May cause irritation.

**Inhalation** Dusts of this product may cause irritation of the nose, throat, and respiratory tract.

**Ingestion** May cause stomach distress, nausea or vomiting.

Target organs Eyes. Skin. Respiratory system.

**Chronic effects** Prolonged or repeated exposure can cause drying, defatting and dermatitis.

Signs and symptoms Symptoms may include redness, edema, drying, defatting and cracking of the skin.

Symptoms of overexposure may be headache, dizziness, tiredness, nausea and

vomiting.

OSHA Regulatory Status This product is NOT known to be a "Hazardous Chemical" as defined by the OSHA

Hazard Communication Standard, 29 CFR 1910.1200.

Potential environmental effects See section 12.

## 3. Composition / Information on Ingredients

Ingredient(s)	CAS#	Percent
Sodium chloride	7647-14-5	90 - 100

#### 4. First Aid Measures

First aid procedures

Eye contact Flush with cool water. Remove contact lenses, if applicable, and continue flushing.

Obtain medical attention if irritation persists.

Skin contact Brush away excess of dry material. Flush with water. Obtain medical attention if

irritation persists.

Inhalation If symptoms develop move victim to fresh air. If symptoms persist, obtain medical

attention.

**Ingestion** Do not induce vomiting. Never give anything by mouth if victim is unconscious, or is

convulsing. Obtain medical attention.

Notes to physician Symptoms may be delayed.

General advice Avoid contact with eyes. Keep out of reach of children.

# 5. Fire Fighting Measures

Flammable properties Not flammable by OSHA criteria. May be combustible at high temperatures.

Extinguishing media

Unsuitable extinguishing media Not available

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Protection of firefighters Specific hazards arising from Not available the chemical Protective equipment for Firefighters should wear full protective clothing including self contained breathing apparatus. firefighters May include and are not limited to: Hydrogen chloride. Chlorine. Oxides of sodium. **Hazardous combustion products Explosion data** Sensitivity to mechanical Not available impact Sensitivity to static discharge Not available 6. Accidental Release Measures Keep unnecessary personnel away. Do not touch damaged containers or spilled material Personal precautions unless wearing appropriate protective clothing. Keep people away from and upwind of spill/leak. Prevent entry into waterways, sewers, basements or confined areas. **Environmental precautions Methods for containment** None necessary. Methods for cleaning up Before attempting clean up, refer to hazard data given above. Use broom or dry vacuum to collect material for proper disposal without raising dust. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements. 7. Handling and Storage Handling Use good industrial hygiene practices in handling this material. Avoid breathing dusts from this material. Keep out of reach of children. Keep containers tightly closed in a cool, well-ventilated Storage place. 8. Exposure Controls / Personal Protection **Exposure limits** Ingredient(s) **Exposure Limits** Sodium chloride **ACGIH-TLV** Not established **OSHA-PEL** Not established TWA PEL: No specific limits have been established for sodium chloride (a soluble **Engineering controls** substance). As a guideline, OSHA (United States) has established the following limits which are generally recognized for inert or nuisance dust. Particulates Not Otherwise Regulated (PNOR): 5mg/cu.m. Respirable Dust 8-Hour TWA PEL, 15mg/cu.m. Total Dust 8-Hour TWA PEL. TWA TLV: No specific limits have been established for sodium chloride (a soluble substance). As a guideline, ACGIH (United States) has established the following limits which are generally recognized for inert or nuisance dust. Particulates (insolubles) Not Otherwise Classified (PNOC): 10mg/cu.m. Inhalable Particulate 8-Hours TWA TLV, 3mg/cu.m. Respirable Particulate TWA TLV. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. If user operations generate dust, fumes, or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit. Personal protective equipment Eye / face protection Safety glasses Hand protection Rubber gloves. Confirm with a reputable supplier first. Skin and body protection As required by employer code. Respiratory protection Where exposure guideline levels may be exceeded, use an approved NIOSH respirator or NIOSH-approved filtering facepiece.

## 9. Physical and Chemical Properties

Crystalline. **Appearance** Color White Crystals **Form** Odorless Odor Odor threshold Not available

Physical state Solid

Ha 6 - 8 (Neutral)

1473.62 °F (800.9 °C) **Melting point** 

Not available Freezing point

**Boiling point** 2575.40 °F (1413 °C)

Pour point Not available Not available **Evaporation rate** Flash point Not available Not available **Auto-ignition temperature** Flammability limits in air, lower, % Not applicable

by volume

Flammability limits in air, upper, % Not applicable

by volume

0.1 KPa (1 MmHg) @ 865°C Vapor pressure

Not applicable Vapor density Specific gravity 2.17 (H2O = 1)Relative density 2.17 g/cm3 Not available Octanol/water coefficient

Solubility (H2O) 36G/100g H2O @ 20°C

**Viscosity** Not applicable Percent volatile 0 % w/w

Molecular weight 58.4400 g/mole

Molecular formula NaCl

Not applicable Viscosity

#### 10. Stability and Reactivity

Reactive with oxidizing agents, acids, lithium, bromine trifluoride. Reactivity

Possibility of hazardous reactions Hazardous polymerization does not occur. Stable under recommended storage conditions. Chemical stability Do not mix with incompatible materials. Conditions to avoid

Incompatible materials Acids. Oxidizers.

Hazardous decomposition products May include and are not limited to: Hydrogen chloride. Chlorine. sodium oxides

## 11. Toxicological Information

Component analysis - LC50

LC50 Ingredient(s)

> 21000 mg/m3 rat Sodium chloride

Component analysis - Oral LD50

**LD50** Ingredient(s)

Sodium chloride 3000 mg/kg rat; 4000 mg/kg mouse

Effects of acute exposure

Eye May cause irritation. Skin May cause irritation.

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**Inhalation**Dusts of this product may cause irritation of the nose, throat, and respiratory tract.

**Ingestion** May cause stomach distress, nausea or vomiting.

Sensitization

Not classified or listed by IARC, NTP, OSHA and ACGIH.

Chronic effects

Not classified or listed by IARC, NTP, OSHA and ACGIH.

Carcinogenicity

Not classified or listed by IARC, NTP, OSHA and ACGIH.

Mutagenicity

Not classified or listed by IARC, NTP, OSHA and ACGIH.

Reproductive effects

Not classified or listed by IARC, NTP, OSHA and ACGIH.

Teratogenicity

Not classified or listed by IARC, NTP, OSHA and ACGIH.

Not classified or listed by IARC, NTP, OSHA and ACGIH.

Name of Toxicologically Synergistic Not available

**Products** 

# 12. Ecological Information

**Ecotoxicity** May be harmful to freshwater aquatic species and to plants that are not saline tolerant.

Persistence / degradability

Bioaccumulation / accumulation

Mobility in environmental media

Environmental effects

Aquatic toxicity

Partition coefficient

Chemical fate information

Not available
Not available
Not available
Not available

### 13. Disposal Considerations

Disposal instructions Waste must be disposed of in accordance with federal, state and local environmental

control regulations.

Waste from residues / unused

products

Contaminated packaging

Not available

Not available

## 14. Transport Information

#### U.S. Department of Transportation (DOT)

Not regulated as dangerous goods.

# 15. Regulatory Information

Occupational Safety and Health Administration (OSHA)

29 CFR 1910.1200 hazardous

chemical

INO

US Federal regulations This product is not known to be a "Hazardous Chemical" as defined by the OSHA

Hazard Communication Standard, 29 CFR 1910.1200.

**CERCLA (Superfund) reportable quantity** 

None

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - No

Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

Section 302 extremely hazardous substance

No

Section 311 hazardous chemical No

Clean Air Act (CAA)

Clean Water Act (CWA)

Not available

Not available

State regulations This product does not contain a chemical known to the State of California to cause

cancer, birth defects or other reproductive harm.

Country(s) or region Inventory name

On inventory (yes/no)\*

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory

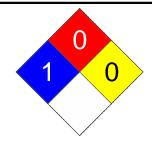
Yes

A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

#### 16. Other Information

LEGEND HMIS/NFPA	
Severe	4
Serious	3
Moderate	2
Slight	1
Minimal	0





**Disclaimer** 

Information contained herein was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the requirements of all applicable legislation and regulatory instruments. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of or reliance on any information contained in this document.

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Other information This MSDS conforms to the ANSI Z400.1/Z129.1-2010 Standard.