

# SAFETY DATA SHEET

## 1. Product and Company Identification

**Product Name** 7 @ 5 F ' D5 H< ' K -B H9 F ' K -A5 F 8  
**CAS #** Mixture  
**Product use** De-icer  
**Manufacturer** Hot Salt, LLC  
1580 NW 3rd Street  
Deerfield Beach, FL 33442  
Phone: 954-781-9200  
**CHEMTREC** 1-800-424-9300  
**CANUTEC** 1-800-996-6666

## 2. Hazards Identification

**Emergency overview** Contact 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.  
**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

<b>Ingredient(s)</b>	<b>CAS #</b>	<b>Percent</b>
Sodium chloride	7647-14-5	> 90%
Magnesium chloride	7786-30-3	< 8%
Calcium Magnesium Acetate	7732-18-5	< 2%

## 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 cool water. Wash with soap and 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.  
**General advice** If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Keep out of reach of children.

## 5. Fire Fighting Measures

Flammable properties	Not flammable by WHMIS/OSHA criteria.
Extinguishing media	
Suitable extinguishing media	Treat for surrounding material.
Unsuitable extinguishing media	Not available
Protection of firefighters	
Specific hazards arising from the chemical	Not available
Protective equipment for firefighters	Firefighters should wear full protective clothing including self contained breathing apparatus.
Hazardous combustion products	May include and are not limited to: Hydrogen chloride.
Explosion data	
Sensitivity to mechanical impact	Not available
Sensitivity to static discharge	Not available

## 6. Accidental Release Measures

Personal precautions	Keep unnecessary personnel away. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep people away from and upwind of spill/leak.
Environmental precautions	Prevent entry into waterways, sewers, basements or confined areas.
Methods for containment	Stop the flow of material, if this is without risk.
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. Rinse area with water. Prevent large spills from entering sewers or waterways.

## 7. Handling and Storage

Handling	Use good industrial hygiene practices in handling this material. Avoid breathing dusts from this material.
Storage	Keep out of reach of children. Store in a closed container away from incompatible materials.

## 8. Exposure Controls / Personal Protection

Exposure limits Ingredient(s)	Exposure Limits
Magnesium chloride	<b>ACGIH-TLV</b> Not established <b>OSHA-PEL</b> Not established
Polymer	<b>ACGIH-TLV</b> Not established <b>OSHA-PEL</b> Not established
Sodium chloride	<b>ACGIH-TLV</b> Not established <b>OSHA-PEL</b> Not established
Water	<b>ACGIH-TLV</b> Not established <b>OSHA-PEL</b> Not established

## Engineering controls

TWA PEL: No specific limits have been established for sodium chloride or magnesium chloride (soluble substances). 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 or magnesium chloride (soluble substances). 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.

## Personal protective equipment

### Eye / face protection

Wear safety glasses with side shields.

### 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.

### General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice. When using do not eat or drink. Wash hands before breaks and immediately after handling the product.

## 9. Physical and Chemical Properties

Appearance	Crystalline.
Color	Green
Form	Crystalline.
Odor	Odorless
Odor threshold	Not available
Physical state	Solid
pH	Not available
Melting point	Not available
Freezing point	Not available
Boiling point	Not available
Pour point	Not available
Evaporation rate	Not available
Flash point	Not available
Auto-ignition temperature	Not available
Flammability limits in air, lower, % by volume	Not applicable
Flammability limits in air, upper, % by volume	Not applicable
Vapor pressure	Not available
Vapor density	Not available
Specific gravity	Not available
Octanol/water coefficient	Not available
Percent volatile	Not available

## 10. Stability and Reactivity

Reactivity	None known.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Chemical stability	Stable under recommended storage conditions.
Conditions to avoid	Do not mix with other chemicals.
Incompatible materials	Acids. Oxidizers.
Hazardous decomposition products	May include and are not limited to: Hydrogen chloride.

## 11. Toxicological Information

### Component analysis - LC50

Ingredient(s)	LC50
Magnesium chloride, hexahydrate	Not available
Polymer	Not available
Sodium chloride	> 21000 mg/m3 rat

### Component analysis - Oral LD50

Ingredient(s)	LD50
Magnesium chloride	2800 mg/kg rat
Polymer	Not available
Sodium chloride	3000 mg/kg rat; 4000 mg/kg mouse

### Effects of acute exposure

Eye	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.
Sensitization	Non-hazardous by WHMIS/OSHA criteria.
Chronic effects	Non-hazardous by WHMIS/OSHA criteria.
Carcinogenicity	Not classified or listed by IARC, NTP, OSHA and ACGIH.
Mutagenicity	Non-hazardous by WHMIS/OSHA criteria.
Reproductive effects	Non-hazardous by WHMIS/OSHA criteria.
Teratogenicity	Non-hazardous by WHMIS/OSHA criteria.
Name of Toxicologically Synergistic Products	Not available

## 12. Ecological Information

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

### Ecotoxicity - Freshwater Algae - Acute Toxicity Data

### Ecotoxicity - Freshwater Fish - Acute Toxicity Data

Sodium chloride 7647-14-5 96 Hr LC50 *Lepomis macrochirus*: 5560-6080 mg/L [flow-through]; 96 Hr LC50 *Lepomis macrochirus*: 12946 mg/L [static]; 96 Hr LC50 *Pimephales promelas*: 6020-7070 mg/L [static]; 96 Hr LC50 *Pimephales promelas*: 7050 mg/L [semi-static]; 96 Hr LC50 *Pimephales promelas*: 6420-6700 mg/L [static]; 96 Hr LC50 *Oncorhynchus mykiss*: 4747-7824 mg/L [flow-through]

### Ecotoxicity - Water Flea - Acute Toxicity Data

Sodium chloride 7647-14-5 48 Hr EC50 *Daphnia magna*: 1000 mg/L; 48 Hr EC50 *Daphnia magna*: 340.7 - 469.2 mg/L [Static]

<b>Persistence / degradability</b>	Not available
<b>Bioaccumulation / accumulation</b>	Not available
<b>Mobility in environmental media</b>	Not available
<b>Environmental effects</b>	Not available
<b>Aquatic toxicity</b>	Not available
<b>Partition coefficient</b>	Not available
<b>Chemical fate information</b>	Not available

Other adverse effects Not available

### 13. Disposal Considerations

Disposal instructions	Waste must be disposed of in accordance with federal, state/provincial and local environmental control regulations.
Waste from residues / unused products	Not available
Contaminated packaging	Not available

### 14. Transport Information

U.S. Department of Transportation (DOT)  
Not regulated as dangerous goods.

Transportation of Dangerous Goods (TDG - Canada)  
Not regulated as dangerous goods.

### 15. Regulatory Information

Canadian federal regulations	This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.
WHMIS status	Not Controlled
Occupational Safety and Health Administration (OSHA) 29 CFR 1910.1200 hazardous chemical	No
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)	Not available
Clean Water Act (CWA)	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.
U.S. - Minnesota - Hazardous Substance List	
Urea	57-13-6 Present

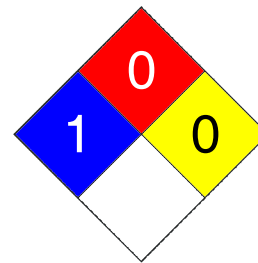
Inventory name	Country(s) or region	Inventory name	On inventory (yes/no)*
	Canada	Domestic Substances List (DSL)	Yes
	Canada	Non-Domestic Substances List (NDSL)	No
	United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

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

Health	/ 1
Flammability	0
Physical Hazard	0
Personal Protection	E



### 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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