Compass Minerals

MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Product Name Winter Storm Ice Melter

CAS # Mixture
Product use De-icer

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 **CANUTEC** 1-613-996-6666

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.

EyesMay cause irritation.SkinMay 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	70 - 100
Potassium chloride	7447-40-7	3 - 25
Urea	57-13-6	0.1 - 1

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. If you feel unwell, seek medical advice (show the label where

possible). Keep out of reach of children.

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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: Halogenated compounds. Some metallic oxides.	
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 or walk through spilled material. 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. 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.	
Storage	Keep out of reach of children. Keep containers tightly closed in a cool, well-ventilated place.	
8. Exp	oosure Controls / Personal Protection	
Exposure limits		
Ingredient(s)	Exposure Limits	
Potassium chloride	ACGIH-TLV	
	Not established	
	OSHA-PEL	
	Not established	
Sodium chloride	ACGIH-TLV	
	Not established	
	OSHA-PEL	
	Not established	
Urea	ACGIH-TLV	
	Not established	
	OSHA-PEL	
	Not established	

Engineering controls

TWA PEL: No specific limits have been established for sodium chloride, potassium chloride or calcium 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, potassium chloride or calcium 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. 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.

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

AppearanceCrystalline.ColorWhiteFormSolidOdorOdorlessOdor thresholdNot available

Physical state Solid pH 6 - 8

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

Flammability limits in air, upper, %

by volume

by volume

Not applicable

Vapor pressure
Not available
Vapor density
Not available
Specific gravity
1.2 @21°C
Octanol/water coefficient
Not available
Solubility (H2O)
partial

Percent volatile Not available

10. Stability and Reactivity

Reactivity This product may react with strong acids.

Possibility of hazardous reactions Hazardous polymerization does not occur.

Chemical stability Stable under recommended storage conditions.

Conditions to avoid Do not mix with incompatible materials.

Incompatible materials Acids. Oxidizers.

11. Toxicological Information		
Component analysis - LC50		
Ingredient(s)	LC50	
Potassium chloride	Not available	
Sodium chloride	> 21000 mg/m3 rat	
Urea	Not available	
Component analysis - Oral LD50		
Ingredient(s)	LD50	
Potassium chloride	1500 mg/kg mouse; 2500 mg/kg guinea pig; 2600 mg/kg rat	
Sodium chloride	3000 mg/kg rat; 4000 mg/kg mouse	
Urea	11000 mg/kg mouse; 8471 mg/kg rat; 510 mg/kg cattle; 510 mg/kg sheep	

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.

May cause stomach distress, nausea or vomiting. Ingestion

Not classified or listed by IARC, NTP, OSHA and ACGIH. Sensitization Chronic effects Not classified or listed by IARC, NTP, OSHA and ACGIH. Not classified or listed by IARC, NTP, OSHA and ACGIH. Carcinogenicity Mutagenicity Not classified or listed by IARC, NTP, OSHA and ACGIH. Not classified or listed by IARC, NTP, OSHA and ACGIH. Reproductive effects Not classified or listed by IARC, NTP, OSHA and ACGIH. **Teratogenicity**

Name of Toxicologically Synergistic Not available

Products

12. Ecological Information

	13 Dienosal Considerations
Other adverse effects	Not available
Chemical fate information	Not available
Partition coefficient	Not available
Aquatic toxicity	Not available
Environmental effects	Not available
Mobility in environmental media	Not available
Bioaccumulation / accumulation	Not available
Persistence / degradability	Not available
Ecotoxicity	May be harmful to freshwater aquatic species and to plants that are not saline tolerant.

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

Not available Contaminated packaging

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

Nο

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.

Inventory name

Country(s) or region Inventory name On inventory (yes/no)*

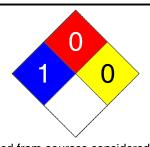
CanadaDomestic Substances List (DSL)YesCanadaNon-Domestic Substances List (NDSL)NoUnited States & Puerto RicoToxic Substances Control Act (TSCA) InventoryYes

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

16. Other Information







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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Prepared by Dell Tech Laboratories Ltd. (519) 858-5021

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

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