

SAFETY DATA SHEET (SDS)

PRODUCT & COMPANY IDENTIFICATION Section 1:

Twenty Below Zero, Ice Melter **Product Name** CAS#

7791-18-6, 7647-14-5, 010043-52-4

Product Use De-icer

Salt Depot Inc Manufacturer(s) Blending/Bagging

> 5442 Wells Park Road West Jordan, Utah 84084

801-282-1250

Supplier Salt Depot Inc

5442 Wells Park Road West Jordan, Utah 84084

801-282-1250

24 Hour Hotline CHEMTREC

800-424-9300

HAZARDS IDENTIFICATION Section 2:

Emergency Overview CAUTION

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.

Contact may cause eye and skin irritation.

Ingestion May cause stomach distress, nausea or vomiting.

Eyes. Skin. Respiratory system. **Target Organs**

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 skin.

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

COMPOSITION / INORMATION ON INGREDIENTS Section 3:

Ingredient(s) CAS# Percent Magnesium Chloride 7791-18-6 1% Sodium Chloride 7647-14-5 87% Calcium Chloride 010043-52-4 11% Potassium 1%

Acid Blue Liquid Colorant Blend (Xanthene and Triphenylmethane dyes)

Section 4: FIRST AID MEASURES

Ingestion

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 Flush with cool water. Wash with soap & water. Obtain medical attention if

irritation persists.

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

> Do not induce vomiting. Rinse mouth with water, then drink 1 to 2 glasses of water. Obtain medical attention. Never give anything by mouth if victim is

unconscious, or is convulsing.

Symptoms may be delayed.

General Advice None Available.

FIRE FIGHTING MEASURES Section 5:

Flammable Properties Not flammable by WHMIS/OSHA criteria.

Flash Point & Method N/A Flammable Limits

Extinguishing Media

Notes to Physician

Suitable Extinguishing Media Treat for surround material, water spray, dry chemicals, foam or carbon dioxide.

Unsuitable Extinguishing Media N/A Section 5: FIRE FIGHTING MEASURES, continued

Protection of Firefighters

Specific Hazards Arising from N/A

the Chemical Protective Equipment for

Protective Equipment for Firefighters should wear full protective clothing, including self contained breathing

Firefighters apparatus.
Unusual Fire & Explosion Hazards None

NFPA FIRE HAZARDS

Health: 1
Fire: 0
Reactivity: 0
Specific: N/A

| Minimal | 0 | Slight | 1 | Moderate | 2 | Serious | 3 | Severe | 4 |

Section 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions 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.

Methods of 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. Discard containers except for storage and shipment of original

product.

Section 7: HANDLING & STORAGE

Handling Avoid breathing dusts from this material.

Storage Keep out of reach of children. Keep containers tightly closed in a cool,

well-ventilated place.

Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits Ingredient(s)

 Ingredient(s)
 Exposure Limits

 Sodium Chloride
 ACGIH-TLV

Not established OSAH-PEL Not established

Magnesium Chloride ACGIH-TLV

ACGIH-TLV Not established OSAH-PEL Not established

Engineering Controls TWA PEL: No specific limits have been established for magnesium chloride & sodium

chloride (a soluble substance). As a guideline, OSHA 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-hr TWA PEL, 15mg/cu.m. Total dust 8-hr TWA PEL

TWA TLV: No specific limits have been established for magnesium chloride & sodium chloride (a soluble substance). As a guideline, ACGIH has established the following limits which are generally recognized for inert or nuisance dust. Particulates not

otherwise classified (PNOC):

10mg/cu.m. Respirable dust 8-hr TWA TLV, 15mg/cu.m. Total dust 8-hr 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 limits.

Personal Protective Equipment

Eye / Face Protection Safety Glasses.

Hand Protection Rubber gloves. Confirm with a reputable supplier first.

Skin & Body Protection As required by employer code.

Respiratory Protection Where exposure guideline 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 & immediately after handling product.

Section 9: **PHYSICAL & CHEMICAL PROPERTIES**

Crystalline Appearance Color Blue Crystalline Form Odor Slightly aromatic **Odor Threshold** Not available **Physical State** Solid рН 6-8 neutral 800.9 C (1473.8 F) **Melting Point** Freezing Point Not available 1413 C (2575.4 F) **Boiling Point** Flash Point Not available Not available

Evaporation Rate Flammability limits in air, lower, % by volume Not applicable Flammability limits in air, upper, % by volume Not applicable

Vapor Pressure 0.1 kPa (1 mmhg)@865 C Vapor Density Not applicable

Specific Gravity 2.17 (H@) @20 C Relative Density 2.17 g/cm3 Octanol/Water Coefficient Not available

Solubility (H2O) 36g/100g H2O @ 20 C **Partition Coefficient** Not available **Auto-ignition Temperature** Not available **Percent Volatile** 0% w/w Molecular Weight 58.4400 g/mole Molecular Formula NaCl, MgC12.6H2O

Section 10: CHEMICAL STABILITY REACTIVITY INFORMATION

Chemical Stability Stable under recommended storage conditions.

Conditions to Avoid Do not mix with incompatible materials.

Incompatible Materials Reactive with oxidizing agents, acids, metals in presence of moisture, lithium, bromine,

Hazardous Decomposition Products Possibility of Hazardous Reactions

May include and are not limited to: Halogenated compounds. Hydrogen chloride.

Section 11: TOXICOLOGICAL INFORMATION

Component Analysis-LC50

Ingredients Magnesium Chloride Not available Sodium Chloride >21000 mg/m3 rat

Component Analysis-Oral LD50

Ingredients

Magnesium Chloride 8100 mg/kg rat; 7600 mg/kg mouse

Sodium Chloride 3000 mg/kg rat

Effects of Acute Exposure

May cause irritation. Skin May cause irritation.

Inhalation Dust of this product may cause irritation of the nose, throat, & respiratory tract.

Ingestion May cause stomach distress, nausea or vomiting.

Sensitization Not classified or listed by IARC, NTP, OSHA, and ACGIH. Not classified or listed by IARC, NTP, OSHA, and ACGIH. Chronic Effects Not classified or listed by IARC, NTP, OSHA, and ACGIH. Carcinogenicity 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.

ECOLOGICAL INFORMATION Section 12:

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

Environmental Effects Not available. Aquatic Toxicity Not available. Persistence / Degradability Not available. **Bioaccumulation / Accumulation** Not available. Mobility in Environmental Media Not available. Chemical Fate Information Not available.

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Section 13: DISPOSAL CONSIDERATIONS

Waste codes Not available.

Disposal instructionWaste must be disposed of in accordance with federal, state & local environmental controls.

Wasteform Residues / Unused Products Not available.
Contaminated Packaging Not available.

Section 14: TRANSPORTATION INFORMATION

Department of Transportation (DOT)

Not regulated as dangerous goods

Transportation of Dangerous Goods (TDG)

Not regulated as dangerous goods

Section 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.

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.

Occupational Safety & Health Administration

29 CFR 1910.1200 Hazardous No

Chemical

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

No

Section 302 Extremely Hazardous Substance

Section 311 Hazardous No

Chemical

Clean Air Act (CAA)

Clean Water Act (CWA)

Safe Drinking Act (SDWA)

Drug Enforcement Agency (DEA)

Food and Drug Administration

WHMIS Status

Not available.

Not available.

Not available.

State Regulations This product does not contain any chemical known to the State of California to cause

cancer, birth defects, or other reproductive harm.

Inventory Name

 Country or Region
 Inventory Name
 On Inventory (yes/no)

 Canada
 Domestic Substances List (DSL)
 Yes

 Canada
 Non-Domestic Substances List (NSDL)
 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).

Section 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 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.

SDS Revision Date 15-Jul-2014

Other Information This SDS conforms to the ANSI Z400.1/Z129-2010 (Rev. 12/2012)