

**SAFETY DATA SHEET (SDS)**

| <b>Section 1: PRODUCT &amp; COMPANY IDENTIFICATION</b>               |  |  |
|--|--|--|
| <b>Product Name</b>  | <b>Ice Heat</b>  |  |
| <b>CAS #</b>   | 7647-14-5  |  |
| <b>Product Use</b>   | De-icer  |  |
| <b>Manufacturer(s)</b>   | <b>Blending/Bagging</b>  | <b>Salt Depot Inc</b><br>5442 Wells Park Road<br>West Jordan, Utah 84084<br>801-282-1250 |
| <b>Supplier</b>  | <b>Salt Depot Inc</b><br>5442 Wells Park Road<br>West Jordan, Utah 84084<br>801-282-1250   |  |
| <b>24 Hour Hotline</b>   | <b>CHEMTREC</b><br>800-424-9300  |  |
| <b>Section 2: HAZARDS IDENTIFICATION</b>                             |  |  |
| <b>Emergency Overview</b>  | <b>CAUTION</b><br>Contact may cause eye and skin irritation.   |  |
| <b>Potential Short Term Health Effects</b>                           |  |  |
| <b>Routes of Exposure</b>  | Eye, Skin Contact, Inhalation, Ingestion.  |  |
| <b>Eyes</b>  | May cause irritation.  |  |
| <b>Skin</b>  | May cause irritation.  |  |
| <b>Inhalation</b>  | Dusts of this product may cause irritation of the nose, throat, and respiratory tract.   |  |
| <b>Ingestion</b>   | May cause stomach distress, nausea or vomiting.  |  |
| <b>Target Organs</b>   | Eyes. Skin. Respiratory system.  |  |
| <b>Chronic Effects</b>   | Prolonged or repeated exposure can cause drying, defatting and dermatitis.   |  |
| <b>Signs and Symptoms</b>  | Symptoms may include redness, edema, drying, defatting, and cracking of skin.<br>Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.                  |  |
| <b>Section 3: COMPOSITION / INFORMATION ON INGREDIENTS</b>           |  |  |
| <b>Ingredient(s)</b>   | <b>CAS#</b>  | <b>Percent</b>   |
| Calcium Chloride   | 010043-52-4  | 1%   |
| Sodium Chloride  | 7647-14-5  | 97%  |
| Magnesium Chloride   | 7791-18-6  | 1%   |
| Potassium  |  | 1%   |
| Acid Blue Liquid Colorant Blend (Xanthene and Triphenylmethane dyes) |  |  |
| <b>Section 4: FIRST AID MEASURES</b>                                 |  |  |
| <b>First Aid Procedures</b>  |  |  |
| <b>Eye Contact</b>   | Flush with cool water. Remove contact lenses, if applicable, and continue flushing. Obtain medical attention if irritation persists.   |  |
| <b>Skin Contact</b>  | Flush with cool water. Wash with soap & water. Obtain medical attention if irritation persists.  |  |
| <b>Inhalation</b>  | If symptoms develop move victim to fresh air. If symptoms persist, obtain medical attention.   |  |
| <b>Ingestion</b>   | 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. |  |
| <b>Notes to Physician</b>  | Symptoms may be delayed.   |  |
| <b>General Advice</b>  | None Available.  |  |
| <b>Section 5: FIRE FIGHTING MEASURES</b>                             |  |  |
| <b>Flammable Properties</b>  | Not flammable by WHMIS/OSHA criteria.  |  |
| <b>Flash Point &amp; Method</b>                                      | N/A  |  |
| <b>Flammable Limits</b>  | N/A  |  |
| <b>Extinguishing Media</b>   |  |  |
| <b>Suitable Extinguishing Media</b>                                  | Treat for surround material, water spray, dry chemicals, foam or carbon dioxide.   |  |
| <b>Unsuitable Extinguishing Media</b>                                | N/A  |  |

**Section 5: FIRE FIGHTING MEASURES, continued**

**Protection of Firefighters**  
**Specific Hazards Arising from the Chemical** N/A  
**Protective Equipment for Firefighters** Firefighters should wear full protective clothing, including self contained breathing apparatus.  
**Unusual Fire & Explosion Hazards** None

**NFPA FIRE HAZARDS**

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

|        |          |   |
|--------|----------|---|
| LEGEND | 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)** Sodium Chloride  
**Exposure Limits**  
 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**

|  |                        |
|--|------------------------|
| Appearance                                     | Crystalline            |
| Color  | Blue                   |
| Form   | Crystalline            |
| Odor   | Slightly aromatic      |
| Odor Threshold                                 | Not available          |
| Physical State                                 | Solid                  |
| pH   | 6-8 neutral            |
| Melting Point                                  | 800.9 C (1473.8 F)     |
| Freezing Point                                 | Not available          |
| Boiling Point                                  | 1413 C (2575.4 F)      |
| Flash Point                                    | Not available          |
| Evaporation Rate                               | Not available          |
| 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, trifluoride. |
| Hazardous Decomposition Products   | May include and are not limited to: Halogenated compounds. Hydrogen chloride.                         |
| Possibility of Hazardous Reactions |   |

**Section 11: TOXICOLOGICAL INFORMATION**

|                              |   |
|------------------------------|---|
| Component Analysis-LC50      |   |
| Ingredients                  | LC50  |
| Sodium Chloride              | >21000 mg/m3 rat  |
| Component Analysis-Oral LD50 |   |
| Ingredients                  | LD50  |
| Sodium Chloride              | 3000 mg/kg rat  |
| Effects of Acute Exposure    |   |
| Eye                          | 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.                             |
| 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.                             |

**Section 12: ECOLOGICAL INFORMATION**

|                                 |   |
|---------------------------------|---|
| Ecotoxicity                     | May be harmful to freshwater aquatic species and to plants that are not tolerant. |
| 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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|--------------------|--------------------------------|
| <b>Section 13:</b> | <b>DISPOSAL CONSIDERATIONS</b> |
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|                                      |   |
|--------------------------------------|---|
| Waste codes                          | Not available.  |
| Disposal instruction                 | Waste must be disposed of in accordance with federal, state & local environmental controls. |
| Wasteform Residues / Unused Products | Not available.  |
| Contaminated Packaging               | Not available.  |

|                    |                                   |
|--------------------|-----------------------------------|
| <b>Section 14:</b> | <b>TRANSPORTATION INFORMATION</b> |
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|   |                                  |
|---|----------------------------------|
| Department of Transportation (DOT)      | Not regulated as dangerous goods |
| Transportation of Dangerous Goods (TDG) | Not regulated as dangerous goods |

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| <b>Section 15:</b> | <b>REGULATORY INFORMATION</b> |
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|  |  |   |                       |
|--|--|---|-----------------------|
| 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<br>29 CFR 1910.1200 Hazardous Chemical   | No   |   |                       |
| CERCLA (Superfund) Reportable Quantity   | None   |   |                       |
| Superfund Amendments and Reauthorization Act of 1986 (SARA)<br>Hazard Categories   | Immediate Hazard - No<br>Delayed Hazard - No<br>Fire Hazard - No<br>Pressure Hazard - No<br>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.   |   |                       |
| Safe Drinking Act (SDWA)   | Not available.   |   |                       |
| Drug Enforcement Agency (DEA)  | Not available.   |   |                       |
| Food and Drug Administration   | Not available.   |   |                       |
| WHMIS Status   | Not controlled.  |   |                       |
| 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). |  |   |                       |

|                    |                          |
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| <b>Section 16:</b> | <b>OTHER INFORMATION</b> |
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|-------------------|---|
| 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)   |