

**MATERIAL SAFETY DATA SHEET (MSDS)  
PURE & NATURAL DEICER**

**SECTION I – GENERAL**

Trade Name: <b>PURE &amp; NATURAL DEICER</b>	C.A.S. Number: <b>7647-14-5</b>
Chemical Name: <b>SODIUM CHLORIDE blend</b>	Formula: <b>NaCl+CaCl<sub>2</sub>+MgCl<sub>2</sub>+dye</b>
Molecular Weight: <b>58.4428</b>	
Address: <b>P. O. Box 675 Franklin, MA 02038-0675</b>	Contact: Env. Health & Safety Officer Phone: <b>508-520-3900</b> Date Issued: <b>9/12/2008</b>

**SECTION II – FIRST AID**

Emergency Phone Number: CHEMTREC: (800) 424-9300
Skin: <b>Wash with water</b>
Eyes: <b>Irrigate with plenty of water</b>

**SECTION III - HAZARDS INFORMATION – HEALTH**

Inhalation: <b>Inhalation of product may cause mild irritation of nose and throat</b>
Ingestion: <b>Ingestion of large amounts (greater than 0.1 lb) may cause gastrointestinal upset.</b>
Skin: <b>Dust may cause irritation.</b>
Eyes: <b>Dust may cause irritation.</b>
Permissible Concentration: Air: <b>None established</b> Biological: <b>No TLV established</b>
Unusual Chronic Toxicity: <b>None</b>

**SECTION IV - HAZARDS INFORMATION**

Flash Point °C : <b>Not flammable</b> Auto ignition Temp °C : <b>N/A</b>
<input type="checkbox"/> Open Cup <input type="checkbox"/> Closed Cup
Flammable Limits In Air (% by volume) – <b>N/A</b>

**SECTION V – PRECAUTIONS/PROCEDURES**

Fire Extinguishing Agents Recommended: <b>N/A</b> Fire Extinguishing Agents to Avoid: <b>N/A</b>
Special Fire Fighting Precautions: <b>N/A</b>
Ventilation: <b>Local exhaust if dusty conditions prevail.</b>
Normal Handling: <b>Avoid eye contact or prolonged skin contact.</b>
Storage: <b>Wet or damp conditions can cause caking or corrosion of metal contact surfaces.</b>
Spill or Leak: <b>Shovel up dry material into an empty container. Flush residue with water down local sewer.</b>
Special: Precautions/Procedures/Label Instructions: <b>Store in cool, dry area. No special cautions or labeling are required.</b>

**SECTION VI – PERSONAL PROTECTIVE EQUIPMENT**

Respiratory Protection: <b>When required, use a respirator approved by NIOSH for product dust.</b>
Eyes and Face: <b>In extremely dusty areas, chemical safety goggles should be used.</b>
Hands, Arms, and Body: <b>Wear long-sleeved shirts and trousers for routine product handling. Gloves are optional.</b>
Other Clothing and Equipment: <b>N/A</b>

## SECTION VII – PHYSICAL DATA

Material is (At Normal Conditions)  Liquid  Solid  Gas  \_\_\_\_\_  
Appearance and Odor: **Light Green crystalline solid. Slight saline odor.**  
Boiling Point: **1465°C** Specific Gravity (H<sub>2</sub>O = 1): **2.16** Vapor Density (Air – 1): **N/A**  
Melting Point: **800°C** Vapor Pressure (mm Hg at 20°C): **2.4 mm at 746.9°C**  
Solubility In Water (% By Weight): **26.395 Max at 60°F** ph (20% Solution): **6.5 – 9.5**

## SECTION VIII – REACTIVITY DATA

Stability:  Stable  Unstable  
Conditions to Avoid: **Wet/damp conditions can cause caking and corrosion.**  
Incompatibility (Materials to Avoid): **None provided the product is dry.**  
Hazardous Decomposition Products: **None**  
Hazardous Polymerization:  May Occur  Will Not Occur  
Conditions To Avoid:

## SECTION IX – HAZARDOUS CHEMICALS/INGREDIENTS

Material or Component/ C.A.S. No.: **Sodium Chloride, CAS 7645-14-5, Calcium Chloride 10043-52-4 , Magnesium Chloride 7791-18-6**

Weight %: NaCl: 70-90%; CaCl<sub>2</sub>: 2-20%; MgCl<sub>2</sub>: 1-10%; Dye: 0.00001-0.00005%  
Hazard Data (See Section): Contains no hazardous ingredients as defined by OSHA Hazard Communication Standard (29 CFR 1910.12000)

## SECTION X – ENVIRONMENTAL

Degradability / Aquatic Toxicity: **Product is inorganic and may persist in the environment.**  
EPA Hazardous Substance?  
 Yes  No If so, reportable quantity \_\_\_\_\_ 40 CFR 116 – 117  
Waste Disposal Methods (Disposer Must Comply With Federal, State and Local Disposal or Discharge Laws): **Flush to sewer if permitted by applicable disposal regulations.**  
RCRA Status of Unused Material: **Not a “hazardous waste.”**  
40 CFR 261

## SECTION XI – REFERENCES

Permissible Concentration References:

Regulatory Standards: **FDA regulations apply to food use and USP/NF grades (21 CFR).**  
**USDA regulations apply to use in meat and poultry products.**

D.O.T. Classification: N/A - 49 CFR

General: **(a) Recommendations of the Salt Institute**

## SECTION XII – ADDITIONAL INFORMATION

**This product is not for food or drug use unless material is labeled “food grade”, “USP grade”, or “NF grade”, as applicable.**

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