SAFETY DATA SHEET

Section 1: Product Identification

Product Name
Safer Than Salt® Premium Performance Ice Melter

Identified Uses
Melt Snow and Ice

Supplier's Details
The Kissner Group
32 Cherry Blossom Road, Cambridge, Ontario, Canada N3H 4R7

Phone Number
(519) 279-4860

Emergency Contact (24 Hrs)
(613) 996-6666 CANUTEC

Section 2: Hazard Identification

Classification (GHS)
Not Classified

GHS Labelling
No Labelling applicable

Percentage
Not applicable

Other Hazards
Exposure may aggravate those with pre-existing eye, skin, or respiratory conditions. When heated to decomposition, emits toxic fumes. Corrosive to metals upon prolonged contact.

Section 3: Composition/Information On Ingredients

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>Percentage</th>
<th>CAS. NO.</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium Chloride</td>
<td>80.0-99.9%</td>
<td>7647-14-5</td>
<td>Not Classified</td>
</tr>
<tr>
<td>Calcium Chloride</td>
<td>0.01-5.0%</td>
<td>10043-52-4</td>
<td>Eye Irrit. 2A, H319</td>
</tr>
<tr>
<td>Magnesium Chloride</td>
<td>0.01-5.0%</td>
<td>7786-30-3</td>
<td>Not Classified</td>
</tr>
<tr>
<td>Calcium Magnesium Acetate (CMA)</td>
<td>0.01-5.0%</td>
<td>76123-46-1</td>
<td>Acute Tox. 4 (Inhalation:dust,mist), H332; Eye Irrit. 2B, H320</td>
</tr>
<tr>
<td>Potassium Chloride</td>
<td>0.01-5.0%</td>
<td>7447-40-7</td>
<td>Aquatic Acute 3, H402</td>
</tr>
<tr>
<td>Product may contain color indicator</td>
<td>N/A</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Section 4: First-Aid Measures

Description of First Aid Measures

General
Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice.

Inhalation
When symptoms occur: go into open air and ventilate suspected area. Remove to fresh air and keep at rest in a position comfortable for breathing. Obtain medical attention if breathing difficulty persists. Remove contaminated clothing. Brush off loose particles. Drench affected area with water for at least 15 minutes. Obtain medical attention if irritation persists. Wash contaminated clothing before reuse.

Skin Contact
Rinse cautiously with water for several minutes. Brush off loose particles. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if irritation develops or persists.

Eye Contact
Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician.

Most Important Symptoms and Effects Both Acute and Delayed

General
Dust may cause mechanical irritation to eyes, nose, throat, and lungs

Inhalation
Prolonged contact with large amounts of dust may cause mechanical irritation.
Section 5: Fire-Fighting Measures

Suitable Extinguishing Media: Use extinguishing media appropriate for surrounding fire.
Unsuitable Extinguishing Media: Do not use a heavy water stream. Use of heavy stream of water may spread fire.
Fire Hazard: Not considered flammable but may burn at high temperatures.
Explosion Hazard: Product is not explosive.
Reactivity: When heated to decomposition, emits toxic fumes. Toxic Gas.
Other Information: Do not allow run-off from firefighting to enter drains or water courses.

Section 6: Accidental Release Measures

Personal Precautions: Avoid breathing (dust). Avoid all contact with skin, eyes, or clothing.
Protective Equipment: Use appropriate personal protection equipment (PPE).
Environmental Precautions: Prevent entry to sewers and public waters. Avoid release to the environment.
Methods for Cleaning Up: Clear up spills immediately and dispose of waste safely. Recover the product by vacuuming, shoveling or sweeping. Contact competent authorities after a spill.

Section 7: Handling And Storage

Precautions for Safe Handling: When heated to decomposition, emits toxic fumes. Contact with water causes an exothermic heat reaction, which may cause significant temperature rise. Corrosive to metals upon prolonged contact. May release hydrogen gas on prolonged contact with certain metals.
Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and again when leaving work. Do not eat, drink or smoke when using this product. Wash hands and forearms thoroughly after handling.

Conditions for Safe Storage, Including Any Incompatibilities

Technical Measures: Comply with applicable regulations
Storage Conditions: Keep/Store away from extremely high or low temperatures, direct sunlight, heat, ignition sources, and incompatible materials.
Section 8: Exposure Controls/Personal Protection

Control Parameters: No Occupational Exposure Limits (OELs) have been established for this product or its chemical components.

Appropriate Engineering Controls: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure all national/local regulations are observed. Ensure adequate ventilation, especially in confined areas.


Materials for Protective Clothing: Chemically resistant materials and fabrics.

Hand Protection: Wear chemically resistant protective gloves.

Eye Protection: Chemical goggles or face shield.

Skin and Body Protection: Wear suitable protective clothing.

Respiratory Protection: Use NIOSH-approved air-purifying or supplied-air respirator where airborne concentrations are expected to exceed exposure limits.

Section 9: Physical And Chemical Properties

Appearance: Blue Colored Granules. Odorless.

Vapour Pressure (mm Hg at 20°C): Not available

Vapour Density (Air = 1.0): Not available

Bulk Density: Not available

Solubility in Water: Water Soluble

Specific Gravity (gm/cc, Water = 1.0): Not available

% Volatile by Volume: Non-volatile

Boiling Point: Not available

Melting Point: Not available

Coefficient of Water/Oil Distribution: Not available

pH: 10 (1% solution @ 20°C)

Section 10: Stability And Reactivity

Chemical Stability: Stable under normal conditions.

Reactivity: When heated to decomposition, emits toxic fumes. Toxic Gas.

Possibility of Hazardous Reactions: Polymerization occurs with calcium chloride when mixed with methyl vinyl ether.

Conditions to Avoid: Direct sunlight. Extremely high or low temperatures. Incompatible materials.


Section 11: Toxicological Information

Acute Toxicity: Not classified
LD50 and LC50 Data: Not available
Skin Corrosion/Irritation: Not classified
Serious Eye Damage/Irritation: Not classified
Respiratory or Skin Sensitization: Not classified
Germ Cell Mutagenicity: Not classified
Teratogenicity: Not available
Carcinogenicity: Not classified
Specific Target Organ Toxicity (Repeated Exposure): Not classified
Reproductive Toxicity: Not classified
Specific Target Organ Toxicity (Single Exposure): Not classified
Aspiration Hazard: Not classified

Information on Toxicological Effects - Ingredient(s)

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>LD50 Oral Rat</th>
<th>LC50 Inhalation Rat</th>
<th>LC50 Dermal Rabbit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium chloride (7647-14-5)</td>
<td>3 g/kg</td>
<td>&gt; 42 g/m³ (Exposure time: 1 h)</td>
<td></td>
</tr>
<tr>
<td>Calcium Chloride (10043-52-4)</td>
<td>1455-2781 mg/kg</td>
<td>&gt; 5000 mg/kg</td>
<td></td>
</tr>
<tr>
<td>Calcium Magnesium Acetate (76123-46-1)</td>
<td>&gt; 4600 mg/m³ (Exposure time: 4 h)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Potassium Chloride (7447-40-7)</td>
<td>2600 mg/kg</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Section 12: Ecological Information

Toxicity
Sodium chloride (7647-14-5)

<table>
<thead>
<tr>
<th>Test</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>LC50 Fish 1</td>
<td>5560 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [flow-through])</td>
</tr>
<tr>
<td>EC50 Daphnia 1</td>
<td>1000 mg/l (Exposure time: 48 h - Species: Daphnia magna)</td>
</tr>
<tr>
<td>LC 50 Fish 2</td>
<td>12946 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])</td>
</tr>
<tr>
<td>EC50 Daphnia 2</td>
<td>340.7 (340.7 - 469.2) mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])</td>
</tr>
</tbody>
</table>

Calcium Chloride (10043-52-4)

<table>
<thead>
<tr>
<th>Test</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>LC50 Fish 1</td>
<td>10650 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])</td>
</tr>
<tr>
<td>EC50 Daphnia 1</td>
<td>2400 mg/l (Exposure time: 48 h - Species: Daphnia magna)</td>
</tr>
</tbody>
</table>

Potassium Chloride (7447-40-7)

<table>
<thead>
<tr>
<th>Test</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>LC50 Fish 1</td>
<td>1060 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])</td>
</tr>
<tr>
<td>EC50 Daphnia 1</td>
<td>825 mg/l (Exposure time: 48 h - Species: Daphnia magna)</td>
</tr>
<tr>
<td>LC 50 Fish 2</td>
<td>750-1020 mg/l (Exposure time: 96 h - Species: Pimephales Promelas [static])</td>
</tr>
<tr>
<td>EC50 Daphnia 2</td>
<td>83 mg/l (Exposure time: 48 h - Species: Daphnia magna [static])</td>
</tr>
</tbody>
</table>

Persistence and degradability
Bio accumulative potential
Sodium chloride (7647-14-5) BCF Fish 1 (no bioaccumulation)
**Calcium chloride (10043-52-4)** | BCF Fish 1 | (no bioaccumulation)  
**Mobility in Soil** | Not available  
**Other Information** | Avoid release to the environment

## Section 13: Disposal Considerations

**Waste Disposal Recommendations**  
Dispose of waste material in accordance with all local, regional, national, provincial, territorial and international regulations.

## Section 14: Transport Information

- **In Accordance with DOT**  
  Not regulated for transport  
- **In Accordance with IMDG**  
  Not regulated for transport  
- **In Accordance with IATA**  
  Not regulated for transport  
- **In Accordance with TDG**  
  Not regulated for transport

## Section 15: Regulatory Information

### US Federal Regulations

- **Sodium chloride (7647-14-5)**  
  Listed on the United States TSCA (Toxic Substances Control Act) inventory

### Canadian Regulations

- **Safer Than Salt® Premium Performance Ice Melter**  
  WHMIS Classification  
  Uncontrolled product according to WHMIS classification criteria

- **Sodium chloride (7647-14-5)**  
  Listed on the Canadian DSL (Domestic Substances List)  
  WHMIS Classification  
  Uncontrolled product according to WHMIS classification criteria

- **Calcium chloride (10043-52-4)**  
  Listed on the Canadian DSL (Domestic Substances List)  
  WHMIS Classification  
  Class D Division 2 Subdivision B - Toxic material causing other toxic effects

- **Magnesium Chloride (7786-30-3)**  
  WHMIS Classification  
  Uncontrolled product according to WHMIS classification criteria

- **Calcium Magnesium Acetate (76123-46-1)**  
  Listed on the Canadian DSL (Domestic Substances List)  
  WHMIS Classification  
  Class D Division 2 Subdivision B - Toxic material causing other toxic effects

- **Potassium Chloride (7447-40-7)**  
  Listed on the Canadian DSL (Domestic Substances List)  
  WHMIS Classification  
  Class D Division 2 Subdivision B - Toxic material causing other toxic effects

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all of the information required by CPR.
Section 16: Other Information

Other Information
This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

Effective Date
April 22, 2015

Version
1

Contact
sds@kissner.com

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