**PRODUCT SPECIFICATION AND MATERIAL SAFETY DATA SHEET**

**GREEN SCAPES ICE MELTING COMPOUND**

**Effective Date:** July 2010

**Identity:** Green Scapes Ice Melting Compound contains a proprietary combination of Sodium Chloride, Liquid Magnesium Chloride with Corrosion Inhibitor, Ice Ban®200, and Turf Mark Green liquid.

**Hazardous Ingredients/Identity Information:** Does not contain hazardous components.

<table>
<thead>
<tr>
<th>Physical/Chemical Characteristics:</th>
<th>Fire and Explosion Hazard Data:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boiling Point: Not Applicable</td>
<td>Flash Point: Not Applicable</td>
</tr>
<tr>
<td>Vapor Pressure: Not Applicable</td>
<td>Flammable Limits: Not Applicable</td>
</tr>
<tr>
<td>Vapor Density: Not Applicable</td>
<td>Lel and Uel: Not Applicable</td>
</tr>
<tr>
<td>Melting Point: Not Applicable</td>
<td>Extinguishing Media: Water or Foam</td>
</tr>
<tr>
<td>Evaporation Rate: Not Applicable</td>
<td>Spec. Fire Fighting Procedures: None</td>
</tr>
<tr>
<td>Specific Gravity: 2.076</td>
<td>Unusual Fire &amp; Explosion Hazards: None</td>
</tr>
<tr>
<td>Solubility in Water: 317 gpl @ 0° C</td>
<td></td>
</tr>
<tr>
<td>Appearance: Aqua Green Dry Granules</td>
<td></td>
</tr>
<tr>
<td>Odor: Minimal Odor</td>
<td></td>
</tr>
</tbody>
</table>

**Reactivity Data:**

<table>
<thead>
<tr>
<th>Stability: Stable</th>
<th>Health Hazard Data:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Condition to Avoid: Strong Oxidizing Acids</td>
<td>Routes of Entry--</td>
</tr>
<tr>
<td>Incompatibility: Not Applicable</td>
<td>Inhalation: N/A Under Normal Conditions</td>
</tr>
<tr>
<td>Hazardous Decomposition or By-Products: Not Applicable</td>
<td>Skin: N/A Under Normal Conditions</td>
</tr>
<tr>
<td>Hazardous Polymerization: Will Not Occur</td>
<td>Ingestion: N/A Under Normal Conditions</td>
</tr>
<tr>
<td></td>
<td>Health Hazards: None Known</td>
</tr>
<tr>
<td></td>
<td>Carcinogenicity: Not Applicable</td>
</tr>
<tr>
<td></td>
<td>Larc Monographs: Not Applicable</td>
</tr>
<tr>
<td></td>
<td>OSHA Regulated: Not Applicable</td>
</tr>
<tr>
<td></td>
<td>Signs &amp; Symptoms of Exposure: None</td>
</tr>
</tbody>
</table>

**Medical Conditions Generally Aggravated by Exposure:** None known.
Emergency and First Aid Procedures:

Wash off with water.
In case of eye contact, flush eyes with running water.
If ingested, induce vomiting by lavage with water or milk.

Precautions for Safe Handling and Use:

Steps to be taken in case material is released or spilled:
Sweep up clean material into clean container.

Waste disposal method:
Discard in normal waste disposal according to local regulations.

Precautions to be taken in handling or storage:
Store in dry area. Wash hands after handling.

Control Measures:

Respiratory Protection: Not Normally Needed
Ventilation: Not Needed Under Normal Conditions

Protective Clothing or Equipment:

Gloves: Optional
Eye Protection: Optional
Other: Optional

Work/Hygienic Practices: Wash hands with warm, soapy water after handling.

Storage and Handling Precautions:

Store in dry, well-ventilated area.
Practice good housekeeping; clean up spills immediately.

References & Definitions:

Combinations:

<table>
<thead>
<tr>
<th>Material</th>
<th>CAS Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>NaCl</td>
<td>7647-14-5</td>
</tr>
<tr>
<td>MgCl₂</td>
<td>7786-30-3</td>
</tr>
<tr>
<td>Corrosion Inhibitor</td>
<td>7446-20-2</td>
</tr>
<tr>
<td>Ice Ban® 200</td>
<td>50-21-5</td>
</tr>
</tbody>
</table>
ICE BAN® 200

Chemical Product and Company Identification

Product Name: Ice Ban® 200
Manufacturer: Scotwood Industries
12980 Metcalf – Suite 240
Overland Park, KS 66213
Telephone Number: (800) 844-2022

Composition/Information on Components:

<table>
<thead>
<tr>
<th>Component</th>
<th>% Comp.</th>
<th>OSHA PEL</th>
<th>ACGIH TLV</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ice Ban® Performance Plus Concentrate</td>
<td>10-30%</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>MgCl₂ (30% Solution)</td>
<td>70-90%</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

Fire Fighting Measures:

Flash Point: N/A
Flammable Limits:
  Upper Limit: N/A
  Lower Limit: N/A
Autoignition Temperature: N/A
Fire & Explosion Hazard: Negligible fire hazard.
Extinguishing Media:
  Dry Chemical, Carbon Dioxide
  Water Fog, Alcohol Foam
Neutralizing Chemicals: None
Special Firefighting: No special procedures required.
Precautionary Statement: None
NFPA Hazard Code:
  Health               0
  Flammability         0
  Reactivity           0

Physical and Chemical Properties:

Appearance/Odor: Golden w/ mild odor
Physical Description: Liquid
pH: 3.0 – 4.0
Boiling Point: 240° F
Melting Point: Not noted
Solubility in Water: Completed
Evaporation Rate: Slower than water
Pure Material or Mixture: Mixture
Specific Gravity: 1.255
Volatile Organic Compounds: N/A

Accidental Release Measures:
Spills should be contained and taken up with suitable absorbent and placed in containers. Spill area can be washed with water.
Exposure Control/Personal Protection:

<table>
<thead>
<tr>
<th>Route of Entry?</th>
<th>Health Effects</th>
<th>Emergency First Aid Measures</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eyes</td>
<td>May cause irritation and may injure eye tissue if not removed.</td>
<td>Immediately flush eyes with large amounts of water for at least 15 minutes, lifting upper and lower lids.</td>
</tr>
<tr>
<td>Ingestion</td>
<td>Drink water. Large doses may cause gastrointestinal discomfort.</td>
<td>If gastrointestinal irritation develops, consult medical personnel.</td>
</tr>
<tr>
<td>Inhalation</td>
<td>Vapors may be irritating to the respiratory system and nasal passages.</td>
<td>Remove to fresh air. If respiratory symptoms develop, consult medical personnel.</td>
</tr>
<tr>
<td>Skin Absorption</td>
<td>Prolonged or repeated contact may cause irritation.</td>
<td>Flush with large amounts of water; use soap if available.</td>
</tr>
</tbody>
</table>

Stability and Reactivity:

Stability: Stable  
Conditions to Avoid: None  
Incompatibility: Not Reactive  
Hazardous Decomposition: Hydrogen Chloride byproduct when heated to >572° F.  
Hazardous Polymerization: Will not occur.

Toxicological Information:

Toxicity Hazard Rating:  
Not currently listed under SARA Title III.

OSHA Hazardous/Non-Hazardous:  
Non-Hazardous

Ecological Information:

Material does not cause significant environmental impact.

Disposal Considerations:

For disposal of this material as a waste, comply with all applicable local, state, and federal regulations for waste disposal.

Transport Information:

DOT: Not restricted  
IATA: Not restricted  
HMIS Labeling: Exempt

Regulatory Information:

SARA Title III Classification:  
Not currently listed as toxic chemical under 40 CFR section 372.65.

CAS#: 50-21-5