SECTION 1: IDENTIFICATION

1.1. Product Identifier
   - Product Form: Mixture
   - Product Name: Alpine Ice Melt
   - Product Number: I000008, I000037, I000102, F000138, F000273, F000277, F000278, F000318

1.2. Intended Use of the Product
   - Deicer.

1.3. Name, Address, and Telephone of the Responsible Party
   - Company
     Nachurs Alpine Solutions
     421 Leader St.
     Marion, OH 43302
     740-382-5701

1.4. Emergency Telephone Number
   - Emergency Number: CHEMTREC: 1-800-424-9300 (USA)
     CANUTEC: 1-613-996-6666 (CANADA)
     QM: 1-887-387-7745 (CANADA)

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the Substance or Mixture
   - GHS-US/CA Classification
     Not classified

2.2. Label Elements
   - GHS-US/CA Labeling
     No labeling applicable

2.3. Other Hazards
   - Exposure may aggravate pre-existing eye, skin, or respiratory conditions.

2.4. Unknown Acute Toxicity (GHS-US/CA)
   - No data available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substance
   - Not applicable

3.2. Mixture
   - Name | Product Identifier | % | GHS Ingredient Classification
   - Potassium hydroxide | (CAS-No.) 1310-58-3 | < 0.1046 | Met. Corr. 1, H290
     | | | Acute Tox. 3 (Oral), H301
     | | | Skin Corr. 1A, H314
     | | | Eye Dam. 1, H318
     | | | STOT SE 1, H370

Full text of H-phrases: see section 16

*Percentages are listed in weight by weight percentage (w/w%) for liquid and solid ingredients. Gas ingredients are listed in volume by volume percentage (v/v%).

SECTION 4: FIRST AID MEASURES

4.1. Description of First-aid Measures
   - General: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
   - Inhalation: When symptoms occur: go into open air and ventilate suspected area. Obtain medical attention if breathing difficulty persists.
Alpine Ice Melt
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According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations And According To The Hazardous Products Regulation (February 11, 2015).

Skin Contact: Remove contaminated clothing. Drench affected area with water for at least 15 minutes. Obtain medical attention if irritation develops or persists.
Eye Contact: Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention.
Ingestion: Rinse mouth. Do NOT induce vomiting. Obtain medical attention.

4.2. Most Important Symptoms and Effects Both Acute and Delayed
   General: Not expected to present a significant hazard under anticipated conditions of normal use.
   Inhalation: Prolonged exposure may cause irritation.
   Skin Contact: Prolonged exposure may cause skin irritation.
   Eye Contact: May cause slight irritation to eyes.
   Ingestion: Ingestion may cause adverse effects.
   Chronic Symptoms: None expected under normal conditions of use.

4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed
   If exposed or concerned, get medical advice and attention. If medical advice is needed, have product container or label at hand.

SECTION 5: FIRE-FIGHTING MEASURES

5.1. Extinguishing Media
   Suitable Extinguishing Media: Water spray, dry chemical, foam, carbon dioxide.
   Unsuitable Extinguishing Media: Do not use a heavy water stream. Use of heavy stream of water may spread fire.

5.2. Special Hazards Arising From the Substance or Mixture
   Fire Hazard: Not considered flammable but may burn at high temperatures.
   Explosion Hazard: Product is not explosive.
   Reactivity: Hazardous reactions will not occur under normal conditions.

5.3. Advice for Firefighters
   Precautionary Measures Fire: Exercise caution when fighting any chemical fire.
   Firefighting Instructions: Use water spray or fog for cooling exposed containers.
   Protection During Firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.
   Reference to Other Sections
   Refer to Section 9 for flammability properties.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal Precautions, Protective Equipment and Emergency Procedures
   General Measures: Avoid prolonged contact with eyes, skin and clothing. Avoid breathing (vapor, mist, spray).
   6.1.1. For Non-Emergency Personnel
   Protective Equipment: Use appropriate personal protective equipment (PPE).
   6.1.2. For Emergency Personnel
   Protective Equipment: Equip cleanup crew with proper protection.
   Emergency Procedures: Ventilate area. Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit.

6.2. Environmental Precautions
   Prevent entry to sewers and public waters.

6.3. Methods and Materials for Containment and Cleaning Up
   For Containment: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.
   Methods for Cleaning Up: Clean up spills immediately and dispose of waste safely. Transfer spilled material to a suitable container for disposal. Contact competent authorities after a spill.

6.4. Reference to Other Sections
   See Section 8 for exposure controls and personal protection and Section 13 for disposal considerations.
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SECTION 7: HANDLING AND STORAGE

7.1. Precautions for Safe Handling

Precautions for Safe Handling: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Avoid prolonged contact with eyes, skin and clothing. Avoid breathing vapors, mist, spray.

Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures.

7.2. Conditions for Safe Storage, Including Any Incompatibilities

Technical Measures: Comply with applicable regulations.

Storage Conditions: Keep container closed when not in use. Store in a dry, cool place. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials.

Incompatible Materials: Strong acids, strong bases, strong oxidizers.

7.3. Specific End Use(s)

Deicer.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control Parameters

For substances listed in section 3 that are not listed here, there are no established Exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), AIHA (WEEL), NIOSH (REL), OSHA (PEL), or Canadian provincial governments.

<table>
<thead>
<tr>
<th>Material</th>
<th>USA ACGIH Ceiling (mg/m³)</th>
<th>USA NIOSH REL (ceiling) (mg/m³)</th>
<th>Alberta OEL Ceiling (mg/m³)</th>
<th>British Columbia OEL Ceiling (mg/m³)</th>
<th>Manitoba OEL Ceiling (mg/m³)</th>
<th>New Brunswick OEL Ceiling (mg/m³)</th>
<th>Newfoundland &amp; Labrador OEL Ceiling (mg/m³)</th>
<th>Nova Scotia OEL Ceiling (mg/m³)</th>
<th>Nunavut OEL Ceiling (mg/m³)</th>
<th>Northwest Territories OEL Ceiling (mg/m³)</th>
<th>Ontario OEL Ceiling (mg/m³)</th>
<th>Prince Edward Island OEL Ceiling (mg/m³)</th>
<th>Québec PLAFOND (mg/m³)</th>
<th>Saskatchewan OEL Ceiling (mg/m³)</th>
<th>Yukon OEL Ceiling (mg/m³)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Potassium hydroxide (1310-58-3)</td>
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<tr>
<td>USA ACGIH</td>
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<tr>
<td>USA NIOSH</td>
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<td>Alberta OEL</td>
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<td>British Columbia OEL</td>
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<td>Manitoba OEL</td>
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<td>New Brunswick OEL</td>
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<td>2 mg/m³</td>
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<tr>
<td>Newfoundland &amp; Labrador OEL</td>
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<td>Nova Scotia OEL</td>
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<td>Nunavut OEL</td>
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<td>Northwest Territories OEL</td>
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<td>2 mg/m³</td>
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<tr>
<td>Ontario OEL</td>
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<td>2 mg/m³</td>
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<tr>
<td>Prince Edward Island OEL</td>
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<td>2 mg/m³</td>
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<tr>
<td>Québec PLAFOND</td>
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<td></td>
<td>2 mg/m³</td>
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<tr>
<td>Saskatchewan OEL</td>
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<td>2 mg/m³</td>
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<tr>
<td>Yukon OEL</td>
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<td>2 mg/m³</td>
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</tbody>
</table>

8.2. Exposure Controls

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


Materials for Protective Clothing: Chemically resistant materials and fabrics.

Hand Protection: Wear protective gloves.

Eye and Face Protection: Chemical safety goggles.

Skin and Body Protection: Wear suitable protective clothing.

Respiratory Protection: If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn. In case of inadequate ventilation, oxygen deficient atmosphere, or where exposure levels are not known wear approved respiratory protection.

Other Information: When using, do not eat, drink or smoke.
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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on Basic Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical State</td>
<td>Liquid</td>
</tr>
<tr>
<td>Appearance</td>
<td>Clear to Nearly Colorless</td>
</tr>
<tr>
<td>Odor</td>
<td>Characteristic, Slight Acetic</td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>Not available</td>
</tr>
<tr>
<td>pH</td>
<td>9.5 - 10.5</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>Not available</td>
</tr>
<tr>
<td>Melting Point</td>
<td>Not available</td>
</tr>
<tr>
<td>Freezing Point</td>
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</tr>
<tr>
<td>Boiling Point</td>
<td>Not available</td>
</tr>
<tr>
<td>Flash Point</td>
<td>&gt; 100 °C (&gt; 212 °F)</td>
</tr>
<tr>
<td>Auto-ignition Temperature</td>
<td>Not available</td>
</tr>
<tr>
<td>Decomposition Temperature</td>
<td>Not available</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Lower Flammable Limit</td>
<td>Not available</td>
</tr>
<tr>
<td>Upper Flammable Limit</td>
<td>Not available</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>Not available</td>
</tr>
<tr>
<td>Relative Vapor Density at 20°C</td>
<td>Not available</td>
</tr>
<tr>
<td>Relative Density</td>
<td>Not available</td>
</tr>
<tr>
<td>Density</td>
<td>10.58 - 10.83 lb/gal</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>1.27 - 1.30</td>
</tr>
<tr>
<td>Solubility</td>
<td>Complete</td>
</tr>
<tr>
<td>Partition Coefficient: N-Octanol/Water</td>
<td>Not available</td>
</tr>
<tr>
<td>Viscosity</td>
<td>Similar to Water</td>
</tr>
</tbody>
</table>

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity: Hazardous reactions will not occur under normal conditions.

10.2. Chemical Stability: Stable under recommended handling and storage conditions (see section 7).

10.3. Possibility of Hazardous Reactions: Hazardous polymerization will not occur.

10.4. Conditions to Avoid: Direct sunlight, extremely high or low temperatures, and incompatible materials.

10.5. Incompatible Materials: Strong acids, strong bases, strong oxidizers.

10.6. Hazardous Decomposition Products: None expected under normal conditions of use.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on Toxicological Effects - Product

Acute Toxicity (Oral): Not classified
Acute Toxicity (Dermal): Not classified
Acute Toxicity (Inhalation): Not classified
LD50 and LC50 Data: Not available

Skin Corrosion/Irritation: Not classified
pH: 9.5 - 10.5
Eye Damage/Irritation: Not classified
pH: 9.5 - 10.5

Respiratory or Skin Sensitization: Not classified
Germ Cell Mutagenicity: Not classified
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
### Alpine Ice Melt

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Symptoms/Injuries After Inhalation: Prolonged exposure may cause irritation.
Symptoms/Injuries After Skin Contact: Prolonged exposure may cause skin irritation.
Symptoms/Injuries After Eye Contact: May cause slight irritation to eyes.
Symptoms/Injuries After Ingestion: Ingestion may cause adverse effects.

**Chronic Symptoms**: None expected under normal conditions of use.

11.2. **Information on Toxicological Effects - Ingredient(s)**

<table>
<thead>
<tr>
<th>LD50 and LC50 Data:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Potassium hydroxide (1310-58-3)</td>
</tr>
<tr>
<td>LD50 Oral Rat</td>
</tr>
<tr>
<td>284 mg/kg</td>
</tr>
</tbody>
</table>

### SECTION 12: ECOLOGICAL INFORMATION

12.1. **Toxicity**
Ecology - General: Not classified.

12.2. **Persistence and Degradability**

<table>
<thead>
<tr>
<th>Alpine Ice Melt</th>
</tr>
</thead>
<tbody>
<tr>
<td>Persistence and Degradability</td>
</tr>
<tr>
<td>Not established.</td>
</tr>
</tbody>
</table>

12.3. **Bioaccumulative Potential**

<table>
<thead>
<tr>
<th>Alpine Ice Melt</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bioaccumulative Potential</td>
</tr>
<tr>
<td>Not established.</td>
</tr>
</tbody>
</table>

12.4. **Mobility in Soil**
Not available

12.5. **Other Adverse Effects**
Other Information: Avoid release to the environment.

### SECTION 13: DISPOSAL CONSIDERATIONS

13.1. **Waste treatment methods**

Waste Disposal Recommendations: Dispose of contents/container in accordance with local, regional, national, provincial, territorial and international regulations.

Ecology - Waste Materials: Avoid release to the environment.

### SECTION 14: TRANSPORT INFORMATION

The shipping description(s) stated herein were prepared in accordance with certain assumptions at the time the SDS was authored, and can vary based on a number of variables that may or may not have been known at the time the SDS was issued.

14.1. **In Accordance with DOT**
Not regulated for transport

14.2. **In Accordance with IMDG**
Not regulated for transport

14.3. **In Accordance with IATA**
Not regulated for transport

14.4. **In Accordance with TDG**
Not regulated for transport

### SECTION 15: REGULATORY INFORMATION

15.1. **US Federal Regulations**

<table>
<thead>
<tr>
<th>Potassium hydroxide (1310-58-3)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Listed on the United States TSCA (Toxic Substances Control Act) inventory</td>
</tr>
<tr>
<td>CERCLA RQ</td>
</tr>
<tr>
<td>1000 lb</td>
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</tbody>
</table>

15.2. **US State Regulations**

<table>
<thead>
<tr>
<th>Potassium hydroxide (1310-58-3)</th>
</tr>
</thead>
<tbody>
<tr>
<td>U.S. - Massachusetts - Right To Know List</td>
</tr>
<tr>
<td>U.S. - New Jersey - Right to Know Hazardous Substance List</td>
</tr>
<tr>
<td>U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List</td>
</tr>
<tr>
<td>U.S. - Pennsylvania - RTK (Right to Know) List</td>
</tr>
</tbody>
</table>

15.3. **Canadian Regulations**
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Potassium hydroxide (1310-58-3)
Listed on the Canadian DSL (Domestic Substances List)

SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION
Date of Preparation or Latest Revision: 02/25/2019
Other Information: This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200 and Canada’s Hazardous Products Regulations (HPR) SOR/2015-17.

GHS Full Text Phrases:

<table>
<thead>
<tr>
<th>Acute Tox. 3 (Oral)</th>
<th>Acute toxicity (oral) Category 3</th>
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</thead>
<tbody>
<tr>
<td>Eye Dam. 1</td>
<td>Serious eye damage/eye irritation Category 1</td>
</tr>
<tr>
<td>Met. Corr. 1</td>
<td>Corrosive to metals Category 1</td>
</tr>
<tr>
<td>Skin Corr. 1A</td>
<td>Skin corrosion/Irritation Category 1A</td>
</tr>
<tr>
<td>STOT SE 1</td>
<td>Specific target organ toxicity (single exposure) Category 1</td>
</tr>
<tr>
<td>H290</td>
<td>May be corrosive to metals</td>
</tr>
<tr>
<td>H301</td>
<td>Toxic if swallowed</td>
</tr>
<tr>
<td>H314</td>
<td>Causes severe skin burns and eye damage</td>
</tr>
<tr>
<td>H318</td>
<td>Causes serious eye damage</td>
</tr>
<tr>
<td>H370</td>
<td>Causes damage to organs</td>
</tr>
</tbody>
</table>

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

NA GHS SDS 2015 (Can, US)