SECTION 1: IDENTIFICATION

**Product name:** DE-ICER RTU PA  
**Recommended use:** Snow and ice melter  
**Physical Description:** Clear blue liquid with mild vinegar odor  
**Generic Ingredients:** Water, potassium acetate, dye

**Manufacturer:** Penetone Corporation  
125 Kingsland Ave.  
Clifton, NJ 07014  
800-631-1652 or 201-567-3000

**Business Contact:**  
Customer Service  
800-631-1652 x2602 or 2272  
Product Safety  
800-631-1652 x2211 or 2257

**Emergency Phone Numbers:** PENETONE 201-567-3000  
CHEMTREC 800-424-9300

SECTION 2: HAZARDS IDENTIFICATION

**GHS CLASSIFICATION:**

<table>
<thead>
<tr>
<th>Health:</th>
<th>Physical:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not classified</td>
<td>Not classified</td>
</tr>
</tbody>
</table>

Under GHS guidelines, meets no classification criteria.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS#</th>
<th>Concentration Wt% (1)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water</td>
<td>7732-18-5</td>
<td>45-55</td>
</tr>
<tr>
<td>Potassium acetate</td>
<td>127-08-2</td>
<td>45-55</td>
</tr>
</tbody>
</table>

(1) Exact percentages being withheld under trade secret provision of OHSA HCS 1910.1200(I)

SECTION 4: FIRST-AID MEASURES

**General Description of Symptoms & First-Aid Measures**

Most likely workplace exposure routes will be **skin contact or inhalation**. For **skin contact**, no irritation is expected. Repeated or prolonged exposure may lead to drying of the skin, particularly when used in cold or low humidity conditions, or with persons with existing dermatological condition. **Inhalation** of mist may result in minor discomfort to the upper respiratory tract (nose and throat). Typical symptoms could include coughing and sneezing.

**Eyes**

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists or develops: Get medical advice or attention. Penetone recommends that after any eye exposure a physician be seen immediately.

**Ingestion**

If swallowed: Rinse mouth. Call a poison center, doctor, physician or other competent medical authority if you feel unwell.

**Inhalation**

If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center, doctor, physician or other competent medical authority if you feel unwell.

**Skin**
If on skin: Wash with plenty of water or a mild soap. Take off contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice or attention.

Special Treatment / Other
None

SECTION 5: FIRE FIGHTING MEASURES

Flammable Properties
Classification: Non-flammable
Flash Point: None-to-boil
Autoignition Temperature: not applicable
Lower Flammable Limit: Not applicable  Upper Flammable Limit: Not applicable

Specific Hazards
Product is water based and presents no unusual fire hazards.

Extinguishing Media
Use extinguishing agents appropriate for controlling surrounding fire.

Unsuitable: None.

Protection & Precautions for Firefighters
Protective Equipment & Clothing: Wear positive pressure self-contained breathing apparatus (SCBA). Structural firefighters protective clothing will only provide limited protection.

Fire Fighting Guidance: Cool containers with flooding quantities of water until well after fire is out. Move containers from fire area if you can do it safely. Dike fire control water for later disposal; do not scatter material. Containers can expand and explode under fire conditions due to vapor buildup. Always stay away from containers engulfed in fire.

Hazardous Combustion Products: Smoke, fumes, and oxides of carbon when taken to dryness.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Land Spill
Stop leak if you can do it safely. For large spills, dike and pump into properly labeled containers for reclamation or disposal. For small spill, soak up with absorbent material and place in properly labeled containers for disposal.

Water Spill
This is a water based product and will completely mix/dissolve in water making recovery difficult. Check with local environmental regulatory agencies for reporting requirements.

See SECTION 8 for EXPOSURE CONTROLS and PERSONAL PROTECTION.

SECTION 7: HANDLING & STORAGE

Handling
Avoid contact with eyes, skin and clothing. After handling, always wash hands thoroughly with soap and water. Avoid personal contact with any residue. Do not cut, weld, or reuse empty container.

Storage
Keep container tightly closed when not in use. Do not store near strong acids, bases, or oxidizers. Do not store in direct sunlight. Avoid storing above 120°F (49°C).
SECTION 8: EXPOSURE CONTROLS and PERSONAL PROTECTION

Engineering Controls
Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits.

Personal Protection

**Inhalation:** A respiratory protection program that meets OSHA’s 29 CFR 1910.134 or ANSI Z88.2 requirements must be followed whenever workplace conditions warrant respirator use. Use of an organic vapor mask or respirator is recommended.

**Skin:** Wear chemical resistant gloves such as: rubber, nitrile, neoprene, or latex when skin contact is possible. Protective clothing including gloves, apron, sleeves, boots, head and face protection should be worn depending on how the product is used. PPE should be cleaned thoroughly after each use.

**Eyes:** Penetone recommends always wearing safety glasses as a minimum in any workplace. Conditions may warrant the use of chemical goggles and possibly a face shield. Consult your standard operating procedure or safety professional for advice. Use protective eye and face devices that comply with ANSI Z87.1-1987.

Additional Remarks
Selection of appropriate personal protective equipment should be based on an evaluation of the performance characteristics of the protective equipment relative to the task(s) to be performed, conditions present, duration of use, and the hazards and/or potential hazards that may be encountered during use.

**Occupational Exposure Limits**

<table>
<thead>
<tr>
<th>Component Name</th>
<th>Source</th>
<th>Value</th>
<th>Type</th>
<th>Notation</th>
</tr>
</thead>
<tbody>
<tr>
<td>No OELs have been established for any of the components</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

SECTION 9: PHYSICAL & CHEMICAL PROPERTIES

**Appearance:** Clear blue liquid

**Odor:** mild vinegar

**Odor Threshold:** not determined

**pH:** 7-9

**Melting Point / Freezing:** about 10°F

**Boiling Point / Boiling Point Range:** about 220°F

**Flash Point:** not applicable

**Evaporation Rate:** equal to water

**Flammability:** not applicable

**Lower Flammable Limit:** not applicable

**Upper Flammable Limit:** not applicable

**Explosive Properties:** not applicable

**Vapor Pressure:** equal to water

**Relative Vapor Density:** equal to water

**Relative Density:** 1.28

**Solubility (Water):** soluble

**Partition Coefficient (K<sub>ow</sub>):** not determined

**Auto-ignition temperature:** not applicable

**Decomposition temperature:** not determined

**Viscosity:** less than 5 centipoises at room temperature
SECTION 10: STABILITY & REACTIVITY

Reactivity
Product is is essentially neutral. Addition of strong acids and strong bases will generate heat and may cause splattering.

Chemical Stability
Stable.

Hazardous Reactions
None.

Conditions to Avoid
None.

Incompatible Materials
Strong acids, bases, oxidizers.

Hazardous Decomposition Products
Oxides of carbon when taken to dryness and burned.

SECTION 11: TOXICOLOGICAL INFORMATION

Product Summary
Product is nontoxic and non-irritating to skin and eyes.

Acute Toxicity:
Dermal: no data
Inhalation: no data
Oral: LD50 > 6,000 mg/kg rat (estimated using additivity formula)

Skin Corrosion/Irritation
Non-irritating. Based upon component data.

Serious Eye Damage/Irritation
Non-irritating. Based upon component data.

Sensitization - Respiratory or Skin
No data

Germ Cell Mutagenicity
No data

Carcinogenicity
No component is listed by ACGIH, IARC, or NTP as a carcinogen.

Reproductive Toxicity
No data

Specific Target Organ Effects - Single Exposure
No data

Specific Target Organ Effects - Repeated or Prolonged Exposure
No data
Aspiration Hazard
Product does not present an aspiration hazard. Based upon component data.

SECTION 12: ECOLOGICAL INFORMATION

Product Summary
Product is non toxic to all aquatic organisms.

Acute Toxicity
LC/EC > 1,800 mg/l for vertebrate, invertebrates, and algae (estimated from additivity formula)

Persistence and Degradability
Product is readily degradable

Bioaccumulative Potential
Based upon degradability, not expected to bioaccumulate.

Mobility in soil
Stays in water, does not adsorb onto soil.

Other Adverse Effects
None

SECTION 13: DISPOSAL CONSIDERATIONS

Product is a nonhazardous under RCRA definitions. Dispose of contents/container in accordance with all applicable federal, state, and local regulations.

Note: Contaminated product, soil, water, container residues and spill cleanup materials may be hazardous wastes. Appropriate hazardous waste designation is the responsibility of the user.

SECTION 14: TRANSPORT INFORMATION

ID No.: Not applicable, nonhazardous material
Proper Shipping Name: Not applicable
Hazard Class: Not applicable
Packing Group: Not applicable
Label: None
Marine Pollutant: Not applicable
RQ: None
Special Precautions: None

SECTION 15: REGULATORY INFORMATION

TSCA
The ingredients in this product are listed on the TSCA inventory.

RCRA HAZARD CLASS
Nonhazardous waste

SARA 311/312 REPORTABLE HAZARD CATEGORIES: Immediate (Acute) Health Fire
REPORTING REQUIREMENTS (all quantities in pounds)

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS / 313 Code</th>
<th>Section 302 (EHS) TPQ</th>
<th>Section 304 EHS RQ</th>
<th>CERCLA RQ (1)</th>
<th>Section 313</th>
<th>CAA 112(r) TQ</th>
<th>CWA / OPA</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>No components subject to reporting requirements</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

NEW JERSEY RIGHT-TO-KNOW INFORMATION
This product contains water (CAS# 7732-18-5) and potassium acetate (CAS# 127-08-2).

CALIFORNIA PROPOSITION 65 INFORMATION
This product does not contain any chemicals recognized by the state of California to cause cancer and/or birth defects or reproductive harm.

SCAQMD INFORMATION
Is there a photochemically reactive material present? No
What is the % by volume of photochemically reactive material? 0
What is the VOC content? 0
What is the vapor pressure of VOC's? 0

SECTION 16: OTHER INFORMATION

REVISION SUMMARY
Change in Section 1

SUPERSEDES ISSUE DATE
April 1, 2015

HAZARD RATING SYSTEMS:

<table>
<thead>
<tr>
<th>HMIS</th>
<th>NFPA</th>
<th>KEY</th>
</tr>
</thead>
<tbody>
<tr>
<td>HEALTH</td>
<td>1</td>
<td>1 = Severe</td>
</tr>
<tr>
<td>FLAMMABILITY</td>
<td>0</td>
<td>3 = Serious</td>
</tr>
<tr>
<td>REACTIVITY</td>
<td>0</td>
<td>2 = Moderate</td>
</tr>
<tr>
<td>B</td>
<td>1 = Slight</td>
<td></td>
</tr>
<tr>
<td>0 = Minimal</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

FOR ADDITIONAL PRODUCT INFORMATION, CONTACT YOUR SALES ENGINEER
FOR ADDITIONAL HEALTH/SAFETY INFORMATION, CALL 201-567-3000

THE INFORMATION PRESENTED HEREIN HAS BEEN COMPILED FROM SOURCES CONSIDERED TO BE DEPENDABLE AND ACCURATE TO THE BEST OF PENETONE'S KNOWLEDGE. THE INFORMATION RELATES TO THIS SPECIFIC MATERIAL. IT MAY NOT BE VALID FOR THIS MATERIAL IF USED IN COMBINATION WITH ANY OTHER MATERIALS OR IN ANY PROCESS. IT IS THE USER'S RESPONSIBILITY TO SATISFY ONESELF AS TO THE SUITABILITY AND COMPLETENESS OF THIS INFORMATION FOR HIS OWN PARTICULAR USE.