SECTION 1: IDENTIFICATION

Product name: DE-ICER RTU-60 PG
Recommended use: Melting ice and snow
Physical Description: Clear yellow liquid with sweet odor
Generic Ingredients: Propylene glycol, water, and 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:
Health: Eye irritation: 2B
Physical: not classified

WARNING!
Causes Eye Irritation.

Precautions:
Prevention:
Wash hands and exposed skin thoroughly after handling.
Response:
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; Get medical advice/attention.

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>Propylene glycol</td>
<td>57-55-6</td>
<td>60</td>
</tr>
<tr>
<td>Water</td>
<td>7732-18-5</td>
<td>40</td>
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</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 work-place exposure routes will be skin contact or inhalation. For both, no significant effects are anticipated.

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. NFPA Class: NFPA class
Flash Point: None-to-boil
Autoignition Temperature: not determined
Lower Flammable Limit: Not determined Upper Flammable Limit: Not determined

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

Extinguishing Media
Suitable: SMALL FIRE: Use dry chemical, carbon dioxide (CO₂), water spray or regular foam. LARGE FIRE: water spray, water fog, or foam.

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 and burned.

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>
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</tbody>
</table>

SECTION 9: PHYSICAL & CHEMICAL PROPERTIES

Appearance: clear yellow liquid
Odor: sweet
Odor Threshold: not determined
pH: 10-11
Melting Point / Freezing: <-40°F
Boiling Point / Boiling Point Range: >212°F
Flash Point: none to boil
Evaporation Rate: similar to water
Flammability: not applicable
Lower Flammable Limit: not determined
Upper Flammable Limit: not determined
Explosive Properties: not applicable
Vapor Pressure: equal to water
Relative Vapor Density: equal to water
Relative Density: 1.075
Solubility (Water): soluble
Partition Coefficient ($K_{ow}$): not determined
Auto-ignition temperature: not determined
Decomposition temperature: not determined
Viscosity: 50-100 centipoise at room temperature

SECTION 10: STABILITY & REACTIVITY

Reactivity
Product is not reactive.

Chemical Stability
Product is stable.

Hazardous Reactions
None known.

Conditions to Avoid
Keep away from strong acids, bases, and oxidizers.

Incompatible Materials
Strong acids, bases, and oxidizers.

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

SECTION 11: TOXICOLOGICAL INFORMATION

Product Summary
Product is nontoxic by all routes of exposure. Product may produce slight eye irritations.

Acute Toxicity:
- Dermal: > 3,000 mg/kg rabbit (estimated using additivity formula)
- Inhalation: > 500 mg/l rabbit 2h aerosol, no deaths (estimated using additivity formula)
- Oral: >10,000 mg/l rat (estimated using additivity formula)

Skin Corrosion/Irritation
No data available. Expected to be nonirritating based on component data.

Serious Eye Damage/Irritation
No data available. Expected to be slightly irritating based on component data.

Sensitization - Respiratory or Skin
No data available. Not expected to be a skin sensitizer based on component data.

Germ Cell Mutagenicity
No data available. Not expected to be a germ cell mutagen based on component data.
Carcinogenicity
No component is listed by ACGIH, IARC, or NTP as a carcinogen.

Reproductive / Developmental Toxicity
No data available. Not expected to be a reproductive or developmental toxicant based on component data.

Specific Target Organ Effects - Single Exposure
No data available.

Specific Target Organ Effects - Repeated or Prolonged Exposure
No data available. In rare cases, repeated excessive exposure to propylene glycol has cause central nervous system effects.

Aspiration Hazard
No data available. Not anticipated to be an aspiration hazard based upon component data.

SECTION 12: ECOLOGICAL INFORMATION

Product Summary
Product is nontoxic to aquatic organisms.

Ecotoxicity
LC50/EC50/IC50 > 10,000 for propylene glycol for vertebrates, invertebrates, algae, and bacteria.

Persistence and Degradability
Product is biodegradable. Propylene glycol has 81% 28d biodegradability (OECD 301F) and 96% 64d biodegradability (OECD 306).

Bioaccumulative Potential
Bioaccumulation potential is low

Mobility in soil
Soil mobility is high

Other Adverse Effects
None known.

SECTION 13: DISPOSAL CONSIDERATIONS

Product is a nonhazardous waste. 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.: nonhazardous (non regulated) material
Proper Shipping Name: not applicable
Hazard Class: none
Packing Group: none
Label: none
Marine Pollutant: No
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

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>
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</thead>
<tbody>
<tr>
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</tr>
</tbody>
</table>

No component subject to reporting requirements

NEW JERSEY RIGHT-TO-KNOW INFORMATION
This product contains propylene glycol (CAS# 57-55-6) and water (CAS# 7732-18-5).

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? 640 g/l
What is the vapor pressure of VOC's? Less than 0.1 mm Hg @ 20°C. Record keeping requirements for applications listed under Rule 1171 may not apply

SECTION 16: OTHER INFORMATION

REVISION SUMMARY
Change in Section 1

SUPERSEDES ISSUE DATE
October 2, 2018

HAZARD RATING SYSTEMS:

<table>
<thead>
<tr>
<th>HEALTH</th>
<th>HMIS</th>
<th>NFPA</th>
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</thead>
<tbody>
<tr>
<td>FLAMMABILITY</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>REACTIVITY</td>
<td>0</td>
<td>B</td>
</tr>
</tbody>
</table>

KEY
4 = Severe
3 = Serious
2 = Moderate
1 = Slight
0 = Minimal

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

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