



DE-ICER™ RTU-60 PG

Page: 1 of 6
Date Prepared: April 1, 2015
MSDS No.: 4110

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
700 Gotham Parkway
Carlstadt, NJ 07072
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:	
<u>Prevention:</u> Wash hands and exposed skin thoroughly after handling.	<u>Response:</u> <i>If in eyes:</i> 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

Chemical Name	CAS#	Concentration Wt% (1)
Propylene glycol	57-55-6	60
Water	7732-18-5	40

(1) Exact percentages being withheld under trade secret provision of OSHA 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.



DE-ICER™ RTU-60 PG

Page: 2 of 6
Date Prepared: April 1, 2015
MSDS No.: 4110

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.



DE-ICER™ RTU-60 PG

Page: 3 of 6
Date Prepared: April 1, 2015
MSDS No.: 4110

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

<u>Component Name</u>	<u>Source</u>	<u>Value</u>	<u>Type</u>	<u>Notation</u>
No OELs have been established for any of the components				

SECTION 9: PHYSICAL & CHEMICAL PROPERTIES

Appearance: clear yellow liquid

Odor: sweet

Odor Threshold: not determined

pH: 10-11

Melting Point / Freezing: -20°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



DE-ICER™ RTU-60 PG

Page: 4 of 6
Date Prepared: April 1, 2015
MSDS No.: 4110

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.



DE-ICER™ RTU-60 PG

Page: 5 of 6
Date Prepared: April 1, 2015
MSDS No.: 4110

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



DE-ICER™ RTU-60 PG

Page: 6 of 6
 Date Prepared: April 1, 2015
 MSDS No.: 4110

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

REPORTING REQUIREMENTS (all quantities in pounds)

Component	CAS / 313 Code	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ (1)	Section 313	CAA 112(r) TQ	CWA / OPA
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
 New GHS format

SUPERSEDES ISSUE DATE
 Feb ruary 24, 2004

HAZARD RATING SYSTEMS:

	<u>HMIS</u>	<u>NFPA</u>
HEALTH	1	1
FLAMMABILITY	0	0
REACTIVITY	0	0
	B	

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

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.