



DE-ICER™ 821

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Date Prepared: September 25, 2019
SDS No.: 3180

SECTION 1: IDENTIFICATION

Product name: DE-ICER 821

Recommended use: Ice and snow melter

Physical Description: Granular white pellets with slight ammonia odor

Generic Ingredients: Urea

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: Skin irritation: 2 Eye irritation: 2A	Physical: not classified
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WARNING!

Causes Skin Irritation.
Causes Severe Eye Irritation.



Precautions	
<p><u>Prevention:</u> Wear protective gloves, clothing, eye protection, and face protection. Wash hands and exposed skin thoroughly after handling.</p> <p><u>Response:</u> <i>If on skin:</i> Wash with plenty of water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse.</p>	<p><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.</p>

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS#	Concentration Wt%
Urea	57-13-6	100

SECTION 4: FIRST-AID MEASURES

General Description of Symptoms & First-Aid Measures

Most likely work-place exposure routes will be *skin contact and eye contact*. Repeated or prolonged contact may cause reddening, itching and inflammation.

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.



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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: Not applicable

Autoignition Temperature: Not applicable

Lower Flammable Limit: Not applicable **Upper Flammable Limit:** Not applicable

Specific Hazards

Product is a powder 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 and nitrogen. Heating above 270°F generates biuret, ammonia, and nitrogen oxides.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Land Spill

Sweep up material. Put all material into proper waste disposal container with lid tightly covered. Rinse area with plenty of water.

Water Spill

Urea will completely mix/dissolve in water making recovery difficult. Undissolved pellets should be recovered if possible. Localized high concentration of product may cause fish kills, but no persistent or long term effects are anticipated. Check with local environmental regulatory agencies for reporting requirements

See SECTION 8 for EXPOSURE CONTROLS and PERSONAL PROTECTION.



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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 in direct sunlight. Avoid storing above 120°F (49°C). Do not store near strong acids, bases, or oxidizers. Avoid storing near nitrates. Do not store near sodium or calcium hypochlorite (bleach.)

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

Component Name	Source	Value	Type	Notation
Particulate, n.o.s. (respirable)	ACGIH	3 mg/m ³	TWA	Appendix B see Appendix D
	NIOSH	---		
	OSHA Z1	5 mg/m ³	TWA	
Particulate, n.o.s. (total)	ACGIH	10 mg/m ³	TWA	Appendix B see Appendix D
	NIOSH	---		
	OSHA Z1	15 mg/m ³		

No OELs have been established for any of the components

SECTION 9: PHYSICAL & CHEMICAL PROPERTIES

Appearance: granular white pellets

Odor: slight ammonia

Odor Threshold: not determined

pH: not applicable

Melting Point / Freezing: 271°F

Boiling Point / Boiling Point Range: 275°F (decomposes)



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Flash Point: not applicable
Evaporation Rate: not applicable
Flammability: not applicable
Lower Flammable Limit: not applicable
Upper Flammable Limit: not applicable
Explosive Properties: not applicable
Vapor Pressure: not applicable
Relative Vapor Density: not applicable
Relative Density: not applicable
Solubility (Water): not applicable
Partition Coefficient (K_{ow}): not applicable
Auto-ignition temperature: not applicable
Decomposition temperature: 275°F
Viscosity: not applicable

SECTION 10: STABILITY & REACTIVITY

Reactivity

Stable. Will not undergo hazardous polymerization.

Chemical Stability

Stable. Will not undergo hazardous polymerization.

Hazardous Reactions

Can react with sodium or calcium hypochlorite (bleach) to form explosive nitrogen trichloride.

Conditions to Avoid

Do not store near strong acids, bases, or oxidizers. Avoid storing near nitrates. Do not store near sodium or calcium hypochlorite (bleach).

Incompatible Materials

Do not store near strong acids, bases, or oxidizers. Avoid storing near nitrates. Do not store near sodium or calcium hypochlorite (bleach).

Hazardous Decomposition Products

Smoke, fumes, and oxides of carbon and nitrogen. Heating above 270°F generates biuret, ammonia, and nitrogen oxides.

SECTION 11: TOXICOLOGICAL INFORMATION

Product Summary

Product is nontoxic.

Acute Toxicity:

Dermal: no data available

Inhalation: no data available

Oral: LD50 14,300-15,000 mg/kg rat: LD50 = 11,500-13,000 mg/kg mouse

Skin Corrosion/Irritation

10% solution not irritating: mouse



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Serious Eye Damage/Irritation

50% solution not irritating: rabbit

Repeated Dose Toxicity

Rat 24 weeks dermal NOAEL 40% in ointment

Sensitization - Respiratory or Skin

Not a skin sensitizer.

Germ Cell Mutagenicity

Bacterial reverse mutation assay - negative. Chromosomal aberration test, Chinese hamster, positive (very high dose; mouse, positive (very high dose). Bone marrow cytogenetic test, mouse, positive (very high dose).

Carcinogenicity

Not listed as a carcinogen by ACGIH, IARC, NTP, or OSHA.

Reproductive / Developmental Toxicity

No toxic effects on mouse gonads up to 6,750 mg/kg/day. No toxic effects on rat gonads up to 2,250 mg/kg/day. Not teratogenic.

Specific Target Organ Effects - Single Exposure

No data available

Specific Target Organ Effects - Repeated or Prolonged Exposure

No data available

Aspiration Hazard

Not an aspiration hazard

Other Information

Despite extensive medical use, no significant side effects on humans have been noted.

SECTION 12: ECOLOGICAL INFORMATION

Product Summary

Product is nontoxic to aquatic organisms.

Ecotoxicity

LC50 > 9,100 mg/l *Barillius barna* 96h

EC50 > 10,000 mg/l *Daphnia magna* 24h

TT > 10,000 mg/l *Scenadesmus quadricauda* 196 hr cell multiplication inhibition test

Applications of nitrogenous fertilizers to grassland for long periods may have deleterious effects on earthworms in the absence of liming.

Persistence and Degradability

Ultimately biodegradable (OECDTG 302B) 93-98% (SCAS 24 hr)

Bioaccumulative Potential

Low

Mobility in soil

No data available

Other Adverse Effects

Since urea is a fertilizer, it may promote eutrophication in waterways.



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SECTION 13: DISPOSAL CONSIDERATIONS

Product is a nonhazardous waste 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: No
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 urea (CAS# 57-13-6)

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? Not applicable



SAFETY DATA SHEET

Penetone® Corporation, 125 Kingsland Ave., Clifton, NJ 07014

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SECTION 16: OTHER INFORMATION

REVISION SUMMARY

Change in Section 1

SUPERSEDES ISSUE DATE

April 1, 2015

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

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