SAFETY DATA SHEET
Penetone® Corporation, 125 Kingsland Ave., Clifton, NJ 07014

DE-ICER™ 818

Date Prepared: September 25, 2019
SDS No.: 6450

SECTION 1: IDENTIFICATION

Product name: DE-ICER 818
Recommended use: Anti-icing fluid
Physical Description: Clear blue liquid with oily odor
Generic Ingredients: Naphthenic hydrocarbon, silicone, 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:
Aspiration hazard: 1
Eye irritation: 2B

Physical: not classified

DANGER!
May Be Fatal If Swallowed and Enters Airways.
Causes Eye Irritation

Precautionary Statements:

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.

If swallowed: Immediately call a poison center, doctor, emergency room, or 911. Do NOT induce vomiting.

Storage: Store locked up.

Disposal: Dispose of contents/container in accordance with local, regional, and national regulations (see Sections 13 and 15 of SDS for disposal and reporting requirements).

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>Naphthenic petroleum distillate</td>
<td>64742-53-6</td>
<td>&gt;90</td>
</tr>
<tr>
<td>Alkyl/aryl modified polysiloxane</td>
<td>68037-76-3</td>
<td>&lt;10</td>
</tr>
</tbody>
</table>

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

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 skin contact, typically no effects will be observed. Frequent or prolonged contact may defat and dry the skin.
Potential mild irritation may result in more sensitive individuals or ones with skin conditions.

*Inhalation* exposure may produce varied effects, particularly if exposure occurs above the recommended workplace exposure limits (see SECTION 8). Typical symptoms would include headaches, dizziness, and drowsiness. In extreme cases, unconsciousness and other central nervous effects may occur.

**Eyes**

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

**Ingestion**

If swallowed: Immediately call a poison center, doctor, physician or other competent medical authority. Product presents an aspiration hazard. DO NOT INDUCE VOMITING.

**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: Not classified

Flash Point: 230°F TCC

Autoignition Temperature: > 550°F

Lower Flammable Limit: not determined  Upper Flammable Limit: not determined

**Specific Hazards**

Combustible liquid. Can form combustible mixtures at or above the flash point.

**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: Do not use solid water stream as this may spread fire.

**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: Mist/spray can burn at temperatures below flash point. 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 silicon when burned.
SECTION 6: ACCIDENTAL RELEASE MEASURES

Land Spill
Eliminate sources of ignition. Do not touch or walk through spilled material. 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
Product is a hydrocarbon oil, lighter than water and not soluble in water. Product will float. Remove product from water surface by skimming or with suitable absorbents. Put into properly labeled containers for reclamation or disposal. If allowed by local environmental regulatory agencies, you may use a suitable dispersant. Check with local environmental regulatory agencies for reporting requirements.

See SECTION 8 for EXPOSURE CONTROLS and PERSONAL PROTECTION.

SECTION 7: HANDLING & STORAGE

Handling
Do not handle near heat, sparks, or flame. Material can accumulate static charges which may cause an electrical spark. When the material is handled in bulk, an electrical spark could ignite any flammable vapors from liquids or residues that may be present. Use proper bonding and/or ground procedures. Avoid contact with oxidizing agents. Use only with adequate ventilation/personal protection (SEE section 8). Avoid contact with eyes, skin and clothing. After handling, always wash hands thoroughly with soap and water. Avoid personal contact with any residue. Dispose of empty containers with care. Empty containers can contain flammable residue and explosive vapors. Do not cut, weld, or reuse empty container.

Storage
Store in a well-ventilated place. Keep container tightly closed. Open slowly in order to control possible pressure release. Keep cool. Store locked up. Do not store near heat, sparks, open flame, or other ignition sources. Do not store near strong oxidizing agents. 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.
SECTION 9: PHYSICAL & CHEMICAL PROPERTIES

Appearance: clear blue liquid
Odor: oily
Odor Threshold: not determined
pH: not applicable
Melting Point / Freezing: less than -40°F
Boiling Point / Boiling Point Range: about 350°F
Flash Point: 230°F TCC
Evaporation Rate: <0.01 (butyl acetate =1)
Flammability: not applicable
Lower Flammable Limit: not determined
Upper Flammable Limit: not determined
Explosive Properties: not applicable
Vapor Pressure: less than 0.1 mm Hg @ 20°C (68°F)
Relative Vapor Density: not available
Relative Density: 0.88
Solubility (Water): insoluble
Partition Coefficient (K_{ow}): not determined
Auto-ignition temperature: > 550°F
Decomposition temperature: not determined
Viscosity: 5-10 cSt at room temperature

SECTION 10: STABILITY & REACTIVITY

Reactivity
Not reactive.

Chemical Stability
Stable under normal conditions.

Hazardous Reactions
No hazardous reactions or under normal storage conditions. Hazardous polymerization will not occur.

Conditions to Avoid
Product is a combustible liquid. Do not store near sources of heat, sparks, open flame, or other ignition sources.

Incompatible Materials
Strong oxidizing agents.

Hazardous Decomposition Products
Smoke, fumes, and oxides of carbon and silicon when burned.
SECTION 11: TOXICOLOGICAL INFORMATION

Product Summary
Product is nontoxic.

Acute Toxicity:
- **Dermal**: LD50 > 2,000 mg/kg rabbit based upon component data
- **Inhalation**: no data available
- **Oral**: LD50 > 2,000 mg/kg rabbit based upon component data

Skin Corrosion/Irritation
Product is nonirritating based upon component data. Frequent or prolonged contact may defat and dry the skin. Potential mild irritation may result in more sensitive individuals or ones with skin conditions.

Serious Eye Damage/Irritation
May be irritating to the eyes based upon component data.

Sensitization - Respiratory or Skin
Not expected to be a respiratory or skin sensitizer. Based on component data.

Germ Cell Mutagenicity
No data available.

Carcinogenicity
Components not considered to be carcinogens by IARC, ACGIH, NTP, or OSHA. ACGIH assigns highly refined mineral oil as A4: not classifiable as a human carcinogen.

Reproductive Toxicity
Not expected to be a reproductive toxicant based upon component data.

Specific Target Organ Effects - Single Exposure
Not classified. Based upon component data.

Specific Target Organ Effects - Repeated or Prolonged Exposure
Not classified. Based upon component data.

Aspiration Hazard
Based upon component data, if swallowed, may pose a lung aspiration hazard during vomiting. Lung aspiration may result in chemical pneumonitis, pulmonary edema, and damage to lung tissue or death.

SECTION 12: ECOLOGICAL INFORMATION

Product Summary
Product will have minimal impact on aquatic organisms.

Ecotoxicity
Not expected to be harmful to aquatic organisms. Not expected to demonstrate chronic toxicity to aquatic organisms. Based upon component data.

Persistence and Degradability
Not inherently biodegradable. Based upon component data.

Bioaccumulative Potential
Bioaccumulation is unlikely to be significant because of the low water solubility of the components.
Mobility in soil
Not data available

Other Adverse Effects
None known

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
Product is a 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</th>
<th>Section 313</th>
<th>CAA 112(r) TQ</th>
<th>CWA / OPA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product as a whole</td>
<td></td>
<td>(1)</td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

(1) This material is not subject to any special reporting under the requirements of CERCLA. CERCLA petroleum exclusion applies for this product. Contact local authorities to determine if other reporting requirements apply.
(2) This product is classified as an oil under Section 311 of the CWA (40 CFR 110) and the OPA of 1990. Discharge or spills which produce a visible sheen on either surface water, or in waterways/sewers which lead to surface water, must be reported to the National Response Center at 800-424-8802.

NEW JERSEY RIGHT-TO-KNOW INFORMATION
This product contains naphthenic petroleum distillate (CAS# 64742-53-6), and alkyl/aryl modified polysiloxane (CAS# 68037-76-3).
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? Less than 170 g/l
What is the vapor pressure of VOC’s? Less than 0.1 mm Hg @ 20°C (68°F) Record keeping requirements for applications listed under Rule 1171 may not apply.

SECTION 16: OTHER INFORMATION

HAZARD RATING SYSTEMS:

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

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

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