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

FOAM DEPRESSANT 631

SECTION 1: IDENTIFICATION

Product name: FOAM DEPRESSANT 631
Recommended use: General purpose defoamer
Physical Description: Opaque white liquid with a mild odor
Generic Ingredients: Water and silicone fluid

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>Skin irritation: 1</td>
<td>not classified</td>
</tr>
<tr>
<td>Eye irritation: 1</td>
<td></td>
</tr>
</tbody>
</table>

WARNING!
Toxic to Aquatic Life

Precautionary Statements:

Prevention:
Wear protective gloves, clothing, eye protection, and face protection.
Wash hands and exposed skin thoroughly after handling.
Product spills are extremely slippery: Prevent foot traffic in area of spill
Prevent spills from contaminating natural waterways.

Response:
If on skin: Wash with plenty of water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse.

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 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.

Storage:
Store locked up. Store in a well-ventilated place. Keep cool. Keep container tightly closed.

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>
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<tbody>
<tr>
<td>Water</td>
<td>7732-18-5</td>
<td>75-85</td>
</tr>
<tr>
<td>Silicone fluid compound</td>
<td>not available</td>
<td>15-25</td>
</tr>
<tr>
<td>Formaldehyde</td>
<td>50-00-0</td>
<td>&lt;0.1</td>
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</table>

(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 skin contact, typically no immediate effects will be observed. A slight tingling sensation might be felt some time after exposure. Slight reddening or minor irritation could also develop if product is not quickly washed off.

Inhalation of product mists may cause respiratory irritation.

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, particulate silica and oxides of carbon including carbon monoxide when taken to dryness and burned.
SECTION 6: ACCIDENTAL RELEASE MEASURES

Land Spill
Stop leak if you can do it safely. Reclaim as much spilled material as possible and return to original container. Use copious amount of water to flush spill residue to wastewater treatment system. 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
Prevent spills from contaminating natural waterways or municipal sewer systems. Use chemical-resistant spill control socks/booms to minimize spread of spill. 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. Use containment devices to prevent uncontrolled spills. Do not store near strong acids or bases. 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 a general purpose particulate mask or respirator with particulate filter 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>Formaldehyde</td>
<td>OSHA</td>
<td>0.75 ppm</td>
<td>TWA</td>
<td>2 ppm STEL</td>
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</table>

SECTION 9: PHYSICAL & CHEMICAL PROPERTIES
Appearance: opaque white liquid
Odor: mild, sweet
Odor Threshold: not determined
pH: 7.0 - 8.5
Melting Point / Freezing: less than 32°F
Boiling Point / Boiling Point Range: greater than 212°F
Flash Point: none to boil
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: not applicable
Relative Density: 1.00
Solubility (Water): dispersible
Partition Coefficient (K\text{ow}): not determined
Auto-ignition temperature: not applicable
Decomposition temperature: not determined
Viscosity: 1000 to 1500 centipoise at room temperature

SECTION 10: STABILITY & REACTIVITY

Reactivity
This product may react with strong oxidizing materials.

Chemical Stability
Stable.

Hazardous Reactions
None.

Conditions to Avoid
Do not store near strong oxidizing materials.

Incompatible Materials
Strong oxidizing materials.

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

SECTION 11: TOXICOLOGICAL INFORMATION

Product Summary
Based upon ingredient data, product is non-toxic by oral and dermal routes exposure. Prouduct is composed of food grade ingredients. Based upon ingredient information, product is expected to cause mild skin irritation and may cause eye irritation.

Acute Toxicity:
- Dermal: >5,000 mg/kg rabbit (estimated from additivity formula)
- Inhalation: no data available
Oral: > 5,000 mg/kg rat (estimated from additivity formula)

**Skin Corrosion/Irritation**
May cause mild skin irritation. Based upon component data.

**Serious Eye Damage/Irritation**
May cause eye irritation. Based upon component data.

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

**Germ Cell Mutagenicity**
No data available. Not expected to be mutagenic based upon component information.

**Carcinogenicity**
Product contains <0.1% formaldehyde for preservative purposes.

**Developmental/Reproductive Toxicity**
No data available. Product contains <0.1% formaldehyde for preservative purposes. Not expected to be a developmental or reproductive toxin based upon partial component information and comparison to structurally similar compounds.

**Specific Target Organ Effects - Single Exposure**
No data available.

**Specific Target Organ Effects - Repeated or Prolonged Exposure**
No data available.

The nonionic surfactant used in this product exhibited kidney and liver effects in lab animals at high feeding levels over extended periods of time.

**Aspiration Hazard**
Based upon components, product not expected to be aspiration hazard.

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### SECTION 12: ECOLOGICAL INFORMATION

**Product Summary**
Product is expected to be slightly toxic to fish and moderately toxic to aquatic invertebrates. (Acute aquatic toxicity category 3 by European Union classification).

**Ecotoxicity**
Fathead minnow, 96 hr LC50, = > 500 mg/l (estimated using additivity formula)
Daphnia magna, 48 hr EC50, = 1-10 mg/l (estimated using additivity formula)

**Persistence and Degradability**
No specific biodegradability data have been determined for this product. This product would be gradually dispersed and biologically degraded in natural waterways and soil. The organic components are not anticipated to resist natural degradation or bioaccumulate.

**Bioaccumulative Potential**
Product components not considered bioaccumulative

**Mobility in soil**
No soil mobility 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.: None
Proper Shipping Name: Nonhazardous (nonregulated) material
Hazard Class: None
Label: None
Packing Group: 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

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>
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<tbody>
<tr>
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<td></td>
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<td></td>
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</tr>
</tbody>
</table>

no component is subject to reporting requirements

NEW JERSEY RIGHT-TO-KNOW INFORMATION
This product contains water (CAS# 7732-18-5), and silicone fluid compound (CAS# not available).

CALIFORNIA PROPOSITION 65 INFORMATION
This product contains a chemical recognized by the state of California to cause cancer: formaldehyde (CAS# 50-00-0)

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
SECTION 16: OTHER INFORMATION

REVISION SUMMARY
Change in Section 1

SUPERSEDES ISSUE DATE
April 19, 2016

HAZARD RATING SYSTEMS:

<table>
<thead>
<tr>
<th>HMIS</th>
<th>NFPA</th>
<th>KEY</th>
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</thead>
<tbody>
<tr>
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<td>1</td>
</tr>
<tr>
<td>FLAMMABILITY</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>REACTIVITY</td>
<td>B</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1</td>
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<tr>
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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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