SECTION 1: IDENTIFICATION

Product name: PENAIR C-5572 RTU 20%
Recommended use: Aircraft exterior cleaner
Physical Description: Clear light yellow/amber liquid with mild odor
Generic Ingredients: Water and surfactants

Manufacturer: Penetone Corporation
125 Kingsland Ave.
Clifton, NJ 07014
800-631-1652 or 201-567-3000

Business Contact:
Customer Service
800-631-1652 x2300 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: 2</td>
<td>Not classified</td>
</tr>
<tr>
<td>Eye irritation: 2B</td>
<td></td>
</tr>
</tbody>
</table>

WARNING!
Causes Skin and Eye Irritation.

Precautionary Statements:

Prevention:
Wear protective gloves.
Wash hands and exposed skin thoroughly after handling.

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.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS#</th>
<th>Concentration Wt% (1)</th>
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</thead>
<tbody>
<tr>
<td>Water</td>
<td>7732-18-5</td>
<td>80-95</td>
</tr>
<tr>
<td>Alcohols, C₉₋₁₅, ethoxylated</td>
<td>68439-46-3</td>
<td>1-10</td>
</tr>
<tr>
<td>Capramide DEA</td>
<td>136-26-5</td>
<td>1-10</td>
</tr>
</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 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 exposure may produce varied effects. Typical symptoms could include coughing, sneezing, and a tingling sensation in the nose, throat, and lungs.

**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

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**SECTION 5: FIRE FIGHTING MEASURES**

**Flammable Properties**

Classification: Non-flammable

Flash Point: None-to-boil

Autoignition Temperature: Not determined

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, and oxides of carbon and nitrogen when taken to dryness.

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

SECTION 9: PHYSICAL & CHEMICAL PROPERTIES

Appearance: clear light yellow/amber liquid
Odor: mild
Odor Threshold: not determined
pH: 8-9
Melting Point / Freezing: about 32°F
Boiling Point / Boiling Point Range: about 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): water soluble
Partition Coefficient (K\text{ow}): not determined
Auto-ignition temperature: not applicable
Decomposition temperature: not determined
Viscosity: 3-7 centipoise at room temperature

SECTION 10: STABILITY & REACTIVITY

Reactivity
Product is not reactive, but if strong acids or bases are added, heat will be generated which could cause splattering.

Chemical Stability
Stable.

Hazardous Reactions
None.

Conditions to Avoid
Do not store near strong acids or bases.

Incompatible Materials
Strong acids or bases.

Hazardous Decomposition Products
Oxides of carbon and nitrogen 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 of exposure. Based upon ingredient information, product is expected to cause skin irritation and to cause serious eye irritation.

Acute Toxicity:
- Dermal: >10,000 mg/kg rabbit (estimated from additivity formula)
- Inhalation: no data available
- Oral: >10,000 mg/kg rat (estimated from additivity formula)

Skin Corrosion/Irritation
Causes skin irritation. Based upon component data.

Serious Eye Damage/Irritation
Causes 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 partial component information and comparison to structurally similar compounds.

Carcinogenicity
Does not contain components considered carcinogenic. Not expected to be carcinogenic based upon partial component information and comparison to structurally similar compounds.

Developmental/Reproductive Toxicity
No data available. Not expected to be a developmental or reproductive toxin based upon partial component information and comparison to structurally similar compounds.

No effects were seen in male/female rats in a 2 generation reproductive toxicity study of the ethoxylated alcohol surfactant used in this product.

Specific Target Organ Effects - Single Exposure
No data available.

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

For the ethoxylated alcohol surfactant used in this product, repeat dose 90 day oral sub-chronic NOAEL in male/female rats was >500 mg/kg/d and >400 mg/kg/d, while a 90 day dermal sub-chronic NOAEL was >125 mg/kg/d for male/female rats.

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

SECTION 12: ECOLOGICAL INFORMATION

Product Summary
Product is expected to be harmful to fish, aquatic invertebrates, algae, and microorganisms. (Acute aquatic toxicity category 3 by European Union classification).

Ecotoxicity
Fish: LC50 about 85 mg/l (estimated using additivity formula)
Invertebrates: EC50 about 45 mg/l (estimated using additivity formula)
Algae: ErC50 about 50 mg/l (estimated using additivity formula)

Persistence and Degradability
Product components considered readily biodegradable.
Product considered readily biodegradable based upon results for more concentrated form of product which had a 28 day biodegradability of 87.4% (EPA 796.1300).

Bioaccumulative Potential
Product 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

<table>
<thead>
<tr>
<th>ID No.:</th>
<th>Not applicable, nonhazardous material</th>
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<tbody>
<tr>
<td>Proper Shipping Name:</td>
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<tr>
<td>Hazard Class:</td>
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<tr>
<td>Packing Group:</td>
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<td>Label:</td>
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<tr>
<td>Marine Pollutant:</td>
<td>No</td>
</tr>
<tr>
<td>RQ:</td>
<td>None</td>
</tr>
<tr>
<td>Special Precautions:</td>
<td>None</td>
</tr>
</tbody>
</table>

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

*no component is subject to reporting requirements*

**NEW JERSEY RIGHT-TO-KNOW INFORMATION**

This product contains water (CAS# 7732-18-5), C₁₀₋₁₂ alcohol ethoxylates (CAS# 66455-15-0), and capric diethanolamide (CAS# 136-26-5).

**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? 0
What is the vapor pressure of VOC’s? Not applicable
SECTION 16: OTHER INFORMATION

REVISION SUMMARY
Changes to header, section 1

SUPERSEDES ISSUE DATE
January 19, 2015

HAZARD RATING SYSTEMS:

<table>
<thead>
<tr>
<th>HMIS</th>
<th>NFPA</th>
<th>KEY</th>
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</thead>
<tbody>
<tr>
<td>HEALTH</td>
<td>1</td>
<td>4 = Severe</td>
</tr>
<tr>
<td>FLAMMABILITY</td>
<td>0</td>
<td>3 = Serious</td>
</tr>
<tr>
<td>REACTIVITY</td>
<td>B</td>
<td>2 = Moderate</td>
</tr>
<tr>
<td></td>
<td>0</td>
<td>1 = Slight</td>
</tr>
<tr>
<td></td>
<td></td>
<td>0 = Minimal</td>
</tr>
</tbody>
</table>

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

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