



# SAFETY DATA SHEET

Penetone® Corporation, 700 Gotham Parkway, Carlstadt, NJ 07072  
CAGE 56883

## PENAIR® C-5572

MIL-PRF-85770E Type II

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Date Prepared: January 19, 2015

MSDS No.: 4891

### SECTION 1: IDENTIFICATION

**Product name:** PENAIR C-5572

**Recommended use:** Aircraft exterior cleaner

**Physical Description:** Clear yellow/amber liquid with mild odor

**Generic Ingredients:** Water and surfactants

**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:**

<b>Health:</b> Skin irritation: 2 Eye irritation: 2A	<b>Physical:</b> not classified
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**WARNING!**

Causes Skin Irritation.  
Causes Serious Eye Irritation.



<b>Precautionary Statements:</b>	
<b>Prevention:</b> Wear protective gloves, clothing, eye protection, and face protection. Wash hands and exposed skin thoroughly after handling.	<b>Response:</b> <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. <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)
Water	7732-18-5	80-95
Alcohols, C <sub>9-11</sub> , ethoxylated	68439-46-3	10-20
Capramide DEA	136-26-5	1-10

(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.



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*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

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

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## SECTION 6: ACCIDENTAL RELEASE MEASURES

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#### 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.



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### 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 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

<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/amber liquid

**Odor:** mild

**Odor Threshold:** not determined

**pH:** about 9

**Melting Point / Freezing:** about 32°F

**Boiling Point / Boiling Point Range:** about 212°F

**Flash Point:** none to boil



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**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:** 1.02

**Solubility (Water):** water soluble

**Partition Coefficient ( $K_{ow}$ ):** not determined

**Auto-ignition temperature:** not applicable

**Decomposition temperature:** not determined

**Viscosity:** 10-30 centipoise at room temperature

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## SECTION 10: STABILITY & REACTIVITY

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### 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.

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## SECTION 11: TOXICOLOGICAL INFORMATION

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### Product Summary

Based upon ingredient data, product is non-toxic by oral and dermal routes exposure. Based upon ingredient information, product is expected to cause skin irritation and to cause serious eye irritation.

### Acute Toxicity:

**Dermal:** >9,000 mg/kg rabbit (estimated from additivity formula)

**Inhalation:** no data available

**Oral:** >6,000 mg/kg rat (estimated from additivity formula)

### Skin Corrosion/Irritation

Causes skin irritation. Based upon component data.

### Serious Eye Damage/Irritation

Causes serious eye irritation. Based upon component data.



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#### 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.

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.

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## SECTION 12: ECOLOGICAL INFORMATION

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#### Product Summary

Product is expected to be harmful to fish, aquatic invertebrates, algae, and microorganisms. (Acute aquatic toxicity category 2 by European Union classification).

#### Ecotoxicity

Fish: LC50 about 30 mg/l (estimated using additivity formula)

Invertebrates: EC50 about 19 mg/l (estimated using additivity formula)

Algae: ErC50 about 20 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.



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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	Section 313	CAA 112(r) TQ	CWA / OPA
no component is subject to reporting requirements							

#### NEW JERSEY RIGHT-TO-KNOW INFORMATION

This product contains water (CAS# 7732-18-5), C<sub>10-12</sub> 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



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## SECTION 16: OTHER INFORMATION

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### REVISION SUMMARY

New GHS format

### SUPERSEDES ISSUE DATE

May 14, 2012

### 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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