



SAFETY DATA SHEET

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

PENAIR® C5575

MIL-PRF-85570E Type V

Page: 1 of 7

Date Prepared: January 16, 2018

MSDS No.: 2330

SECTION 1: IDENTIFICATION

Product name: PENAIR C5575

Recommended use: Exterior aircraft cleaner, gel type degreaser

Physical Description: Clear to hazy, yellow-orange viscous liquid with a mild citrus odor

Generic Ingredients: Water, aliphatic and terpene hydrocarbons, surfactants, coupling agents

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:

Health: Skin irritation: 2 Eye irritation: 2A	Skin sensitization: 1 Physical: Flammable liquid: 4
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WARNING!

Combustible Liquid.
Causes Skin Irritation.
Causes Serious Eye Irritation.
May Cause an Allergic Skin Reaction.



Precautionary Statements:	
<u>Prevention:</u> Keep away from flames and hot surfaces.—No smoking. Avoid breathing fumes, vapors, or mists if inhalable mists occur during use. Use only outdoors or in a well-ventilated area. Wear protective gloves, clothing, eye protection, and face protection. Wash hands and exposed skin thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace.	or rash 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.
<u>Response:</u> <i>In case of fire:</i> Use dry chemical, carbon dioxide, water spray, water fog, or foam. Do not use solid water stream as this may spread the fire. <i>If on skin:</i> Wash with plenty of water. If skin irritation .	<u>Storage:</u> Store in a well ventilated place. Keep cool.
	<u>Disposal:</u> 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

Chemical Name	CAS#	Concentration Wt% (1)
Water	7732-18-5	40-60
Alcohols, C9-11, ethoxylated	68439-46-3	20-40
Dipropylene glycol	25265-71-8	5-15
d-Limonene	5989-27-5	1-10



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Page: 2 of 7

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Capryloamphopropionate	68815-55-4	1-10
Aliphatic petroleum naphtha	64742-47-8	1-10
Benzotriazole	95-14-7	1-10
Sodium bicarbonate	144-55-8	1-10

(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. In certain sensitive individuals, a skin rash may develop.

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 or a rash occurs: Get medical advice or attention.

Special Treatment / Other

None

SECTION 5: FIRE FIGHTING MEASURES

Flammable Properties

Classification: 4

Flash Point: 145°F

Autoignition Temperature: Not determined

Lower Flammable Limit: Not determined **Upper Flammable Limit:** Not determined

Specific Hazards

Combustible liquid. Can form flammable mixtures at or above the flash point. Although the product is combustible, it is water based and water dilutable and will self extinguish with addition of water.

Extinguishing Media

Use extinguishing agents appropriate for controlling surrounding fire.

Unsuitable: None.



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Penetone® Corporation, 700 Gotham Parkway, Carlstadt, NJ 07072
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MIL-PRF-85570E Type V

Page: 3 of 7

Date Prepared: January 16, 2018

MSDS No.: 2330

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.

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

Store in a well ventilated place. Keep cool. 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



SAFETY DATA SHEET

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PENAIR® C5575

MIL-PRF-85570E Type V

Page: 4 of 7

Date Prepared: January 16, 2018

MSDS No.: 2330

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>
d-Limonene (1)	ACGIH	20 ppm	TWA	dsen; A4
	NIOSH	100 ppm	TWA	
Aliphatic petroleum naphtha	OSHA Z1	100 ppm	PEL	Appendix H
	ACGIH	1200 mg/m ³	TWA	
	NIOSH	350 mg/m ³	TWA	
	OSHA Z1	1800 mg/m ³	C	
	OSHA Z1	500 ppm	TWA	

(1) No OEL has been established for d-limonene. Value given is for turpentine which has same molecular weight and similar structure.

SECTION 9: PHYSICAL & CHEMICAL PROPERTIES

Appearance: Clear to hazy, yellow-orange viscous liquid

Odor: mild citrus

Odor Threshold: not determined

pH: about 9

Melting Point / Freezing: about 32°F

Boiling Point / Boiling Point Range: about 212°F

Flash Point: 145°F TCC

Evaporation Rate: equal to water

Flammability: not applicable

Lower Flammable Limit: not determined

Upper Flammable Limit: not determined

Explosive Properties: not applicable

Vapor Pressure: equal to water

Relative Vapor Density: not determined

Relative Density: 1.00

Solubility (Water): water soluble

Partition Coefficient (K_{ow}): not determined

Auto-ignition temperature: not determined

Decomposition temperature: not determined

Viscosity: not determined (viscous shear thinning liquid)

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



SAFETY DATA SHEET

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PENAIR® C5575

MIL-PRF-85570E Type V

Page: 5 of 7

Date Prepared: January 16, 2018

MSDS No.: 2330

Do not store near strong acids, bases or oxidizing agents.

Incompatible Materials

Strong acids, bases or oxidizing agents.

Hazardous Decomposition Products

Oxides of carbon and nitrogen when taken to dryness.

SECTION 11: TOXICOLOGICAL INFORMATION

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: >3,000 mg/kg rabbit (estimated from additivity formula)

Inhalation: no data available

Oral: >3,000 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.

Sensitization - Respiratory or Skin

d-Limonene may cause skin sensitization.

Germ Cell Mutagenicity

Not expected to be mutagenic based upon component information and comparison to structurally similar compounds.

Carcinogenicity

Various studies have shown that d-limonene when fed at very high levels to laboratory animals have resulted in effects on the kidneys, liver, ureter, and bladder. d-Limonene is listed by IARC as Group 3: not classifiable as to its carcinogenicity to humans. d-Limonene is listed as an equivocal tumorigenic agent by RTECS criteria.

Developmental/Reproductive Toxicity

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 for the product. Various individual components have been tested:

Dipropylene glycol: NOEL oral rat 470-530 mg/kg/d

Linear alcohol ethoxylate: repeat dose 90 day oral sub-chronic NOEL rat M/F >500 mg/kg/d and 90 day dermal sub-chronic NOEL rat M/F >125 mg/kg/d

d-Limonene: Mouse, M/F NOEL 1,650 mg/kg, LOEL 3,300 mg/kg.

Aspiration Hazard

Although the hydrocarbons in this product pose an aspiration hazard, because of this product's high viscosity, product not expected to be an aspiration hazard.



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MIL-PRF-85570E Type V

Page: 6 of 7

Date Prepared: January 16, 2018

MSDS No.: 2330

SECTION 12: ECOLOGICAL INFORMATION

Product Summary

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

Ecotoxicity

LC/EC/IC 1-10 mg/l (estimated using additivity formula) and comparison to similar products.

Persistence and Degradability

Product components considered readily biodegradable.

In two separate 28 day studies (EPA 796.3100), degradability determined to be 85.4% by DOC, 43.2% by CO₂ evolution and 86.9% by DOC, 39.1% by CO₂ evolution. Minimum inhibitory concentration was less than 3.125% in both studies. Product as a whole should be considered readily biodegradable.

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

ID No.:	Not applicable, nonhazardous material
Proper Shipping Name:	Not applicable
Hazard Class:	Not applicable
Packing Group:	Not applicable
Label:	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 Fire



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MIL-PRF-85570E Type V

Page: 7 of 7

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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), C9-11 alcohol ethoxylate (CAS# 68439-46-3), dipropylene glycol (CAS# 25265-71-8), d-limonene (CAS# 5989-27-5), and capryloamphopropionate (CAS# 68815-55-4).

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? Yes

What is the % by volume of photochemically reactive material? 8

What is the VOC content? 96 g/L

What is the vapor pressure of VOC's? Less than 1 mm Hg @ 20°C

SECTION 16: OTHER INFORMATION

REVISION SUMMARY

Update Section 9

SUPERSEDES ISSUE DATE

August 18, 2016

HAZARD RATING SYSTEMS:

	<u>HMIS</u>	<u>NFPA</u>
HEALTH	1	1
FLAMMABILITY	2	2
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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