



MATERIAL SAFETY DATA SHEET

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

PENAIR® M-5571
MIL-PRF-85570D Type I

Page: 1 of 4 Preparer: C. Good
Date Prepared: February 5, 2004
MSDS No.: 9904MIL-402D

SECTION 1 PRODUCT IDENTIFICATION & EMERGENCY INFORMATION

PRODUCT NAME: PENAIR M-5571
GENERAL USE: Aircraft stain and carbon remover
PRODUCT DESCRIPTION: Solvent emulsion
GENERIC INGREDIENTS: Water, aromatic hydrocarbons, surfactants, coupling agents

EMERGENCY TELEPHONE NUMBERS: PENETONE 201-567-3000
CHEMTREC 800-424-9300

SECTION 2 HAZARDOUS INGREDIENT SECTION

This product is hazardous as defined in 29 CFR1910.1200.

OSHA HAZARD: COMBUSTIBLE

OSHA HAZARDOUS INGREDIENTS

	%	CAS#	EXPOSURE LIMITS 8 hrs. TWA (ppm)		Supplier
			OSHA PEL	ACGIH TLV	
Aromatic hydrocarbons	5-10	64742-94-5	not established	not established	100
Dipropylene glycol monomethyl ether	8-13	34590-94-8	100	100	---

SECTION 3 HEALTH INFORMATION & PROTECTION

EMERGENCY OVERVIEW:

Clear, amber liquid with mild pleasant odor.
Can be irritating to eyes, skin, and respiratory tract.

POTENTIAL HEALTH EFFECTS:

EYE CONTACT:

Slightly irritating but does not injure eye tissue. High vapor concentrations may be irritating.

SKIN CONTACT:

Frequent or prolonged contact may irritate or dry the skin or cause dermatitis. Skin contact may aggravate an existing dermatitis condition.

INHALATION:

High vapor/aerosol concentrations (greater than the TLV) are irritating to the respiratory tract, may cause headaches, dizziness, anesthesia, drowsiness, unconsciousness, and other central nervous system effects.

INGESTION:

Small amounts of this liquid may be drawn into the lungs by either swallowing or vomiting. This may cause severe and delayed health effects such as inflammation of the lungs and infection of the bronchi. Ingestion may cause irritation of the digestive tract and diarrhea.

FIRST AID MEASURES:**EYE CONTACT:**

Flush eyes with large amounts of water. See physician immediately.

SKIN CONTACT:

Flush skin with large amounts of water. Use soap if available. Remove contaminated clothing and launder before reuse. If skin irritation develops or persists, consult physician.

INHALATION:

Remove person to fresh air. Administer oxygen or artificial respiration as needed. Call a physician immediately.

INGESTION:

If swallowed, DO NOT INDUCE VOMITING. Use a stomach pump. Call a physician immediately.

WORKPLACE EXPOSURE CONTROLS:**PERSONAL PROTECTION:**

Safety glasses are recommended for all workplace conditions. Solvent resistant gloves are recommended where prolonged skin exposure is expected. Other protective gear, including splash proof goggles or face shield, rubber boots, aprons, gauntlets, or rain gear should be worn depending on how the product is used.

VENTILATION:

None needed under normal use conditions. For enclosed areas, or where large amounts of the product are being used, the use of fans or other mechanical ventilation is recommended. An organic vapor mask should be used if the TLV is exceeded and a particle mask if the product is sprayed. DO NOT MIST THIS PRODUCT. Use coarse spray only.

SECTION 4 FIRE & EXPLOSION HAZARDS

FLASH POINT: 64°C (147°F) TCC, 85°C (185°F) COC

FLAMMABLE LIMITS: not determined

AUTOIGNITION TEMPERATURE: not determined

GENERAL HAZARD:

Combustible. Can form combustible mixtures at or above the flash point.
Containers can rupture and explode under fire conditions due to pressure and vapor buildup.

FIRE FIGHTING:

Either allow fire to burn out under controlled conditions or extinguish with water, foam, or dry chemical.
Cool exposed containers with water spray.

HAZARDOUS COMBUSTION PRODUCTS:

Smoke, fumes, and oxides of carbon.

SECTION 5 SPILL CONTROL MEASURES

LAND SPILL:

Eliminate sources of ignition. For small spills, use absorbent material such as towels or absorbent powders. Put all material into proper waste disposal container with lid tightly covered. **Solvent soaked materials may spontaneously combust.** For larger spills, dike spill, recover free liquid, and use absorbent material to dry area. Rinse area with water. Put all material into appropriate waste containers.

WATER SPILL:

Remove product from water surface by skimming or with suitable absorbents. This product contains surfactants which will cause it to disperse in water. Localized high concentrations of this product may cause fish kills, but no persistent or long term effects will result. Check with local environmental regulatory agencies for reporting requirements.

SECTION 6 HANDLING & STORAGE

STORAGE TEMPERATURE, °F: ambient. DO NOT STORE ABOVE 120 Deg. F.

GENERAL: Keep away from heat sources, open flames, and other ignition sources. Do not store near strong oxidants.

SECTION 7 TYPICAL PHYSICAL & CHEMICAL PROPERTIES

BOILING POINT, °F:

about 212

EVAPORATION RATE, n-butyl acetate = 1:

less than 0.05

SOLUBILITY IN WATER:

soluble

SPECIFIC GRAVITY at 75°F:

1.03

ODOR AND APPEARANCE:

clear amber liquid with mild pleasant odor

VAPOR PRESSURE, mm Hg at 20°C:

equal to water

VAPOR DENSITY (Air = 1):

not determined

WT% ORGANIC VOLATILES:

about 30

pH:

8-9

SECTION 8 REACTIVITY DATA

GENERAL:

This product is stable and hazardous polymerization will not occur.

INCOMPATIBLE MATERIALS AND CONDITIONS TO AVOID:

Strong oxidizing agents.

SECTION 9 REGULATORY INFORMATION

DEPARTMENT OF TRANSPORTATION (DOT):**PROPER SHIPPING NAME:**

NONREGULATED (nonhazardous) MATERIAL

HAZARD CLASS: none**IDENTIFICATION NUMBER:** none**PACKING GROUP:** none**LABEL:** not required**FLASH POINT:** 64°C (147°F) TCC**pH:** 8-9**TSCA:** The ingredients in this product are listed on the TSCA inventory.**CERCLA:**

This product contains no reportable CERCLA materials. We recommend you contact local authorities to determine if there may be other local reporting requirements.

RCRA HAZARD CLASS:

Nonhazardous waste

SARA TITLE III:

311/312 HAZARD CATEGORIES:

Acute health, Fire

313 REPORTABLE INGREDIENTS:

Diethylene glycol CAS# 111-46-6 5-10 wt%

NEW JERSEY RIGHT-TO-KNOW INFORMATION:

This product contains water (CAS# 7732-18-5), alkylphenol ethoxylate (CAS# 9016-45-9), dipropylene glycol monomethyl ether, aromatic hydrocarbons (CAS# 64742-94-5), and diethylene glycol (CAS# 111-46-6).

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? about 10

What is the VOC content? 290 g/l

What is the vapor pressure of VOC's? 0.018 mm Hg

SECTION 10 NOTES

HAZARD RATING SYSTEMS:

	HMIS	NFPA
HEALTH	1	1
FLAMMABILITY	2	2
REACTIVITY	0	0

KEY
 4 = Severe
 3 = Serious
 2 = Moderate
 1 = Slight
 0 = Minimal

REVISION SUMMARY:

Changes in Header

SUPERSEDES ISSUE DATE:

July 1, 2003

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

THE INFORMATION PRESENTED HEREIN HAS BEEN COMPILED FROM SOURCES CONSIDERED TO BE DEPENDABLE AND ACCURATE TO THE BEST OF PENETONE'S KNOWLEDGE. THE INFORMATION RELATES TO THIS SPECIFIC MATERIAL. IT MAY NOT BE VALID FOR THIS MATERIAL IF USED IN COMBINATION WITH ANY OTHER MATERIALS OR IN ANY PROCESS. IT IS THE USER'S RESPONSIBILITY TO SATISFY ONESELF AS TO THE SUITABILITY AND COMPLETENESS OF THIS INFORMATION FOR HIS OWN PARTICULAR USE.



FOR INDUSTRIAL USE ONLY

9904

PENAIR[®] M-5571

Solvent Emulsion Cleaner Aromatic Solvent General Use Exterior Aircraft Cleaner Exhaust Stain and Carbon Remover - Safe On All Aircraft Metals Qualified Under MIL-PRF-85570 Type I

WARNING: COMBUSTIBLE MIXTURE

CONTAINS DIPROPYLENE GLYCOL METHYL ETHER (CAS# 34590-94-8) AND AROMATIC HYDROCARBONS (CAS# 64742-94-5). FLASH POINT 147°F (TCC). VAPOR HARMFUL. IRRITATING TO SKIN AND EYES. HARMFUL IF SWALLOWED. KEEP OUT OF REACH OF CHILDREN.

Keep away from heat, sparks, and open flames. Avoid breathing of vapors and spray mist. Adequate ventilation, including open doors and windows, exhaust fans and air movements must be provided. Avoid contact with skin, eyes, and clothing. When using, wear safety glasses or splash-proof goggles and solvent resistant gloves. Other equipment including face shield and apron are recommended if the product is sprayed. Use coarse spray only. DO NOT FOG. If spraying, wear a particle mask. Launder contaminated clothing before reuse. Overexposure can cause headaches, drowsiness, or nausea.

FIRST AID: In case of contact with skin and eyes, immediately flush affected areas with large amounts of water for 15 minutes. For eyes, consult physician immediately. For skin, consult physician if irritation develops or persists. In case of excessive inhalation, remove to fresh air. Give artificial respiration if needed. Call a physician immediately. If ingested, drink plenty of milk and/or water. DO NOT INDUCE VOMITING. Call a physician immediately.

FIRE PROCEDURE: Extinguish with foam, dry chemical, or CO₂.

STORAGE AND HANDLING: Keep container closed when not in use. Store away from heat, sparks or open flame, and at temperatures below 120°F. If *Penair M-5571* should freeze, thaw and mix before using. Store only in original container. Do not cut, weld or reuse empty container. Dispose of container and contents only in accordance with local, state, and Federal EPA regulations.

Use product within two years of purchase date. To reorder, call 800-631-1652 or 800-421-6211.

DIRECTIONS FOR USE:

For Most General Cleaning Operations: Apply PENAIR M-5571 by coarse spray, foam (see NAVAIR 01-1A-509, Section 2), mop, sponge, cloth or brush After allowing a short dwell time, scrub by brush or otherwise and thoroughly rinse with fresh water to ensure removal of stubborn deposits.

For Light Soils: Mix 1 part *Penair M-5571* in 14 parts water.

For Moderate Soils: Mix 1 part *Penair M-5571* in 9 parts water.

For Heavy Soils: Mix 1 part *Penair M-5571* in 4 parts water.

For Regular Cleaning of Exhaust Track Areas, Wheel and Tire Wells: Dilute 1:2 with water. Apply to surface liberally, preferably with a high pressure sprayer. After a dwell time of 1 to 2 minutes, agitate with mop head or soft bristled brush where necessary, then hose or pressure rinse thoroughly with large volumes of water.

For Extremely Heavily Soiled Surfaces: Use *Penair M-5571* concentrated or diluted 1:1 with water.

IMPORTANT: Always follow the instructions contained in the appropriate service/technical manuals prior to cleaning.

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