



MATERIAL SAFETY DATA SHEET

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

PENAIR® M-3616
MIL-C-43616 and Amendment 2, Class 1 Liquid

Page: 1 of 4 Preparer: C. Good
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SECTION 1 PRODUCT IDENTIFICATION & EMERGENCY INFORMATION

PRODUCT NAME: Penair M-3616
GENERAL USE: Cleaning, degreasing
PRODUCT DESCRIPTION: Solvent emulsion
GENERIC INGREDIENTS: Water, aromatic hydrocarbons, coupling agents, surfactants

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: ACUTE HEALTH

OSHA HAZARDOUS INGREDIENTS

	%	CAS#	EXPOSURE LIMITS 8 hrs. TWA (ppm)		Supplier
			OSHA PEL	ACGIH TLV	
Aromatic hydrocarbons	35	64742-94-5	---	---	100

SECTION 3 HEALTH INFORMATION & PROTECTION

EMERGENCY OVERVIEW:

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

POTENTIAL HEALTH EFFECTS:

EYE CONTACT:

May cause irritation to eyes on prolonged contact. 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 may be irritating to the respiratory tract and 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 to the digestive tract.

FIRST AID MEASURES:**EYE CONTACT:**

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

SKIN CONTACT:

Flush skin with large amounts of water. 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, give plenty of milk or water. **DO NOT INDUCE VOMITING.** Use stomach pump. Call a physician immediately.

WORKPLACE EXPOSURE CONTROLS:**PERSONAL PROTECTION:**

Safety glasses are recommended for all workplace conditions. Solvent resistant gloves should be used. Other protective gear, including splash proof goggles or face shield, rubber boots, apron, 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: none to boil T.C.C.

FLAMMABLE LIMITS: not determined

AUTOIGNITION TEMPERATURE: not determined

GENERAL HAZARD:

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, nitrogen and sulfur

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. KEEP FROM FREEZING.

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:

212

EVAPORATION RATE, Acetone = 1:

less than 0.05

SOLUBILITY IN WATER:

emulsifies

SPECIFIC GRAVITY at 75°F:

0.99

ODOR AND APPEARANCE:

Clear yellow liquid with mild aromatic odor.

VAPOR PRESSURE, mm Hg at 20°C:

less than 3

VAPOR DENSITY (Air = 1):

not determined

WT% ORGANIC VOLATILES:

About 40

pH:

7.7 - 9.7

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:**

NONHAZARDOUS (nonregulated) MATERIAL

HAZARD CLASS: none**IDENTIFICATION NUMBER:** none**PACKING GROUP:** none**LABEL:** not required**FLASH POINT:** none to boil T.C.C.**pH:** 7.7 - 9.7**TSCA:** The ingredients in this product are listed on the TSCA inventory.**CERCLA:**

This product contains no reportable CERCLA materials. 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

313 REPORTABLE INGREDIENTS:

Diethylene glycol monobutyl ether CAS# 112-34-5 5%

NEW JERSEY RIGHT-TO-KNOW INFORMATION:

This product contains water (CAS# 7732-18-5), aromatic hydrocarbons (CAS# 64742-94-5), diethylene glycol monobutyl ether (CAS# 112-34-5), potassium fatty acid soap (CAS# 61790-44-1), and nonyl phenol ethoxylate (CAS# 9016-45-9).

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? 35

What is the VOC content? 396 g/L

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

SECTION 10 NOTES

HAZARD RATING SYSTEMS:

	HMIS	NFPA
HEALTH	1	1
FLAMMABILITY	1	1
REACTIVITY	0	0

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

REVISION SUMMARY:

Changes in header

SUPERSEDES ISSUE DATE:

April 26, 2002

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

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