



MATERIAL SAFETY DATA SHEET

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PENSOLV® PB2000

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MSDS No.: 4681-402P

SECTION 1 PRODUCT IDENTIFICATION & EMERGENCY INFORMATION

PRODUCT NAME: PENSOLV PB2000

GENERAL USE: General bench top degreaser

PRODUCT DESCRIPTION: Solvent blend

GENERIC INGREDIENTS: Halogenated solvent

EMERGENCY TELEPHONE NUMBERS: PENETONE 201-567-3000

CHEMTREC 800-424-9300

SECTION 2 HAZARDOUS INGREDIENT SECTION

This product is hazardous as defined in 29 CFR 1910.1200.

OSHA HAZARD: HEALTH

OSHA HAZARDOUS INGREDIENTS

	CAS#	EXPOSURE LIMITS 8 hrs. TWA (ppm)		Supplier
		OSHA PEL	ACGIH TLV	
1-Bromopropane	106-94-5	not established	not established	25

SECTION 3 HEALTH INFORMATION & PROTECTION

EMERGENCY OVERVIEW:

Clear water white liquid with halogenated solvent odor.

Irritating to eyes, skin, and respiratory tract.

POTENTIAL HEALTH EFFECTS:

EYE CONTACT:

Irritating to eyes. 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/ concentrations (greater than the TLV) are irritating to the respiratory tract and may cause headaches, dizziness, anesthesia, drowsiness, unconsciousness, and other central nervous system effects. May cause liver and kidney effects. May aggravate an existing liver, kidney, respiratory, and nervous system disorder.

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.

CHRONIC:

Long term overexposure may cause lung, kidney, liver, urinary, blood, bone marrow, heart, eye, central nervous system, reproductive and fertility effects.

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 (Viton or Norfoil) 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. Use a half or full face piece organic vapor chemical cartridge or canister respirator when concentrations exceed the permissible limits. Use self-contained breathing apparatus (SCBA) or full face piece airline respirator with auxiliary SCBA operated in the pressure-demand mode for emergencies and for all work performed in storage vessels, poorly ventilated rooms, and other confined areas.

SECTION 4 FIRE & EXPLOSION HAZARDS

FLASH POINT: None-to-boil, TCC

FLAMMABLE LIMITS: 4-7.8%

AUTOIGNITION TEMPERATURE: 490°C

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. Wear a self-contained breathing apparatus and protective clothing to prevent skin and eye contact in fire situations.

HAZARDOUS COMBUSTION PRODUCTS:

Smoke, fumes, and oxides of carbon, hydrogen bromide, bromine and carbonyl halides.

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. For larger spills, dike spill, recover free liquid, and use absorbent material to dry area. Put all material into appropriate waste containers.

WATER SPILL:

THIS PRODUCT IS HEAVIER THAN WATER AND WILL SINK. Recovery may be difficult. 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 oxidizing agents, strong acids, strong bases, organic and inorganic acid chlorides, acid anhydrides, and reactive metals such as sodium, potassium, calcium, and magnesium. It may react with certain soft metals such as aluminum and zinc, particularly when finely divided. Store only in the original container. Keep tightly closed using original bung when not in use. Use only stainless steel and inert plastic pumps to transfer liquid. Do not use aluminum pumps.

SECTION 7 TYPICAL PHYSICAL & CHEMICAL PROPERTIES

BOILING POINT, °F:

90

EVAPORATION RATE, n-butyl acetate = 1:

about 6

SOLUBILITY IN WATER:

about 5%

SPECIFIC GRAVITY at 75°F:

1.23

ODOR AND APPEARANCE:

clear water white liquid with halogenated solvent odor

VAPOR PRESSURE, mm Hg at 20°C:

about 110

VAPOR DENSITY (Air = 1):

about 4.1

WT% ORGANIC VOLATILES:

100

pH:

not applicable

SECTION 8 REACTIVITY DATA

GENERAL:

This product is stable and hazardous polymerization will not occur.

INCOMPATIBLE MATERIALS AND CONDITIONS TO AVOID:

Strong oxidizing agents, strong acids, strong based, organic and inorganic acid chloride, acid anhydrides, and reactive metals such as sodium, potassium, calcium and magnesium. It may react with certain soft metals such as aluminum and zinc, particularly when finely divided.

SECTION 9 REGULATORY INFORMATION

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

Nonhazardous (nonregulated) material

HAZARD CLASS: none**IDENTIFICATION NUMBER:** none**PACKING GROUP:** none**LABEL:** none**FLASH POINT:** none-to-boil**pH:** not applicable**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 and chronic health, fire

313 REPORTABLE INGREDIENTS:

None

NEW JERSEY RIGHT-TO-KNOW INFORMATION:

This product contains 1-bromopropane (CAS# 106-94-5).

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? 1230 g/l
What is the vapor pressure of VOC's? About 110 mm Hg @ 20°C

SECTION 10 NOTES

HAZARD RATING SYSTEMS:

	HMIS	NFPA
HEALTH	2	2
FLAMMABILITY	0	0
REACTIVITY	1	1

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

REVISION SUMMARY:

Change in header

SUPERSEDES ISSUE DATE:

May 6, 2003

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

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