



# MATERIAL SAFETY DATA SHEET

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

PENSOLV® PB 2000 AEROSOL

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## SECTION 1 PRODUCT IDENTIFICATION & EMERGENCY INFORMATION

PRODUCT NAME: PENSOLV PB2000 AEROSOL  
GENERAL USE: General bench top degreasing  
PRODUCT DESCRIPTION: Solvent blend/Aerosol  
GENERIC INGREDIENTS: Halogenated solvent with stabilizers

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, AEROSOL CONTAINER

### 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
Carbon dioxide	124-38-9	5,000	5,000	---

## 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/aerosol 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.

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**SECTION 4 FIRE & EXPLOSION HAZARDS**

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**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, dry chemical, or carbon dioxide. 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, and bromine.

**FLAMMABILITY CLASSIFICATION:** Aerosol LEVEL I

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**SECTION 5 SPILL CONTROL MEASURES**

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**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. 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.

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**SECTION 6 HANDLING & STORAGE**

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**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.

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**SECTION 7 TYPICAL PHYSICAL & CHEMICAL PROPERTIES**

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**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

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**SECTION 8 REACTIVITY DATA**

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**GENERAL:**

This product is stable and hazardous polymerization will not occur.

**INCOMPATIBLE MATERIALS AND CONDITIONS TO AVOID:**

Strong oxidizing agents, strong acids, strong bases, 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.

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**SECTION 9 REGULATORY INFORMATION**

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**DEPARTMENT OF TRANSPORTATION (DOT):**

**PROPER SHIPPING NAME:**

AEROSOLS

**HAZARD CLASS:** 2.2

**IDENTIFICATION NUMBER:** UN1950

**PACKING GROUP:** none

**LABEL:** NON FLAMMABLE GAS

**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:**

Carbon dioxide CAS# 124-38-9 <5 wt%

**NEW JERSEY RIGHT-TO-KNOW INFORMATION:**

This product contains 1-bromopropane (CAS# 106-94-5), and carbon dioxide (CAS# 124-38-9).

**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? No  
What is the % by volume of photochemically reactive material? 0  
What is the VOC content? 1169 g/l  
What is the vapor pressure of VOC's? About 110 mm Hg @ 20°C

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**SECTION 10 NOTES**

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**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 Section 9

**SUPERSEDES ISSUE DATE:**

February 18, 2004

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

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