

1. IDENTIFICATION

Product Identifier

Product Name PENSOLV PB 2000

Recommended use of the chemical and restrictions on use

Recommended use Solvent degreaser
Restrictions on use For industrial use only

Supplier details

West Penetone Inc.
 10900 Secant
 Montréal, QC,
 H1J 1S5
 Tel: 514-355-4660

Emergency Telephone Number

Canutec: (613)-996-6666

2. HAZARDS IDENTIFICATION

Classification

Acute toxicity, oral	Category 5
Skin corrosion/irritation	Category 2
Eye damage/ irritation	Category 2A
Aspiration hazard	Category 1
Reproductive toxicity	Category 1B
Specific target organ toxicity (single exposure)	Category 3
Specific target organ toxicity (repeated exposure)	Category 2

Label Elements

DANGER

Hazard Statements

May be harmful if swallowed
 Causes skin irritation
 Causes serious eye irritation
 May damage fertility or the unborn child
 May be fatal if swallowed and enters airways
 May cause respiratory irritation
 May cause drowsiness or dizziness
 May cause damage to organs (liver and/or central nervous system) through prolonged or repeated exposure if inhaled



Precautionary Statements - Prevention

Do not breathe mist/vapors/spray. Use only outdoors or in a well-ventilated area.
 Obtain special instructions before use.
 Do not handle until all safety precautions have been read and understood.
 Wash face, hands and any exposed skin thoroughly after handling.
 Wear protective gloves/protective clothing/eye protection/face protection.

Precautionary Statements - Response

IF ON SKIN: Wash with plenty of water. If skin irritation occurs, get medical advice/attention. Take off contaminated clothing and wash it before re-use.

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: Get medical advice/attention.

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Do NOT induce vomiting.

If exposed or concerned: Get medical advice/attention.

Get medical advice/attention if you feel unwell.

Precautionary Statements - Storage

Store locked up. Store in a well ventilated place. Keep container tightly closed.

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant according to local, provincial/federal regulations.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %
1-bromo propane	106-94-5	100

4. FIRST AID MEASURES

Eye contact Rinse cautiously with water for several minutes. Call a physician if irritation persists.

Skin contact Wash with plenty of water. If skin irritation or rash occurs, get medical advice/attention. Take off contaminated clothing and wash it before re-use.

Inhalation If difficulties occur after mist/vapors/spray has been inhaled, remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

Ingestion Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician.

Most important symptoms and effects, both acute and delayed

Contact with eyes may cause irritation or discomfort. Inhalation of mist/vapors/spray may cause respiratory tract irritation leading to a temporary burning sensation of the nose and throat, coughing, and difficulty breathing. Ingestion may cause irritation or a burning sensation of the mouth and throat and abdominal pain. May cause pneumonitis if aspirated.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

5. FIRE-FIGHTING MEASURES**Suitable Extinguishing Media**

CO₂, foam, dry chemical, water fog.

Unsuitable Extinguishing Media

Do not use a solid water stream as this may spread the fire.

Specific hazards arising from the chemical

During fire, gases hazardous to health may be formed including oxides of carbon, smoke and other irritating gases.

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Remove all sources of ignition. Avoid contact with skin, eyes and clothing. Use personal protective equipment.

Environmental Precautions

Avoid discharge into drains/surface waters/groundwater.

Methods and material for containment and cleaning up

Contain and solidify with inert absorbent material. Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE

Precautions for Safe Handling

Handling Avoid contact with skin, eyes and clothing. Ensure thorough ventilation of work areas.

Conditions for safe storage, including any incompatibilities

Storage Keep containers tightly closed away from direct sunlight in a dry, cool and well-ventilated place, away from incompatible materials.

Incompatible Materials Strong oxidizing agents and bases.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

Chemical Name	ACGIH TLV
1-bromopropane 106-94-5	TWA : 0.1 ppm

Appropriate engineering controls

Engineering Controls Ensure adequate ventilation, especially in confined areas.

Individual protection measures, such as personal protective equipment

Eye/face Protection Safety glasses with side shields.

Skin and body protection Wear solvent proof gloves.

Respiratory Protection If exposure limits are exceeded or if ventilation is inadequate, NIOSH/MSHA approved respiratory protection for organic vapors should be worn.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE :

Clear, colorless liquid

ODOR

Halogenated solvent

ODOR THRESHOLD :

Not available

pH :

Not applicable

MELTING POINT / FREEZING POINT :

- 110°C

BOILING POINT/BOILING RANGE :

71°C

FLASH POINT :

None to boiling point (TCC)

EVAPORATION RATE, n-butyl acetate = 1 :

4.5

FLAMMABILITY (SOLID, GAS):

Not applicable

VAPOR PRESSURE, mm Hg AT 20°C :

139

VAPOR DENSITY (Air = 1) :

4.3

RELATIVE DENSITY AT 20°C:

1.35

SOLUBILITY IN WATER :

Insoluble

PARTITION COEFFICIENT, N-OCTANOL/WATER :

Log Pow: 2.1

AUTO-IGNITION TEMPERATURE :

490°C

DECOMPOSITION TEMPERATURE:

Not available

VISCOSITY:

< 5 cps

FLAMMABLE LIMITS :**UPPER:** 9% volume **LOWER :** 3% volume

10. STABILITY AND REACTIVITY

Reactivity

Not reactive

Conditions to Avoid

Store away from incompatible materials.

Chemical Stability

Stable under normal conditions.

Possibility of hazardous reactions

None

Incompatible Materials

Strong oxidizers and bases.

Hazardous decomposition products

Smoke, fumes, and oxides of carbon and bromine, hydrogen bromide gas.

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
1-bromopropane 106-94-5	4260 mg/kg (rat)	>5000 mg/kg (rabbit)	14 374 ppm (rat) 4 h

Information on likely sources of exposure**Inhalation**

May cause respiratory irritation and possible damage

Serious eye damage/irritation

May cause eye irritation.

Skin corrosion/irritation

Causes skin irritation.

Ingestion

May be harmful if swallowed

Delayed and immediate effects and also chronic effects from short and long-term exposure**Respiratory or skin sensitization**

None known

Germ cell mutagenicity

None known

Carcinogenicity

No listed human carcinogens.

Reproductive toxicity

May cause congenital malformation in the fetus. May damage the unborn child.

STOT - single exposure

May impair fertility. Presumed human reproductive toxicant.

STOT - repeated exposure

May cause respiratory irritation, drowsiness, or dizziness.

May cause damage to organs (liver and/or central nervous system) through prolonged or repeated exposure.

Aspiration Hazard

May be fatal if swallowed and enters airways

Symptoms related to the physical, chemical and toxicological characteristics

See Section 2 & 4.

12. ECOLOGICAL INFORMATION**Ecotoxicity**

Rainbow trout 96 hr LC50 24.3 mg/l Daphnia magna 48 hr EC50 99.3 mg/l

Persistence and degradability

Not readily biodegradable.

Bioaccumulative potential

Accumulation in organisms is not to be expected.

Mobility in soil

No information available

Other adverse effects

None known

13. DISPOSAL CONSIDERATIONS**Waste Disposal Method**

Dispose of in accordance with local regulations.

Contaminated Packaging

Empty containers should be taken for local recycling, recovery or waste disposal.

14. TRANSPORT INFORMATION**TDG classification**

Not regulated

15. REGULATORY INFORMATION

All ingredients are listed on the DSL

16. OTHER INFORMATION**Preparation Date**

January 2, 2017

Revision Date

not applicable

Revision Note

not applicable

Disclaimer

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End of SDS