

# MATERIAL SAFETY DATA SHEET

*Product Name:* Solvon® PB  
*Catalog Number:* 20420, 20421, 20422  
*DOT Hazard Class:* Not Applicable  
*MSDS Prepared:* 2/2006

*Distributed By:* Ladd Research  
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## **CHEMICAL COMPONENTS**

	<i>CAS Number</i>	<i>Percent</i>	<i>Exposure Limits</i>
n-Propyl bromide	106-94-5	>94	100ppm
t-Butanol	75-65-0	<2	100ppm
1,2-Epoxybutane	106-88-7	<2	Not Available
Acetonitrile	75-05-8	<2	40ppm

## **PHYSICAL AND CHEMICAL DATA**

**Appearance and Odor** – Clear, colorless liquid with characteristic alkyl halide odor

**Specific Gravity** – 1.33

**Boiling Point** - 71°C

**Percent Volatile** – 100

**Vapor Pressure** - ~112 mm Hg at 20°C

**Vapor Density** - ~4.3

**Solubility in Water** – 0.25 g/100ml at 20°C

## **FIRE AND EXPLOSION HAZARD DATA**

**Flash Point** – None

**Flammable Limits** – 4.0 – 8.0 (% in air)

**Autoignition Temperature** - 490°C for n-propyl bromide

**Extinguishing Media** – Carbon dioxide, dry chemical powder, alcohol foam or polymer foam.  
Water may not be effective.

**Special Fire Fighting Procedures** – Wear self-contained breathing apparatus and protective gear to prevent eye and skin contact.

**Unusual Fire and Explosion Hazard** – Containers may explode in fire. Toxic and corrosive fumes may be released.

## **HEALTH HAZARD DATA**

**Eyes** – May cause irritation.

**Skin** – May cause irritation.

**Ingestion** – Low toxicity, not expected to be a hazard in normal use.

**Inhalation** – May irritate nose, throat and lungs. High doses may cause CNS Depression.

**EMERGENCY AND FIRST AID**

**Eyes** - Spread eyelids and flush with water for at least 15 minutes. Obtain medical attention.

**Skin** – Remove contaminated clothing, wash skin thoroughly with soap and water.

**Inhalation** – Remove person to fresh air. Obtain medical attention.

**Ingestion** – Wash mouth with plenty water. Give a glass of water to drink. Obtain medical attention.

**REACTIVITY DATA**

**Stability** – Stable under normal conditions

**Materials to Avoid** – Strong oxidizers and strong bases

**Conditions to Avoid** – Keep away from ignition source.

**Decomposition Products** – Hydrogen bromide and oxides of carbon.

**Hazardous Decomposition Products** – Will not occur

**SPILL, DISPOSAL AND STORAGE INFORMATION**

**Spill** – Shut off all sources of ignition. Contain the spill and absorb with inert material. Place in a waste container. Wash spill site and ventilate the area.

**Disposal** – Apply appropriate local, state and federal regulations.

**Storage** – Store in a dry, cool, well ventilated area. Keep containers closed. Keep away from heat, sparks and open flame.

**PROTECTIVE EQUIPMENT AND CONTROL MEASURES**

**Ventilation** – Provide good local ventilation where needed.

**Eye** – Chemical safety goggles or face shield with safety glasses.

**Gloves/Clothing** – Wear chemically resistant gloves, clothing and boots to minimize contact with skin.

**Respiratory** – Use approved respirators if vapor or misting occurred, or in insufficiently ventilated area.

**SECTION 313 SUPPLIER NOTIFICATION**

1,2 Epoxybutane, t-butanol and acetonitrile are subject to the reporting requirements of SARA Section 313, Title III.

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