



# Safety Data Sheet

Better Chemistry. Better Business

**HUBTRON PB**

**Revised:** 7/30/19

## 1 IDENTIFICATION

**Product Name:** HUBTRON PB

**Product Code :**0321070

**Recommended use of the chemical and restrictions on use:**Solvent

**Hubbard-Hall Inc.**

563 South Leonard Street  
Waterbury, CT 06708

**Telephone:** 203-756-5521

**Fax number:** 203-756-9017

Emergency Phone Number

**CHEMTREC:** 1 (800) 424-9300

**International:** 1 (703) 527-3887

## 2 HAZARDS IDENTIFICATION



**Signal Word:** DANGER

- Hazard Category:** Skin Corrosion/Irritation Hazard Category 2
- Eye Damage/Irritation Hazard Category 2A
- Toxic to Reproduction Hazard Category 1B
- Specific Target Organ Toxicity (Single Exposure) Hazard Category 3
- Specific Target Organ Toxicity (Repeated Exposure) Hazard Category 2
- Carcinogenicity Hazard Category 2

- Hazard Statements:** Causes serious eye irritation.  
Causes skin irritation.  
May damage fertility or the unborn child.  
May cause respiratory irritation.  
May cause drowsiness or dizziness.  
May cause damage to organs through prolonged or repeated exposure.  
Suspected of causing cancer.

- Prevention:** Do not breathe dust, fumes, gas, mist, vapors or spray.  
Wear protective gloves, chemical protective clothing, eye protective goggles and face shield for face protection.  
Obtain special instruction before use.  
Do not handle until all safety precautions have been read and understood.  
Wash skin thoroughly after handling.  
Do not eat, drink or smoke when using this product.

Use only outdoors or in well ventilated area.

**Response:** If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

If inhaled: Remove person to fresh air and keep comfortable for breathing. Call poison center/doctor if you feel unwell.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If skin irritation or rash occurs, get medical advice/attention.

If eye irritation persists: Get medical attention.

Take off immediately all contaminated clothing and wash it before reuse.

If exposed or concerned: Get medical advice/attention.

**Storage:** Store in well ventilated place. Keep container tightly closed.

Store locked up.

**Disposal:** Dispose of contents/container in accordance with local, regional, national, or international regulations.

### 3 COMPOSITION INFORMATION

Chemical Name	Common Name And Synonyms	CAS No. and other Unique identifiers	Concentration %
1-Bromopropane	Propyl Bromide	106-94-5	Approx 94%
Propanol	Propyl Alcohol	71-23-8	<4%
t-Butanol	-	75-65-0	Approx 1%
Butylene Oxide	1,2 Epoxybutane	106-88-7	Approx 1%

### 4 FIRST AID

#### After Inhalation:

If inhaled: Remove person to fresh air and keep comfortable for breathing. Get medical attention.

#### After Skin Contact:

If on skin: Wash with water and get medical attention.

#### After Eye Contact:

Immediately flush with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do so. Continue rinsing. Call a physician or poison control center immediately.

#### After Ingestion:

If swallowed: Rinse mouth. Do NOT induce vomiting.

If swallowed: Immediately call poison center or doctor.

### Most Important Symptoms/Effects

#### Inhalation:

Breathing of vapor or mist is possible. Breathing this material may be harmful. Symptoms are not expected at air concentrations below the recommended exposure limits (see section 8). It is possible to breathe this material under certain conditions of handling and use (for example, during heating, spraying, or stirring). Causes respiratory tract irritation. Harmful if inhaled. Inhalation may cause central nervous system effects.

#### Eye:

Irritation of eyes and skin.

## 5 FIRE FIGHTING MEASURES

<b>Suitable and Unsuitable extinguishing media:</b>	Will not burn or support combustion. Use extinguishing media appropriate for surrounding fire, such as water spray, dry chemical, foam or carbon dioxide.
<b>Specific hazards arising from the chemical:</b>	May produce hazardous fumes or hazardous decomposition products.
<b>Special protective equipment and precautions for firefighter</b>	Wear chemical resistant protective equipment and self contained breathing apparatus (SCBA).

## 6 ACCIDENTAL RELEASE MEASURES

**Personal Precautions, Protective Equipment, & Emergency Proc** Wear appropriate chemical protection equipment such as gloves, face-shield, goggles and suitable body protection to prevent contamination of skin, eyes and personal clothing.

**Methods and Materials for containment & cleaning up:** Provide sufficient ventilation.

If trained in accordance 29 CFR 1910.120, leaks should be stopped. Spills should be contained and cleaned immediately. Persons performing clean up work should wear adequate personal protective equipment and clothing. Spills and releases should be reported, if required, to the appropriate local, state and federal regulatory agencies.

## 7 HANDLING AND STORAGE

**Precautions for safe handling:** Use in well ventilated area.

Avoid breathing dust, fumes, gas, mist, vapors and sprays.

Wear rubber gloves, goggles and chemical protective clothing.

Eating, drinking and smoking in the work area is prohibited.

Minimize the release of this product to the environment.

**Conditions for safe storage, inc any incompatibilities:** Store in well ventilated place. Keep container tightly closed.

Store locked up.

## 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Name	Std.	TWA-8hrs	STEL - 15 min.
Bromopropane	ACGIH	0.1 ppm	-
Propanol	ACGIH	200 ppm	250 ppm
t-Butanol	ACGIH	100 ppm	150 ppm
Butylene Oxide	Not established		

ACGIH - American Control of Governmental Hygenists  
OSHA - Occupational Safety and Health Administration

**Ventilation:** Use local exhaust to keep personal exposures below the OSHA Permissible Exposure Limit(s) (PEL) or the ACGIH threshold Limit Values (TLV)Time Weight Average (TWA).

**Other Protective Equipment:** Use gloves when contact with product may occur. Viton, laminate film, PVA, or Silvershield gloves offer the best protection.DO NOT use natural rubber gloves when handling this product. Nitrile, neoprene or butyl gloves offer less protection and should be used for splash protection only.

## 9 PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	Clear colorless liquid
<b>Odor:</b>	bleach odor
<b>Odor Threshold:</b>	N/A
<b>PH:</b>	4-7
<b>Melting Point/Freezing Point:</b>	-110 °C estimated based on nPB
<b>Initial Boiling Point and Boiling Range:</b>	71 °C
<b>Flash Point:</b>	None
<b>Evaporation Rate:</b>	4.7
<b>Flammability (solid, gas):</b>	Non flammable
<b>Upper/Lower flammability or explosive limits:</b>	4.1-7.5% in air
<b>Vapor Pressure:</b>	134 @ 25 °C
<b>Vapor Density:</b>	4.3
<b>Relative Density:</b>	1.3
<b>Solubility (ies):</b>	not soluble
<b>Partition Coefficient; n-octanol/water:</b>	N/A
<b>Auto-ignition Temperature:</b>	860 °F
<b>Viscosity:</b>	N/A

## 10 STABILITY AND REACTIVITY

<b>Chemical Stability:</b>	Stable under normal conditions
<b>Possibility of Hazardous Reactions:</b>	Hazardous polymerization does not occur.
<b>Conditions to Avoid:</b>	Extremely high temperatures Contact with incompatible materials
<b>Incompatible Materials:</b>	Will react with alkali Avoid contact with aluminum, tin, zinc, halogenated solvents, and strong oxidizers and acids.
<b>Hazardous Decomposition Products:</b>	Carbon Dioxide, carbon monoxide, smoke, fumes, and/or unburned hydrocarbons

## 11 TOXICOLOGICAL INFORMATION

<b>Oral Administration:</b>	n-Propyl Bromide-LD50-(Rat)-4260 mg/kg
<b>Inhalation:</b>	Propyl Bromide-LC50(Rat)-253 mg/L 0.5 h
<b>Dermal administration:</b>	Propyl Bromide-LD50(Rat)->2000 mg/Kg
<b>Cancer Hazard:</b>	Epoxybutane (Butylene Oxide)-Listed by IARC as Class 2b Carcinogen-Possibly Carcinogenic to humans
<b>Routes of Exposure</b>	Eyes, Skin, Inhalation, Ingestion

## 12 ECOLOGICAL INFORMATION

<b>Lepomis macrochirus,</b>	no data available
<b>Daphnia Magna,</b>	Propyl Bromide-EC50-208.9 mg/L- 48 h
<b>Persistence and Degradability:</b>	Not Available
<b>Abiotic degradability:</b>	No data available
<b>Bioaccumulation potential:</b>	Not known
<b>Soil/Sediment Result:</b>	No data available

### 13 DISPOSAL CONSIDERATION

*Dispose of in accordance with local, state and federal regulations.*

### 14 TRANSPORT INFORMATION

UN Proper Shipping Name: NOT D.O.T. REGULATED  
Additional DOT info: IMDG-Not Regulated IATA-Not Regulated

### 15 REGULATORY INFORMATION

HMIS: Health: 1 Flammability: 0 Reactivity: 0

Cercla: t-butyl alcohol-RQ 100 lbs 1,2 Butylene Oxide RQ 100 lbs

Sara Hazard Classification: N Propyl Bromide (1-Bromopropane) SARA 313 listed

Sara Hazard Classification: 1,2 Butylene Oxide-SARA 313 listed

Proposition 65: WARNING! This product contains a chemical known in the State of California to cause birth defects or other reproductive harm. N Propyl Bromide (1-Bromopropane)

TSCA Inventory Status: All components of this product are on the TSCA inventory or are exempt from TSCA inventory requirements .

### 16 OTHER INFORMATION

Disclaimer: The information is based on our knowledge to date but does not constitute an assurance of product properties and does not imply a legal contractual relationship.

Date Prepared: 12/8/14