



## Product Bulletin

Better Chemistry. Better Business.

Hubtron PB

Product Code: 0321070  
Revised Date: 10/08/2008

### Hubtron PB

#### DESCRIPTION

**Hubtron PB** is a specialty stabilized n-propyl bromide product for precision cleaning and degreasing, suitable for vapor degreasing and rapid drying. This powerful solvent is a replacement for trichloroethylene (TCE), perchlorethylene and methylene chloride. **Hubtron PB** meets or exceeds standard requirements outlined by ASTM-D-6368.

#### FEATURES

- No flash point
- Low toxicity and low odor
- Low ozone depleting potential
- Non-flammable
- EPA and SNAP approved.

#### APPLICATIONS

**Hubtron PB** is a precision cleaner, used in various applications of: Metal cleaning, low tolerance precision bearing cleaning, printed circuit board cleaning, automotive part cleaning and as a drying agent.

With existing vapor degreasing drying equipment, **Hubtron PB** can be used after minor adjustments, and can replace other cleaning solvents including: 1,1,1-TCA, TCE, HCFC-141b.

**Hubtron PB** has been tested and can be used on various metals, in accordance with Mil-T-81533A. After a 24 hour exposure to boiling solvent, no sign of corrosion appeared on the following metals: Aluminum, Brass, Carbon steel, Copper, Inconel, Magnesium, Monel, Stainless Steel. Titanium and Zinc.



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### SAFETY & ENVIRONMENTAL REGULATIONS

Hubtron PB is:

- Not regulated under RCRA as a hazardous waste
- Not regulated under NESHAP as a hazardous air pollutant
- Not reportable under SARA section 313

Hubtron PB is considered a VOC and must be used according to the regulations. For more information please refer to the **Hubtron PB** Material Safety Data Sheet.

### PHYSICAL PROPERTIES

Comparison: **HUBTRON PB** and other common solvents:

	<i>HUBTRON PB</i>	<b>TCE</b>	<b>Methylene Chloride</b>	HCFC- 141b	<b>1,1,1- TCA</b>
Boiling Point °C	70	87	40	32	74
Surface Tension, dynes/cm	25.9	26.4	28.2	19.3	25.6
Vapor Pressure, 20°C	110.8	57.8	349	518	100
Specific Heat, 25°C	0.27	0.22	0.28		0.25
Latent Heat, cal/gm	58.8	57.2	78.7	52.3	57.5
Solubility in Water, w%	0.24	0.11	0.14	0.18	0.07
Flash Point, TCC	N/A	N/A	N/A	N/A	N/A
Flammability limits, v%	4-7.8	8.3-12.5	14.6-21.8	7.6-17.7	7.4-16.5
Kauri Butanol Value	125	129	136	56	124
Life Span in Air	2 weeks	1 year	1 year	10 years	5 years
ODP	0.02	0		0.1	0.1
ACGIH TLV, ppm	10	50	25	500	500



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### **PACKAGING & STORAGE**

**Hubtron PB** is available in the following quantities and packaging:

- 55 gal. drums
- 5 gal. pails
- Smaller size packaging available upon request.

**Hubtron PB** should be stored in the original container in a cool, dry and ventilated place. Do not expose to temperatures higher than 120°F.

### **WARRANTY**

THE QUALITY OF THIS PRODUCT IS GUARANTEED ON SHIPMENT FROM OUR PLANT. IF THE USE RECOMMENDATIONS ARE FOLLOWED, DESIRED RESULTS WILL BE OBTAINED. SINCE THE USE OF OUR PRODUCTS IS BEYOND OUR CONTROL, NO GUARANTEE EXPRESSED OR IMPLIED IS MADE AS TO THE EFFECTS OF SUCH USE, OR THE RESULTS TO BE OBTAINED.