

# MATERIAL SAFETY DATA SHEET

Solvon® ACS, Revision 07, 9/2007



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## Solvon® ACS

### 1. Product Identification

**Product Name:** Solvon® ACS  
**Chemical Name:** nPropylBromide  
**Chemical Family:** Halocarbon, Alkyl-Bromide (nPB)

**Supplier:** Poly Systems USA, Inc. **Tel.** (201)437-6500  
**Address:** P.O.Box 49, 39 Avenue C, **Fax.** (201)437-0366  
Bayonne, NJ 07002 **eMail:** HSE@solvon.com

### 2. Composition and Information on Ingredients

Hazardous Components:

Chemical Name	CAS No.	Wt %	Exposure Limit
n-Propyl bromide	106-94-5	> 99.4	100 ppm*

\*Mfg recommended, not established by OSHA, based on study by independent sources.

### 3. Hazards Identification

Overexposure, Signs and Effects

**Eyes:** May cause irritation.  
**Skin:** May cause skin irritation and dryness.  
**Ingestion:** Low toxicity, not expected to be a hazard in normal use.  
**Inhalation:** May irritate the nose, throat and lungs, Exposure to high doses may cause central nervous system depression. Such doses may also cause adverse effect in liver, kidney and lung.  
**Carcinogenicity:** None

### 4. First Aid Measures

**Eyes:** Spread the eyelids, flush with ample amount of water for 20 minutes. Get medical attention.  
**Skin:** Remove contaminated clothing, wash skin thoroughly with soap and water.  
Get medical attention if irritation developed.  
**Inhalation:** Remove person to fresh air. Get medical attention.  
**Ingestion:** Wash mouth with plenty of water. Give a glass of water to drink (only if conscious). Get medical attention.

## 5. Fire Fighting Measures

<b>Flash Point</b>	None
<b>Flammable/Explosion limits</b>	4.0-8.0 (% by Volume in Air)
<b>Autoignition Temp</b>	490°C for n-propyl bromide.
<b>Extinguishing Media:</b>	Carbon dioxide, dry chemical powder, alcohol foam or polymer foam (class ABC, BC fire extinguisher). Water may not be effective.
<b>Fire Fighting Procedures:</b>	Wear self contained breathing apparatus and protective gear to prevent eye and skin contact.
<b>Unusual Hazard:</b>	Containers may explode in fire. Toxic and corrosive fumes may be released.

## 6. Accidental Release Measures

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.

## 7. Handling and Storage.

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

## 8. Exposure Controls, Personal Protection

**Ventilation requirements:** Provide good local ventilation where needed to keep emissions below the recommended exposure limits.

### Personal Protection

**Eyes:** Chemical safety goggles or face shield with safety glasses  
**Skin:** Wear chemically resistant gloves, clothing and boots to minimize contact with skin.  
**Respiratory:** Use approved respirators if vapor or misting occurred, or in insufficient ventilated area.

## 9. Physical and Chemical Properties

<b>Appearance:</b>	Clear, colorless liquid	<b>Specific Gravity:</b>	1.35
<b>Odor:</b>	Characteristic odor.	<b>Boiling Point:</b>	162°F (71°C)
<b>Evaporation Rate:</b>	6.0 nBuOAc=1.0	<b>Volatile (%):</b>	100
<b>Vapor Pressure:</b>	~112 mm Hg at 20°C	<b>Vapor Density:</b>	~4.3
<b>Solubility in Water:</b>	0.25 g/100ml at 20°C	<b>Flash Point:</b>	None
<b>Flammable Limits:</b>	4.0-8.0 (% in air)		

## 10. Stability and Reactivity

**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, carbon monoxide and carbon dioxide  
**Polymerization:** Will not occur

## 11. Toxicological Information

n-Propyl bromide      LD50/Rat, oral -- 4260 mg/Kg  
                                  LC50/Rat, inhalation -- 253000 mg/m<sup>3</sup>/0.5 hr

The toxicological properties of this blend have not been determined. The information for NPB is listed in Section III in addition to the following:

**Chronic Toxicity:**      No information available

**Mutagenicity:**          Not mutagenic by Ames Test

**Carcinogenicity:**      Not known to be a carcinogen. Not included in NTP 7th Annual Report on Carcinogens.  
                                  Not classified by IARC

## 12. Ecological Information

ODP = 0.012, GWP = 0.31, Half life in the atmosphere 11 days.

## 13. Disposal Considerations

Dispose of waste in compliance with all applicable government regulations.

## 14. Transport Information

Not Regulated

## 15. Regulatory Information

All the components of this product are listed on the TSCA inventory.

## 16. Other Information

HMIS Rating:	Health	1	Reactivity	0	Flammability	0	Protective equipment	Sec. 8
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