



EMERGENCY CONTACT:  
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## Solvon® FB2, FB5, FB7

US Patents 6,660,701 and 7,053,036

### 1. Product Identification

**Product Name:** Solvon® FB2, FB5, FB7  
**Part No.:**  
**Manufacturer:** Poly Systems, a division of The Solvents Company  
**Address:** P.O. Box 1015, Great Neck NY, 11023  
Tel. (631)595-9300 Fax. (631)595-9302

**Intended Use:** For industrial use only. Refer to the Technical Data Sheet to check for recommendations and limitations.

### 2. Composition and Information on Ingredients

Hazardous Components:

Components:	CAS No.	Wt %
n-Propyl bromide	106-94-5	20 - 80
1,2 epoxybutane; 1,2 Butylene Oxide	106-88-7	< 1
t-Butanol	75-65-0	< 3
1,1,1,3,3 pentafluorobutane	406-58-6	20 - 80

### 3. Hazards Identification

Overexposure, Signs and Health Effects

**Eyes:** May cause irritation.

**Skin:** Prolonged contact may cause skin irritation and dryness. Normal care should be taken to maintain dermal hygiene.

**Ingestion:** May cause gastrointestinal irritation and abdominal pain and cause target organ effect.

**Inhalation:** Remove person to fresh air. Get medical attention.

**Target Organ Effects:** Central Nervous System (CNS) Depression: Signs/symptoms may include headache, dizziness, drowsiness, incoordination, nausea, slowed reaction time, slurred speech, giddiness, and unconsciousness. Prolonged or repeated exposure may cause: Liver Effects: Signs/symptoms may include loss of appetite, weight loss, fatigue, weakness, abdominal tenderness and jaundice. Contains a chemical or chemicals which can cause birth defects or other reproductive harm.

### 4. First Aid Measures

**Eyes:** Spread the eyelids, flush with ample amount of water for 20 minutes. Remove contact lenses, if worn. Get medical attention if irritation develops.

**Skin:** Remove contaminated clothing, wash skin thoroughly with soap and water. Get medical attention if irritation develops.

**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. Do not induce vomiting without medical advice.

### 5. Fire Fighting Measures

Extinguishing Media:	Carbon dioxide, dry chemical powder, alcohol foam or polymer foam (class ABC, BC fire extinguisher). Water may not be effective.
Fire Fighting Procedures:	Wear self-contained breathing apparatus and protective gear to prevent eye and skin contact.
Combustion Hazard:	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. Do not dispose in drain or waterway.

### 7. Handling and Storage

Handling:	Handle with care.
Storage:	Store in a dry, cool, well ventilated area. Keep containers closed. Keep away from heat, sparks, open flame, and direct sunlight.

### 8. Exposure Controls, Personal Protection

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

#### Personal Protection

**Eyes:** When contact with material is possible, use chemical safety goggles or face shield with safety glasses.

**Skin:** Wear chemically resistant gloves, clothing and boots to minimize contact with skin.

**Respiratory:** Under normal conditions, not required. If misting occurs or in insufficiently ventilated areas, use NIOSH-approved organic vapor air-purifying respirator, self-contained breathing apparatus, or air-supplied respirators where there may be potential for overexposure.

#### Exposure Guidelines:

Chemical Name	OSHA	Other
n-Propyl bromide	Not Established	EPA Recommendation TWA- 25ppm
1,2 epoxybutane; 1,2 Butylene Oxide	Not Established	AIHA TWA- 2ppm
t-Butanol	TWA- 100ppm 15min STEL- 150ppm	NIOSH TWA- 100ppm 15min STEL- 150ppm
1,1,1,3,3 pentafluorobutane	Not Established	1000 ppm mfg. suggestion

### 9. Physical and Chemical Properties

Appearance:	Clear, colorless liquid	Specific Gravity:	1.30
Odor:	Characteristic odor	Boiling Point:	113°F (45°C)
Evaporation Rate:	6.0 nBuOAc=1.0	Volatile (%):	100
Vapor Pressure:	N/D	Vapor Density:	-4.7
Solubility in Water:	0.20 g/100ml at 20°C	Autoignition Temp:	490°C for n-propyl bromide
Flammable Limits:	4.0-9.0 (% in air)	Flash Point:	None

## 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
1,2 epoxybutane; 1,2 Butylene Oxide	LD50/Rat, oral -- 1180 mg/Kg LD50/Rabbit, dermal -- 1760 mg/Kg.
t-Butanol	LD50/Rat, oral -- 3500 mg/Kg
1,1,1,3,3 pentafluorobutane	LD50/Rat, oral -- >2000 mg/Kg LD50/Rat, inhalation, 4hr -- >10%

The toxicological properties of this blend have not been determined. The information is listed in Section 3 in addition to the following:

Chronic Toxicity:	Inhalation, after repeated exposure, rat, 30,000 ppm, observed effect (body weight).
Mutagenicity:	Not mutagenic by Ames Test
Carcinogenicity:	Not included in NTP 7th Annual Report on Carcinogens. Not classified by IARC

## 12. Ecological Information

ODP:	CAS #106-94-5: 0.0049 CAS #406-58-6: 0
GWP:	CAS #106-94-5: 0.31 CAS #406-58-6: 890
Half life in Atmosphere:	11 days
Koc, Organic-carbon partition coefficient:	330
Hydrolysis half-life:	26 Days
Volatilization half-life from surface water:	2 days (average)
LC50 (96hr) for fathead minnows:	CAS #406-58-6: Brachydanio rerio, LC50, 96h, >200 mg/l CAS #106-94-5: 67 mg/l
LOG Kow (Bioaccumulation):	2.1 (Low)
Bioconcentration factor:	CAS #406-58-6: log Po/w ca. 1.61 CAS #106-94-5: 23

## 13. Disposal Considerations

Dispose of waste in compliance with all applicable government regulations.

## 14. Transport Information

US DOT: Not regulated. Description: Not hazardous for transportation  
ADR / IMDG / IATA: Not restricted for transport.

### 15. Regulatory Information

SNAP:	Approved by USEPA (Federal Register May 30, 2007 Section 612 Clean Air Act).
NAFTA:	3814.00.50.90 Preference Criteria B – Originating in NAFTA territory
TSCA:	All of the components of this product are in the EPA TSCA inventory and are in compliance with 15 USC 2601-2629. Inventory 8(b)
NESHAP:	N/A
RCRA:	N/A
HAP:	N/A
VOC:	250 - 900 g/l
SARA:	SARA 313 contains 1,2 Epoxybutane and t-Butanol which are subject to the reporting requirements of SARA Section 313, Title III
CERCLA:	40 CFR 302.4 Component: 1,2-Butylene oxide
State Regulation:	CA: n-Propyl bromide- Known to the state of California to cause reproductive effects. CAL/OSHA PEL 5ppm. 1,2-Butylene oxide: Known to the state of California to cause cancer. NJ: Right-to-Know - Contains: Nitromethane, 1,2-Butylene oxide
WHMIS:	Class D Division 2B, WHMIS – HC-1
Australia (AICS):	Components Registered
Canada (DSL):	Components Registered
EEC (EINECS):	Components Registered
Japan (MITI):	Components Registered
South Korea (ECL):	Components Registered

### 16. Other Information

#### HMIS Rating

Health:	1
Flammability:	0
Reactivity/Physical Hazard:	0
PPE:	See Section 8. Personal Protection rating to be supplied by user depending on use conditions.

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