



# TULSTAR PRODUCTS, INC.

5510 SOUTH LEWIS AVENUE • TULSA, OK 74105 • (918) 749-9060 • FAX (918) 747-1444  
TULSTAR@TULSTAR.COM • WWW.TULSTAR.COM

## MATERIAL SAFETY DATA SHEET

### 1. Material Identification

Product Name: NPB (n-Propyl Bromide)  
Cas No.: 106-94-5  
Chemical Family: Halogenated hydrocarbons  
Primary Usage: Solvent

### 2. Hazardous Ingredients/Identity Information

Halogenated hydrocarbon

### 3. Physical Data

Boiling Point 159 F.  
Freezing Point -166 C.  
Vapor Pressure 139 mmHg  
Vapor Density 4.24  
Water Solubility .25g/100g H<sub>2</sub>O @ 20°C.  
Specific Gravity 1.353  
Evaporation Rate Not Determined  
Decomposition Temp. >400 degrees F.  
Appearance Clear colorless liquid  
Odor Sweet odor

### 4. Fire and Explosion Data

Flash Point None  
Flammable Limits LEL 4.0 UEL 7.8  
Extinguishing Media Material is not flammable.  
Special Fire Fighting Procedures

Fire fighters should wear NIOSH-approved, self-contained breathing apparatus in positive pressure mode.

Unusual Fire/Explosion Hazards

Product will decompose at temperatures above 400 degrees F releasing fumes of carbon monoxide, carbon dioxide, hydrogen bromide, and/or bromine. Material forms a flammable mixture with air over a narrow concentration range (4-8%). Avoid spark, flame and high heat.

### 5. HMIS HAZARD RATINGS

NPB HAZARD RATING		HMIS RANK
HEALTH HAZARD	2	0 INSIGNIFICANT
FIRE HAZARD	0	1 SLIGHT
REACTIVITY HAZARD	0	2 MODERATE
		3 HIGH
		4 EXTREME

## ACUTE EXPOSURE

### SIGNS AND SYMPTOMS BY ROUTES OF EXPOSURE AND FIRST AID PROCEDURES

**INHALATION:** High concentrations are irritating to the respiratory tract. May cause headache, dizziness, nausea vomiting narcosis in confined or poorly ventilated areas. Remove victim to fresh air. Provide oxygen if breathing is difficult. Administer cardiac pulmonary resuscitation (CPR) if victim is not breathing. Seek medical attention.

**SKIN:** Brief contact may cause slight irritation, prolonged contact may cause moderate irritation and dermatitis. This problem may be accentuated by liquid becoming trapped against the skin by contaminated clothing and shoes. Remove contaminated clothing. Wash effected area with plenty of soap and water. Launder contaminated clothing before reuse. If irritation persists, seek medical attention.

**EYES:** Contact or high vapor concentration may cause irritation and pain. if irritation persists, seek medical attention. Flush eyes with water for 15 minutes while holding eyelids open. If irritation persists, seek medical attention.

**INGESTION:** Swallowing of this material may result in irritation of the mouth and gastrointestinal tract, abdominal pain and vomiting in addition to effects similar to those caused by inhalation. If victim is conscious, have him drink large amounts of water. DO NOT induce vomiting. DO NOT give anything by mouth to an unconscious person. Seek immediate medical attention.

Workplace exposure limit for 8 hour workday: 100ppm

Carcinogenicity	NTP:	Not listed
	IARC:	Not listed
	OSHA:	Not regulated
California Proposition 65:		Not listed

#### 6. Special Protective Equipment and Ventilation

Respiratory Protection	At high levels of concentration, use self-contained breathing apparatus.
Ventilation Requirements	Use adequate mechanical or local exhaust ventilation to keep vapor and mist levels as low as possible.
Eye/Face	Splash-proof chemical safety goggles or face shield. Contact lenses should not be worn when working with this material.
Protective Gloves	Gloves impervious to chemicals. Neoprene recommended. Do not use natural rubber gloves.
Protective Clothing	Clean body-covering, apron and boots not made of natural rubber.
Work/Hygienic Practices	Eliminate body contact with this chemical. Do not eat, drink or smoke until after work washing.
Special/Other	Provide a safety eye bath at work area. Provide a safety shower.

#### 7. Reactive Hazards

Stability	Stable.
Conditions to Avoid	Avoid temperatures above 400 F (204.4C).
Hazardous Polymerization	Will not occur.
Incompatibility (material to avoid)	Avoid strong oxidizers and acids. May attack some plastic, rubber and coatings. Thoroughly test for all applications before use.

8. Precautions for Safe Handling and use  
**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED**  
Evacuate the areas. Stop leak if this can be done without risk. Contain spills and cover with vermiculite or sand.
- WASTE DISPOSAL METHOD**  
Dispose of in accordance with Local, State and Federal regulations. Do not flush to sanitary sewer or waterway. Refer to RCRA regulations 40 CFR 260-281 for waste disposal instructions.
- PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE**  
Keep container tightly closed when not in use. Protect from extreme temperatures. Isolate from incompatible materials. Do not store near food.
- OTHER PRECAUTIONS**  
Keep this chemical out of reach of children. Minimize body contact with this product. Avoid inhaling fumes or vapors. 9.
- Transport Information**  
**Hazardous Materials Descriptions and Proper Shipping Names**  
(Vapor degreasing solvent, halogenated hydrocarbon mixture,n.o.s.)
- Hazard Class - Non-flammable liquid  
Identification Number - UN 1993  
Packing Group - III  
Label(s) Required - None  
Quantity Limitations- Not Regulated  
Marine and Air Transportation  
Refer to the pertinent information regarding regulations UN2344.
10. **Regulatory Information**  
The ingredients of this product are on the TSCA inventory.
11. **Emergency Telephone Information**  
**24 HOUR EMERGENCY CONTACT NUMBERS CHEMTREC:**  
In the U.S.A., CANADA, PUERTO RICO AND THE  
U.S. VIRGIN ISLANDS CALL  
(800)424-9300  
OUTSIDE OF THE NORTH AMERICAN CONTINENT CALL  
(918)749-9060