



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

Aug 31, 2004

Company Information

Company Information:	TULSTAR PRODUCTS, INC. 5510 S Lewis Avenue Tulsa, OK 74105
Phone Number:	(918) 749-9060
Fax Number:	(918) 747-1444
Email Address:	tulstar@tulstar.com
Emergency Phone Number:	CHEMTREC 800-424-9300 (24 hours)

Material Identification

Product Name:	Stabilized NPB (n-Propyl Bromide)
CAS No:	106-94-5
Chemical Family:	Halogenated hydrocarbons
Primary Usage:	Specialty cleaning solvent.

Hazardous Ingredients/Identity Information

Halogenated hydrocarbon mixture. Trade secret pending*

The composition of this product is considered to be a trade secret and is withheld in accordance with the provisions of 29 CFR 1910.1200

Physical Data

Boiling Point	159 °F. (70.9 C.)
Freezing Point	-166 °C.
Vapor Pressure	143 mmHg
Vapor Density	4.3
Water Solubility	1.32
Evaporation Rate	Not Determined
Decomposition Temp.	>400 degrees C.
Appearance	Clear colorless liquid
Odor	Slight Ethereal
Isopropyl bromide	<1%

Fire and Explosion Data

Flash Point	None
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°C releasing fumes of carbon monoxide, carbon dioxide, hydrogen bromide and/or bromine.

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 Exposures

SIGNS AND SYMPTOMS BY ROUTES OF EXPOSURE AND FIRST AID PROCEDURES

<u>INHALATION:</u>	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.
<u>SKIN:</u>	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.
<u>EYES:</u>	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.
<u>INGESTION:</u>	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: 100 ppm

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

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. Viton & Norfoil 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.

Reactive Hazards

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

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.

Transport Information

Hazardous Materials Descriptions and Proper Shipping Names
(Vapor degreasing solvent, halogenated hydrocarbon mixture, n.o.s.)

Hazard Class - Non-flammable liquid
Packing Group - III
Label(s) Required - None
Quantity Limitations- Not Regulated
Marine and Air Transportation

Regulatory Information

The ingredients of this product are on the TSCA inventory.