

MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Uniplex FRX 50-28

Synonyms: Tetrabromobis Phenol S Bis (2,3-dibromopropyl ether)

MANUFACTURER:

Unitex Chemical Corporation
520 Broome Road
P.O. Box 16344
Greensboro, NC 27406

EMERGENCY TELEPHONE NUMBERS:

Emergency Telephone Number: CHEMTREC 1 (800) 424-9300
International 1 (703) 527-3887
Telephone Number for Information:
(336) 378-0965 (Monday - Friday 8:00 a.m. - 5:00 p.m.)

2. COMPOSITION/INFORMATION ON INGREDIENTS

| <u>Components</u> | <u>% (optional)</u> | <u>OSHA PEL</u> | <u>ACGIH TLV</u> | <u>CAS NO.</u> |
|-------------------------------|---------------------|-----------------|------------------|----------------|
| Tetrabromobis Phenol S | > 99% | Not Established | | 42757-55-1 |
| Bis (2,3-dibromopropyl ether) | | | | |

3. HAZARDS IDENTIFICATION

Emergency Overview: Not considered hazardous under normal conditions of use. Exposure to mist or spray may cause irritation of respiratory passages.

Potential Health Effects: Skin, eye, and respiratory tract irritation.

Eye Contact: May cause mild to moderate eye irritation.

Skin Contact: May cause skin irritation, especially on prolonged contact.

Ingestion: May cause gastrointestinal irritation, nausea, vomiting, and diarrhea.

Chronic: May aggravate existing skin, eye, and lung conditions. LD50 (oral, mouse) is greater than 10,000 mg/kg.

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4. FIRST AID MEASURES

Inhalation: Remove to fresh air if coughing, soreness in respiratory tract, chest tightness, or difficulty in breathing occurs.

Eye Contact: Immediately flush with large quantities of water for at least 15 minutes, while holding the eyelids open. Do not attempt to neutralize with chemical agents. Contact a physician if irritation persists.

Skin Contact: Immediately remove contaminated clothing and flush area with large quantities of water for at least 15 minutes. Contact a physician if irritation persists.

Ingestion: Emesis is not advisable for treatment of ingestion of this chemical. A soft nasogastric tube may be passed and suction performed if done early after ingestion. If a longer time has passed from ingestion of the chemical, administration of a cathartic, such as magnesium citrate, would be advised.

5. FIRE FIGHTING MEASURES

Flash Point: >510°F (>265°C) COC
Autoignition Temperature: ND

General Hazard: This product sinks in water. Treat as burning oil.

Fire Fighting Instructions: Extinguishing media--water spray; carbon dioxide; foam; or dry chemical. Cool exposed containers with water spray. Wear self-contained breathing apparatus in confined areas.

Hazardous Combustion Products: Combustion in the presence of other materials may result in the release of Hydrogen Bromide.

6. ACCIDENTAL RELEASE MEASURES

Land Spill: Scrape up spills and place in labeled waste container(s) for disposal.

Water Spill: Vacuum off contamination from water and place in labeled waste container(s) for disposal.

7. HANDLING AND STORAGE

Storage Temperature: 30°C Storage Pressure: Pressureless

General: Always mix well before using. Product may congeal or stratify if cold. Warm to 86°F (30°C) and mix well before using.

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8. EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Controls: Local exhaust ventilation recommended.

Personal Protection: Chemical splash-proof goggles, with rubber, PVC, or plastic gloves.

Respirator: None required under normal conditions of use. NIOSH/MSHA-approved organic vapor cartridge respirator can be used.

Protective Clothing: Standard work clothing and work shoes/boots.

9. PHYSICAL AND CHEMICAL PROPERTIES

| | | | |
|---------------------|----------------------|-------------------------|-------------------|
| Vapor Pressure | : <0.001 mHg @ 25° C | Vapor Density (Air = 1) | : ND |
| Specific Gravity | : 2.3 | Evaporation Rate | : < 1 |
| Solubility in Water | : Insoluble | Freezing Point | : 110-120°C (DSC) |
| pH | : ND | Odor | : Characteristic |
| Boiling Point | : >400°C | Appearance | : Whitepowder |
| Viscosity | : ND | Physical State | : Powder |

10. STABILITY AND REACTIVITY

General: Stable. Hazardous polymerizing will not occur.

Incompatible Materials and Conditions to Avoid: None Known.

Hazardous Decomposition: Hydrogen Bromide and oxides of Carbon (Carbon Monoxide/Carbon Dioxide) when heating over 280°C.

11. TOXICOLOGICAL INFORMATION

Route(s) of Entry:

Inhalation? Yes Skin? No Ingestion? Yes

Health Hazards (Acute and Chronic):

Acute Oral LD50 (mouse) > 10,000 mg/kg. Acute dermal LD50 (mouse) > 10,000 mg/kg. When Mice were exposed to a concentration of 87 g/m³ of product for 4 hours, no deaths occurred during the exposure or for the following 7 days observation period. In a 90 day feeding study in Mice employing dosage levels of 0.1 or 1.0% product (-200 or 2,000 mg/kg) per day. No deaths Deaths or adverse effects were noted.

Carcinogenicity:

NTP? No IARC Monographs? No OSHA Regulated? No

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12. ECOLOGICAL INFORMATION

Not available.

13. DISPOSAL CONSIDERATIONS

Dispose of product in an approved chemical waste landfill, or incinerate, in accordance with applicable Federal, State, and local regulations.

14. TRANSPORT INFORMATION

Not regulated by DOT.

15. REGULATORY INFORMATION

Components are found in TSCA inventory.

This product does not contain any ingredients subject to the reporting requirements of Section 313, Title III, Part 372.

This product is not listed in SARA Section 311/312.

16. OTHER INFORMATION

National Fire Protection Association (NFPA) Rating:

| <u>Health</u> | <u>Flammability</u> | <u>Reactivity</u> |
|---------------|---------------------|-------------------|
| 1 | 1 | 0 |

Hazardous Materials Identification System (HMIS) Rating:

| <u>Health</u> | <u>Flammability</u> | <u>Reactivity</u> |
|---------------|---------------------|-------------------|
| 1 | 1 | 0 |

Revision Summary:

D.Young – Review 05/06/11