

# MATERIAL SAFETY DATA SHEET

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** Uniplex FRP-64

**Synonyms:** Brominated aromatic ether, poly ( 2,6-Dibromophenylene) oxide

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### MANUFACTURER:

Unitex Chemical Corporation  
520 Broome Rd.  
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.)

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## 2. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Components</u>	<u>% (optional)</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>	<u>CAS NO.</u>
Poly (2,6 - Dibromophenylene) oxide	> 99%	15 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>	69882-11-7
Methanol	< 0.75	200 ppm	200 ppm	67-56-1
ortho-Xylene	< 0.25	100 ppm	100 ppm	95-47-6

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## 3. HAZARDS IDENTIFICATION

Emergency Overview: Store in closed containers in cool, dry area. High temperature causes slow decomposition.

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. Uniplex FRP-64 LD<sub>50</sub> (rabbits) is greater than 3000 mg/kg.

Ingestion: May cause gastrointestinal irritation, nausea, vomiting, and diarrhea. Uniplex FRP-64 oral LD<sub>50</sub> (rats) is 21,000 mg/kg. Xylene LD<sub>50</sub> (humans) is 50 mg/kg. Methanol LD<sub>50</sub> (humans) is 428 mg/kg.

Chronic: May aggravate existing skin, eye, and lung conditions.

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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. Long term exposure may cause pneumonia.

**Product Name: Uniplex FRP-64**

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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: If patient is conscious, give several glasses of water for dilution effect and contact a physician. Do not induce vomiting. Do not give an unconscious person anything by mouth.

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**5. FIRE FIGHTING MEASURES**

Flash Point: Not applicable

General Hazard: This product sinks in water.

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 and/or Bromide.

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**6. ACCIDENTAL RELEASE MEASURES**

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

Water Spill: Use appropriate containment to avoid runoff or release to sewer or waterways.

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**7. HANDLING AND STORAGE**

Storage Temperature: Ambient                      Storage Pressure: Pressureless

General: Store in closed containers in a cool, dry area.

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**8. EXPOSURE CONTROL/PERSONAL PROTECTION**

Engineering Controls: Local exhaust ventilation recommended to minimize dusting.

Personal Protection: Cup type safety goggles, with neoprene gloves.

Respirator: None required under normal conditions of use. Wear NIOSH approved dust respirator where dusting occurs.

Protective Clothing: Rubber or plastic apron.

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**Product Name: Uniplex FRP-64**

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**9. PHYSICAL AND CHEMICAL PROPERTIES**

Vapor Pressure	: Nil at 77°F	Evaporation Rate	: N/A
Specific Gravity	: 2.3	Melting Point	: N/A
Solubility in Water	: 1.6 ppm at 77°F	Physical State	: Powder
Boiling Point	: Decomposes 750-930°F	Odor	: Phenolic odor
Vapor Density (Air = 1)	: N/A		: Light Brown powder

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**10. STABILITY AND REACTIVITY**

General: Stable. Hazardous polymerizing will not occur.

Incompatible Materials and Conditions to Avoid: None known. Combustion in the presence of other fuels may result in the release of hydrogen bromide.

Hazardous Decomposition: Hydrogen Bromide and /or Bromine may be released.

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**11. TOXICOLOGICAL INFORMATION**

Not listed as a carcinogen by IARC, NTP, OSHA, or ACGIH.

Acute oral LD<sub>50</sub> (rats) is greater than 21.5g/kg. Acute dermal LD<sub>50</sub> (rabbits) is greater than 3g/kg. The compound is minimally irritating to the eye and is slightly irritating to the skin of rabbits. It is not a skin sensitizer to guinea pigs. No test animal deaths occurred during 6 hour inhalation exposure and 14 day post exposure period to the compound at a maximum concentration of 28.5 mg/L. The compound is judged non-mutagenic in the Ames test. A 28 day inhalation study in rats showed some instances of interstitial pneumonia at 1.25 mg/L. No acute health hazards other than irritation are known. Chronic inhalation of dust may cause respiratory effects.

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**12. ECOLOGICAL INFORMATION**

Not available.

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**13. DISPOSAL CONSIDERATIONS**

Dispose of waste in an approved chemical incinerator equipped with acid scrubber or in a chemical landfill as allowed by current laws and regulations.

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**14. TRANSPORT INFORMATION**

Not regulated by DOT

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**15. REGULATORY INFORMATION**

Components are found in TSCA and DSL Inventory. Canadian WHMIS Hazard Class and Division = not controlled.

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.

This product is not FDA approved.

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**16. OTHER INFORMATION**

National Fire Protection Association (NFPA) Rating:

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

Hazardous Materials Identification System (HMIS) Rating:

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

Revision Summary:

2/12/02 - Jim Day

6/15/06 – J. Day