



# **FIRE Retardants Inc.**<sup>TM</sup>

*The Decision You Make May Save A Life!*

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## **MATERIAL SAFETY DATA SHEET FOR COATINGS, RESINS, AND RELATED MATERIALS**

DATE OF PREP: August 04, 2003

### **SECTION I**

**EMERGENCY TELEPHONE NUMBER: 800-535-5053** (for emergency info only)

**PRODUCT CLASS:** Paint

**MANUFACTURER'S CODE IDENTIFICATION:**

No. 50 - 44 Intumescent Fire Retardant Coating

for Structural Steel Fire Protection

Color: Off White

### **SECTION II – HAZARDOUS INGREDIENTS**

<b>INGREDIENT</b>	<b>Percent</b>	<b>ACGIH TLV PPM</b>	<b>OSHA PEL PPM</b>	<b>LEL</b>	<b>Vapor Pressure</b>
Xylene CAS 1330-20-7	1-3	100	100	1.0	6.6
Notes: (1) Technical grade xylene contains 18-20% ethyl benzene. Ethyl benzene has a PEL/TLV of 100 PPM (125 PPM-STEL); It has a CAS# of 100-41-4. Ethyl benzene is subject to the reporting requirements of Section 313 of Sara Title III. Ethyl benzene was classified as possibly carcinogenic to humans on the basis of sufficient evidence for carcinogenicity in experimental animals but inadequate evidence for cancer in exposed humans.					
VM&P Naphtha CAS 64742-89-8	31-36	300	300	0.9	5.2
Mineral Wool CAS (mixture)	10-15	10 mg/m3	10 mg/m3	NA	NA
Talc CAS 14807-96-6	2-7	2 mg/m3	2 mg/m3	NA	NA
Titanium Dioxide CAS 13463-67-7	3-8	10 mg/m3	10 mg/m3	NA	NA
Wax, Chlorinated CAS 163449-39-8 Blend	4-9	NE	NE	NA	NA
1, 3, 5, Triazine, 2, 4, 6, Triamine CAS 108-78-1	1-6	NE	NE	NA	NA

### SECTION III

### PHYSICAL DATA

Boiling Range: 260-289F  
Evaporation Rate: Slower than ether  
Weight Per Gallon: 10.1 lbs.

Vapor Density: Heavier than air  
Percent Volatile by Volume: 52.4  
V.O.C. 3.45 lbs./gl. (413 g/L)

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### SECTION IV

### FIRE AND EXPLOSIVE HAZARD DATA

**DOT CATEGORY:** Paint  
Flammable Liquid

**FLASH POINT:** 54F (12C)  
**LEL:** 0.9

#### **EXTINGUISHING MEDIA:**

Foam, carbon dioxide, dry chemical.

#### **UNUSUAL FIRE AND EXPLOSION HAZARDS:**

**Fire Hazard:** Dangerous, flammable when exposed to heat or flame.

**Explosion Hazard:** Moderate, in the presence of heat or flame.

**SPECIAL FIRE FIGHTING PROCEDURES:** Wear goggles and self-contained breathing apparatus.  
Water may be used to reduce the rate of burning and for cooling fire-exposed containers.

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### SECTION V

### HEALTH HAZARD DATA

**THRESHOLD LIMIT VALUE:** See Section II

#### **EFFECTS OF OVEREXPOSURE:**

**Eye Contact:** May cause eye irritation. Direct contact with the liquid or exposure to its vapor or mists may cause burning, tearing and redness.

**Skin Contact:** May cause skin irritation. Repeated exposure to this material may cause redness and burning, drying and cracking of the skin and dermatitis. This product may be absorbed through the skin. Persons with pre-existing skin disorders may be more susceptible to the effects of this material.

**Inhalation (Breathing):** Toxic by inhalation. Exposure to vapors or mists may cause irritation of the nose and throat, signs of nervous system depression (e.g. drowsiness, dizziness, loss of coordination and fatigue), or irregular heart beats (arrhythmias). persons with impaired lung function or asthma-like conditions may experience additional breathing difficulties due to the irritant properties of this material. Overexposure can lead to loss of consciousness, death.

**Ingestion (Swallowing):** Ingestion of excessive quantities may cause irritation of the digestive tract, signs of nervous system depression (e.g. drowsiness, dizziness, loss of coordination and fatigue). Aspiration hazard – this material can enter lungs during swallowing or vomiting and cause chemical pneumonitis and pulmonary edema/hemorrhage, death.

**Comments:** Xylene has not been identified as a carcinogen (Group 1) by NTP, IARC or OSHA. Has been associated with chromosome effects in workers exposed to high concentrations. Intentional misuse by deliberate inhalation of the solvent Xylene has been shown to cause liver, kidney, brain damage, and death. Pre-existing heart disorders may be aggravated by exposure to this material. Medical conditions prone to aggravation by exposure: respiratory allergies, chronic disease of the skin, nose, central nervous system and eyes.

## **SECTION V      HEALTH HAZARD DATA Cont'd.**

**PHYSIOLOGICAL EFFECTS SUMMARY (TALC):** New York State Talc has not shown any carcinogenicity in animal studies. Epidemiologic studies in humans have been interpreted in conflicting ways with no clear evidence of an increased risk of lung tumors in association with exposure.

Exposure to excessive quantities of industrial talc can result in scarring of the lungs (talcosis) or of the covering of the lungs (pleural thickening). Talcosis may produce no symptoms or may be associated with nonspecific symptoms. Both conditions can be detected by chest radiograph examination. Bronchial irritation (bronchitis) may cause excess sputum production.

### **EMERGENCY AND FIRST AID PROCEDURES:**

**Eye Contact:** If irritation or redness from exposure to vapors develops, move victim away from exposure and into fresh air. If irritation or redness persists, seek medical attention. For direct contact, flush the affected eye(s) with clean water. Seek medical attention.

**Skin Contact:** Remove contaminated clothing. Cleanse affected area(s) thoroughly by washing with mild soap and water. If irritation or redness develops and persists, seek medical attention.

**Inhalation (Breathing):** Move victim away from source of exposure and into fresh air. If symptoms of exposure develop, seek medical attention. If victim is not breathing, artificial respiration should be administered by qualified personnel. Seek immediate medical attention.

**Ingestion (Swallowing):** \*\*\*Seek emergency medical attention. \*\*\*This material is slightly toxic by ingestion and as aspiration hazard. If victim is drowsy or unconscious, place on the left side with the head down. Do not give anything by mouth. If victim is conscious and alert, vomiting should be induced for ingestions of large amount (more than 5 ounces in an adult) preferable with syrup of ipecac under direction from a physician or poison center. If syrup of ipecac is not available, vomiting can be induced by giving 3 tablespoons of liquid dishwashing soap in a glass of water, or by gently placing 2 fingers in the back of the throat. If possible, do not leave victim unattended.

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## **SECTION VI      REACTIVITY DATA**

**STABILITY:** Stable.

**CONDITIONS TO AVOID:** Excessive heat, sparks, open flame.

**INCOMPATIBILITY (MATERIALS TO AVOID):** Can react with oxidizing materials (e.g. Peroxides).

**HAZARDOUS DECOMPOSITIONS PRODUCTS:** Thermal decomposition in the presence of air may yield carbon monoxide and/or carbon dioxide.

**HAZARDOUS POLYMERIZATION:** Will not occur.

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## **SECTION VII      SPILL OR LEAK PROCEDURES**

### **STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:**

Absorb in dry sand, diatomaceous earth, paper or similar inert materials. Remove to an exhaust hood or isolated area with good natural ventilation and allow to evaporate to dryness.

**WASTE DISPOSAL METHOD:** Do not put liquid into drains. Incinerate under carefully controlled conditions.

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**SECTION VIII      SPECIAL PROTECTION INFORMATION**

**RESPIRATORY PROTECTION:** NIOSH – approved organic vapor respirator up to 1000 ppm, organic vapor canister up to 2%, self-contained or supplied-air apparatus for higher concentrations.

**VENTILATION:**

**LOCAL EXHAUST:** Mandatory for all except enclosed operations.

**MECHANICAL:** (General) Sufficient to keep general air concentrations below 100 ppm.

**PROTECTIVE GLOVES:** Rubber or Neoprene

**EYE PROTECTION:** Safety glasses, goggles or face shield.

**OTHER PROTECTIVE EQUIPMENT:** As required to avoid skin contact.

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**SECTION IX      SPECIAL PRECAUTIONS**

**PRECAUTIONS TO RE TAKEN IN HANDLING AND STORING:** Outdoor or detached storage is preferable. Indoor storage should be in a standard flammable liquid storage room. Do not store near heat or excessive cold.

**OTHER PRECAUTIONS:** Avoid skin contact. Do not breathe vapors. Do not allow individuals with diseases of the central nervous system, kidney, and liver to be exposed to Xylenes. Do not take internally. Keep out of reach of children. Wash after use or before eating.

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Section 313 Supplier Notification

This product contains the following toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and of 40 CFR 372:

CAS #	Chemical Name	Percent by Weight
1330-20-7	Xylena	1-3
63449-39-8	Wax, Chlorinated	4-9

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Toxic Substances Control Act (TSCA) Inventory Status:

All materials are listed on the EPA TSCA Inventory of Chemical Substances.

The information contained herein is based on the data available to us and is believed to be correct. However we make no warranty expressed or implied regarding the accuracy of the data or the results to be obtained from the use thereof. Fire Retardants Inc. assumes no responsibility for injury from the use of the product described herein.

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