



FRC EX4S

Material Safety Data Sheet

IDENTITY: FRC EX4S

SECTION I - PREPARATION/PRODUCT INFORMATION

Manufactured and Supplied By:  
PyroTech, Inc.  
1120-A Republic Drive  
Addison, IL 60101

Business Telephone: 630-628-1120  
Date Prepared: July 1, 2000  
Preparer: Roger W. Youngs  
Product Use: Flame Retardant Powder Additive

SECTION II - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

<u>HAZARDOUS COMPONENTS</u>	<u>EXPOSURE LIMITS</u>	<u>TOXICITY</u>	<u>AMOUNT</u>
CHEMICAL IDENTITY/CAS#/UN#	PEL TLV OTHER	LD50/LC50	%

NONE Known

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING POINT: N/A  
FREEZING POINT: N/A  
VAPOR PRESSURE (mm Hg): Not Determined  
VAPOR DENSITY (AIR=1): N/A  
SOLUBILITY IN WATER: Slight  
PERCENT SOLIDS: N/A  
SPECIFIC GRAVITY (H<sub>2</sub>O=1): 1.46 (calc.)  
pH: Not determined  
ODOR THRESHOLD (ppm): Not Determined  
COEF. WATER/OIL DIST.: Not Determined  
EVAPORATION RATE: N/A  
WEIGHT PER GALLON: N/A  
APPEARANCE (PHYSICAL STATE) AND ODOR:  
Powder: White Odor: Faint odor

## SECTION IV - FIRE AND EXPLOSION HAZARD DATA

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FLASH POINT (Method): Not Applicable

EXTINGUISHING MEDIA: Water, Foam, CO<sub>2</sub>, or Dry Chemical

SPECIAL FIRE FIGHTING PROCEDURE: Wear self-contained breathing apparatus and protective clothing.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Releases ammonia when strongly heated.

IGNITABLE YES:  
NO: X

CONDITIONS: Not Applicable

HMIS RATING: 0

FLAMMABLE LIMITS LEL: Not Determined  
UEL: Not Determined

AUTOIGNITION TEMPERATURE: Not Determined  
SENS. TO MECHANICAL IMPACT: Not Determined  
SENS. TO STATIC DISCHARGE: Not Determined  
HAZ. COMBUSTION PRODUCTS: None known

## SECTION V - REACTIVITY DATA

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STABILITY STABLE: X  
UNSTABLE:

CONDITIONS TO AVOID (Cond. of Reactivity): None known

INCOMPATIBILITY (Materials to Avoid): No hazardous reactions are expected to occur under normal trial conditions; however, product properties may be altered by mixing with some materials.

HAZARDOUS DECOMPOSITION OR BYPRODUCTS: Thermal decomposition in the presence of air may yield carbon monoxide, carbon dioxide and/or ammonia.

HAZARDOUS POLYMERIZATION  
MAY OCCUR:  
WILL NOT OCCUR: X

CONDITIONS TO AVOID: None known

HMIS RATING: 0

## SECTION VI - HEALTH HAZARD DATA

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### PRIMARY POINTS OF EXPOSURE

INHALATION: X  
SKIN CONTACT: X  
SKIN ABSORPTION:  
INGESTION:  
EYE CONTACT: X

### HEALTH HAZARDS

ACUTE: May cause, eye, skin, and/or respiratory tract irritation.  
CHRONIC:

### CARCINOGENICITY

NTP: No      IARC: No      OSHA: No

SIGNS AND SYMPTOMS OF EXPOSURE: See Health Hazards above.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: None known

### OECD TEST VALUES FOR:

IRRITANCY: Not Determined  
SENSITIZATION: Not Determined  
REPRODUCTIVE TOXICITY: Not Determined  
TERATOGENICITY: Not Determined  
MUTAGENICITY: Not Determined  
SYNERGISTIC PRODUCTS: Not Determined

HMIS RATING: 0

## SECTION VII - FIRST AID MEASURES

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### EMERGENCY AND FIRST AID PROCEDURES

**INHALATION:** Remove from further exposure. In case of respiratory discomfort, administer oxygen and seek medical advise.

**INGESTION:** Drink two or three cups of milk, fruit juice or water. No other first aid is normally required. However, seek medical advise if any unusual symptoms develop.

**SKIN CONTACT:** Remove contaminated clothing and cleanse skin thoroughly with soap and water. Seek medical attention if irritation, swelling, blistering or redness develop and persist.

**EYE CONTACT:** Holding the lids apart, flush contaminated eye(s) with a gentle stream of water for 15 minutes. If irritation or redness develop and persist, seek immediate medical attention.

## SECTION VIII - PRECAUTIONS FOR SAFE HANDLING AND USE

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**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:** Sweep up and place in disposal container. Flush remaining spilled material into suitable retaining areas or containers with water. Prevent spilled liquid from entering sewers, storm drains, and/or other unauthorized treatment/drainage systems and natural water-ways.

**WASTE DISPOSAL METHOD:** In accordance with all Federal, State, and Local regulations. Refer to Section X. All waste material should be reviewed to determine the applicable hazards (testing may be necessary).

**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:** Keep product containers cool and dry and away from sources of ignition. Use and store this product with adequate ventilation. Keep product containers closed when not in use.

**OTHER PRECAUTION:** In general, minimal health and safety hazards are expected from use of this product. When working with any chemical compound, prudent handling practices should be exercised and unnecessary exposure avoided. Launder saturated clothing before wearing.

## SECTION IX - CONTROL MEASURES

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**RESPIRATORY PROTECTION:** (Specify Type) The use of respiratory protection depends on vapor concentration above the time-weighted TLV. Use a respirator/gas mask with appropriate cartridges and canister (NIOSH approved if available), or supplied air equipment, depending on airborne concentrations.

### VENTILATION

*LOCAL EXHAUST:* If general ventilation proves inadequate to maintain safe vapor concentrations supplemental local exhaust may be required.

*MECHANICAL (General):* May be sufficient to keep product vapor concentration within specified time-weighted TLV ranges.

**PROTECTIVE GLOVES:** Impervious

**EYE PROTECTION:** Chemical goggles

**OTHER PROTECTIVE CLOTHING OR EQUIPMENT:** Protective clothing is advised as good chemical handling practice. The availability of eye washes and safety showers in work areas is recommended.

**WORK/HYGIENIC PRACTICES:** Wash thoroughly after handling.

## SECTION X - ADDITIONAL INFORMATION

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SPECIAL SHIPPING INFORMATION: Not available

TSC INVENTORY STATUS: Not known

SARA TITLE III:

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

None

RCRA STATUS:

The following chemical components are listed under (40 CFR 261) :

None

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