



## SAFETY DATA SHEET

### SECTION 1: IDENTIFICATION

# PyroCide™ Clear Part A

## Clear Intumescent Coating

Supplied By:  
Fire Management Systems, Inc.  
P.O. Box 1351  
Monterey, CA 93942

BUSINESS TELEPHONE: (630) 628-1120  
DATE PREPARED: October 1, 2014  
SUPERCEDES: New

Manufacturing Plant:  
PyroTech  
1120A Republic Drive  
Addison, IL 60101  
(630) 628-1120

**For Chemical Emergency  
Spill, Leak, Fire, Exposure, or Accident  
Call CHEMTREC Day or Night  
Within USA and Canada:  
1-800-424-9300 or  
1 703-527-3887 (collect calls accepted)**

**PRODUCT USE:** Resin for Clear Intumescent Flame Retardant System

### SECTION 2: HAZARD(S) IDENTIFICATION

#### GHS Classification

Flammable Liquid Hazard Category 4  
Carcinogenicity Hazard Category 2  
**Signal Word: Warning**

#### Label elements



#### Hazard Statements

Combustible liquid  
Suspected of causing cancer

#### Precautionary Statements

Keep away from heat/sparks/open flames/hot surfaces – No Smoking.  
Wear Protective gloves/protective clothing/eye protection/face protection.  
In case of fire: Use CO<sub>2</sub>, dry chemical or foam for extinction.  
IF exposed or concerned: Get medical advice/attention.  
Store in a well ventilated place. Keep cool.  
Dispose of contents/container in accordance with local and national regulations.

## SECTION 2: HAZARD(S) IDENTIFICATION (CONTINUED)

### Hazards Not Otherwise Classified (HNOC), Other Hazards

Polymerization may occur from excessive heat, contamination or exposure to direct sunlight

HMIS III RATING: 1

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENTS CHEMICAL IDENTITY/CAS#/UN#	GHS Classification	Carcinogen	AMOUNT % LESS THAN
Formaldehyde 50-00-0	Carc. 2 (H351) Acute Tox. 3 (H301) Acute Tox. 3 (H311) Acute Tox. 3 (H331) Skin Corr. 1B (H314) Eye Dam. 1 (H318) Skin Sens. 1B (H317)	IARC 1 NTP ACGIH A2	0.5%

Additional GHS classification or other information may be included in this section but has not been adopted by OSHA.

See Section 16 for full text of H phrases.

## SECTION 4: FIRST-AID MEASURES

### EMERGENCY AND FIRST AID PROCEDURES

**INHALATION:** Material is not expected to be harmful if inhaled. Remove to fresh air.

**INGESTION:** DO NOT induce vomiting unless directed to do so by medical personnel. If large quantities of this material are swallowed, call a doctor immediately. Never give anything by mouth to an unconscious person.

**SKIN CONTACT:** Wash immediately with plenty of soap and water. Remove contaminated clothing. If skin irritation occurs get medical advice.

**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.

### MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

None Known

### INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

Not applicable

## SECTION 5: FIRE FIGHTING MEASURES

### EXTINGUISHING MEDIA:

Use water spray, alcohol foam, carbon dioxide or dry chemical to extinguish fires. Water stream may be ineffective.

### PROTECTIVE EQUIPMENT:

Wear self-contained breathing apparatus and protective clothing.

**SPECIAL HAZARDS:** Keep containers cool by spraying with water if exposed to fire.

**IGNITABLE:** Yes

**HMIS III RATING:** 2

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### Personal Protections:

Wear a NIOSH certified respirator. In addition to protective equipment listed in Section 8 (Exposure Controls/Personal Protection), wear impermeable boots.

### Methods For Clean Up:

Remove sources of ignition. Cover spills with some inert absorbent material; sweep up and place in a waste disposal container. Flush spill area with water. Prevent spilled liquid from entering sewers, storm drains, and/or other unauthorized treatment/drainage systems and natural waterways. Advise authorities if large spill enters waterways or sewer.

### References To Other Sections:

See Sections 8 and 13 for additional information

## SECTION 7: HANDLING AND STORAGE

### Handling

Wear protective gloves and eye/face protection. Wash hands thoroughly after handling. Avoid breathing vapors or spray mist.

### Protection from fire and explosion

Keep away from heat, sparks and open flame. – No smoking.

### Storage

Store in original, tightly closed containers, keep dry and cool. To maintain quality store at temperatures between 40 degrees F and 90 degrees F. DO NOT FREEZE.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

**RESPIRATORY PROTECTION:** The use of respiratory protection depends on vapor concentration above the time-weighted TLV. Use a respirator with appropriate cartridges and/or 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.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (CONTINUED)

**MECHANICAL:** May be sufficient to keep product vapor concentrations 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/HYGENIC PRACTICES:** Wash thoroughly after handling.

### Exposure Limit(s)

50-00-0	Formaldehyde	
OSHA (PEL)		.75 ppm (TWA)
		2 ppm (STEL)
		2 ppm STEL 15 min
		0.5 ppm Action Level
ACGIH (TLV)		0.3 ppm (Ceiling)

**HMIS III RATING: H**

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

<b>BOILING POINT</b>	Not Available
<b>FREEZING POINT:</b>	Not available
<b>FLASH POINT</b>	76 degrees C /168 degrees F - Abel Pensky Closed Cup
<b>FLASH POINT OF THE MIXED PARTS A &amp; B</b>	149 degrees F (Seta Flash intermittent-No subsequent ignition)
<b>SOLUBILITY IN WATER:</b>	Fully water dispersible
<b>SPECIFIC GRAVITY (H<sub>2</sub>O=1):</b>	1.25 (calc.)
<b>pH:</b>	7 – 8.5
<b>ODOR THRESHOLD (ppm):</b>	Not Determined
<b>COEF. WATER/OIL DIST.:</b>	Not Determined
<b>EVAPORATION RATE:</b>	Not Available
<b>EXPLOSION LIMITS</b>	Not Available
<b>WEIGHT PER GALLON:</b>	10.4 +/- .3
<b>APPEARANCE (PHYSICAL STATE):</b>	Viscous liquid, Clear to milky white
<b>ODOR:</b>	Formaldehyde

## SECTION 10: STABILITY AND REACTIVITY

### CHEMICAL STABILITY

Stable under normal prescribed conditions

### POLYMERIZATION

May occur

## SECTION 10: STABILITY AND REACTIVITY (CONTINUED)

Conditions to avoid: Avoid contact with strong acids and oxidizing agents. Mixing as directed with a 1:1 ratio with PyroCide Clear Part B will produce a slight exothermic reaction but is normal. Do not heat material above 200 degrees F.

### HAZARDOUS REACTIONS

Reactions with acids. Exothermic reaction

### HAZARDOUS DECOMPOSITION PRODUCTS

Carbon Monoxide  
Carbon Dioxide  
Formaldehyde  
Oxides of nitrogen

**HMIS III RATING: 0**

## SECTION 11: TOXICOLOGICAL INFORMATION

### PRODUCT:

**Routes of Entry:** Dermal contact. Eye contact. Inhalation. Ingestion.

### Toxicity to Animals:

Acute Oral Toxicity (LD50): >2000 mg/kg [Rat]  
Acute Dermal Toxicity (LD50): >2000 mg/kg [Rabbit]  
Acute Inhalation Toxicity (LC50): >5 mg/l [Rat, 4h dust/mist]

### LOCAL EFFECTS ON SKIN AND EYE

Acute Irritation	dermal	Not irritating
Acute Irritation	eye	Not irritating

### ALLERGIC SENSITATION

Sensitization	dermal	No data
Sensitization	inhalation	No data

California Proposition 65 Warning – This product contains chemical(s) known to the State of California to cause cancer.

## SECTION 12: ECOLOGICAL INFORMATION

### TOXICITY, PERSISTENCE AND DEGRADABILITY, BIOACCUMULATIVE POTENTIAL, MOBILITY IN SOIL, OTHER ADVERSE EFFECTS

This material is not classified as dangerous for the environment.

#### Toxicity to Fish

LC50	Rainbow Trout	>1000 mg/l
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#### Toxicity to daphnia

EC50	Daphnia magna (Water Flea)	>100mg/l
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## SECTION 12: ECOLOGICAL INFORMATION (CONTINUED)

### PRODUCTS OF BIODEGRADATION:

Hazardous short term degradation products are not likely.

If handled as prescribed this product should not present an environmental hazard.

## SECTION 13: DISPOSAL CONSIDERATIONS

**WASTE DISPOSAL METHOD:** In accordance with all Federal, State and Local regulations.

Prevent liquid from entering sewers, storm drains, and/or other unauthorized treatment/drainage systems and natural waterways.

## SECTION 14: TRANSPORT INFORMATION

### DOT

Dangerous Goods? Below Reportable Quantities (RQ=20000 pounds)

### Canada

Dangerous Goods? Not Applicable/Not Regulated

### ICAO/IATA

Dangerous Goods? Not Applicable/Not Regulated

### IMO

Dangerous Goods? Not Applicable/Not Regulated

## SECTION 15: REGULATORY INFORMATION

**TSCA INVENTORY STATUS:** All components of this product are included on the TSCA Chemical Inventory or are not required to be listed on the TSCA Chemical Inventory.

**SARA TITLE III:** NONE

**RCRA STATUS:** NONE

## SECTION 16: OTHER INFORMATION

Full text of Hazard Phrases referred to under Section 2

### FORMALDEHYDE (Product content >0.5%)

- H301 Toxic if swallowed
- H311 Toxic in contact with skin
- H314 Causes severe skin burns and eye damage
- H317 May cause an allergic skin reaction
- H318 Causes serious eye damage
- H331 Toxic if inhaled
- H351 Suspected of causing cancer

## SECTION 16: OTHER INFORMATION (CONTINUED)

**SUPERCEDES:** New

**REASON FOR REVISION:** NA

THE INFORMATION ON THIS SAFETY DATA SHEET IS BELIEVED TO BE ACCURATE AND IT IS THE BEST INFORMATION AVAILABLE TO FIRE MANAGEMENT SYSTEMS, INC. THIS DOCUMENT IS INTENDED ONLY AS A GUIDE TO THE APPROPRIATE PRECAUTIONS FOR HANDLING A CHEMICAL BY A PERSON TRAINED IN CHEMICAL HANDLING. FIRE MANAGEMENT SYSTEMS, INC MAKES NO WARRANTY OF MERCHANTABILITY OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED WITH RESPECT TO SUCH INFORMATION OR THE PRODUCT TO WHICH IT RELATES, AND WE ASSUME NO LIABILITY RESULTING FROM THE USE OR HANDLING OF THE PRODUCT TO WHICH THIS SAFETY DATA SHEET RELATES. USERS AND HANDLERS OF THIS PRODUCT SHOULD MAKE THEIR OWN INVESTIGATIONS TO DETERMINE THE SUITABILITY OF THE INFORMATION PROVIDED HEREIN FOR THEIR OWN PURPOSES.