



# Material Safety Data Sheet

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**1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**  
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PRODUCT NAME: RAW FR Compound (All Specs)

COMPANY NAME

CHEMICAL FAMILY: Non-halogen intumescent flame retardant

JJI Technologies  
1750 SOUTH LANE  
MANDEVILLE, LA 70471  
TEL: (440) 354-2551  
FAX: (440) 354-2031

Emergency phone: (440) 354-2551  
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**2. COMPOSITION / INFORMATION ON INGREDIENTS**  
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COMPONENT/CAS #	WEIGHT	ACGIH TLV	OSHA PEL
Proprietary Composition	100%	None established**	None established *

- U.S. OSHA PEL (PNOR) for respirable dust: 5 mg/cubic meter
  - U.S. OSHA PEL (PNOR) for nuisance dust: 15 mg/cubic meter
  - \*\* ACGIH TLV (PNOC): 3mg/cubic meter
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**3. HAZARDS IDENTIFICATION**  
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EMERGENCY OVERVIEW: May cause irritation to the respiratory system and eyes on contact. Avoid contact to skin. Do not inhale powder or dust.  
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**4. FIRST AID MEASURES**  
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EYES: In case of contact, immediately flush with water for at least 15 minutes. Seek medical attention if irritation persists.

SKIN: In case of contact, wash contaminated area with warm, soapy water. Consult a physician if irritation or redness persists.

INHALATION: Remove to fresh air. Give artificial respiration or oxygen as needed. Seek prompt medical attention.

INGESTION: Wash mouth with water. Call a physician and obtain medical attention immediately.  
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**5. FIRE AND EXPLOSION DATA**  
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FLASH POINT: Not applicable

AUTO IGNITION: Not available

EXTINGUISHING MEDIA: Water, carbon dioxide, or dry chemical foam

FIRE FIGHTING PROCEEDURES: Wear self contained, positive pressure breathing apparatus.

UNUSUAL HAZARDS: As with many solid materials, any dust that is generated may be explosive when mixed with air in critical proportions and in the presence of a source of ignition.



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### 6. ACCIDENTAL RELEASE MEASURES

SPILL OR LEAK PROCEDURES: Utilize recommended protective clothing and equipment specified in Section 8. Sweep and scoop up spilled powdered material and use if uncontaminated. Keep away from drains and sewers. Contaminated spilled material should be disposed in accordance with existing federal, state, and local environmental regulations.

### 7. HANDLING AND STORAGE

SHELF LIFE: Potentially unlimited in a tightly closed container and unexposed to air, but two years from the date of manufacturing is recommended as standard procedure while the product is in use.  
HANDLING PRECAUTIONS: Avoid breathing powder or dust. Avoid contact to skin and eyes. Wash hands thoroughly after handling. Reseal containers immediately after use. Store in a cool, dry, well-ventilated area. Keep away from direct sunlight, heat, and combustion sources. Store away from foods.

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EYE PROTECTION: Goggles or safety glasses with side shields to prevent contact with product.  
SKIN PROTECTION: gloves and full body protective clothing to prevent skin contact.  
VENTILATION: Local exhaust ventilation required to maintain exposure levels below exposure limit concentrations; a 5 mg/cubic meter threshold limit is recommended.  
RESPIRATOR: Workplace ambient airborne dust concentrations should be monitored; and if the recommended exposure limit is exceeded, wear a NIOSH/MSHA approved particulate dust respirator.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

COLOR AND APPEARANCE: Off white, odorless, fine crystalline powder.  
BOILING POINT: Not applicable  
MELTING POINT: Begins to soften at 190 degrees C; starts to decompose at 210 degrees C.  
SOLUBILITY: Approximately 0.2g/100 ml of water at ambient temperature.  
SPECIFIC GRAVITY: 1.3  
BULK DENSITY: Approximately 400 g/l.  
AUTOFLAMMAABILITY: Not available

### 10. STABILITY AND REACTIVITY

STABILITY: Stable; hazardous polymerization will not occur.  
INCOMPATIBILITIES: Avoid strong acids, bases, and oxidizers.  
HAZARDOUS DECOMPOSITIONS PRODUCTS: Thermal decomposition products are carbon dioxide and ammonia, but lesser quantities of carbon monoxide, oxides of nitrogen and phosphorous, and hydrogen cyanide may be produced as well.

11. TOXICOLOGICAL INFORMATION

PRIMARY ROUTES OF ENTRY: Inhalation and eyes.

TOXICITY: LD 50 (rat)(oral): > 5000 mg/kg  
LD 50 (rabbit)(dermal): > 2000 mg/kg

ACUTE TOXIC EFFECTS: Inhalation of airborne dust may cause irritation to mucus membranes and lungs. Eye contact causes mechanical irritation. Prolonged skin contact may cause irritation to sensitive individuals.

CHRONIC TOXIC EFFECTS: No data available. No known chronic effects.

12. ECOLOGICAL INFORMATION

ECOTOXICITY AND CHEMICAL FATE INFORMATION: No data available.

13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL: Dispose in accordance with federal, state, and local environmental control regulations.

14. TRANSPORTATION INFORMATION – Not Regulated

15. REGULATORY INFORMATION

CHEMICAL INVENTORY: All components are listed in the U.S. EPA TSCA and the Canadian DSL chemical inventories. CALIFORNIA PROPOSITION 65: not applicable. SARA Section 311/312: not hazardous. SARA Section 313: not applicable.

CONEG: This composition contains no detectable or measurable quantities of residual heavy metals, such as antimony, arsenic, cadmium, chromium, lead, or mercury.

16. OTHER INFORMATION

HMIS RATINGS: Health – 1 Flammability – 0 Reactivity – 0

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