

# Material Safety Data Sheet

Complies with OSHA Hazard Communication Standard - 29CFR 1910.12000

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**Manufacturer's Name:** **Fabric Flameproofing Company**  
835 Milford Street  
Glendale, California 91203  
**Information and Emergency Telephone:** **(213) 245-1701**

## Section 1 - Product Identification

<b>Product Names:</b>	<b>FF-4</b>	<b>HFPA Codes</b>	
<b>Product Class:</b>	<b>Flame Retardant</b>	<b>Health:</b>	<b>1</b>
		<b>Flammability:</b>	<b>0</b>
		<b>Reactivity:</b>	<b>0</b>

NE = Not Established; NA = Not Applicable

## Section 2 - Hazardous Ingredients

<b>Ingredient Name:</b>	<b>C.A.S. No.:</b>	<b>%* by Wt.:</b>	<b>Exposure Limit (PEL/TLV):</b>
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\* The precise composition of this mixture is proprietary information. A more complete disclosure will be provided to a physician or nurse as needed, in the event of a medical emergency. No constituents of this mixture have OSHA established permissible exposure limits (PEL) or ACGIH established threshold limit values (TLV).

## Section 3 - Physical Data

<b>Product Weight</b>	--	<b>10.14 lb/gal</b>	<b>Evaporation Rate</b>	--	<b>Slower than Water</b>
<b>Specific Gravity</b>	--	<b>1.21</b>	<b>Vapor Density</b>	--	<b>Heavier than Air</b>
<b>Boiling Point</b>	--	<b>&gt; 212 F</b>	<b>Solubility in Water</b>	--	<b>Good</b>
<b>Volatile Volume</b>	--	<b>NA</b>	<b>pH</b>	--	<b>6 - 7</b>

Appearance and Odor: liquid, neutral color, odorless

## **Section 4 - Fire and Explosion Hazard Data**

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Flash Point -- None  
Lower Flammable Limit (LFL) -- Not established  
Upper Flammable Limits (UFL) -- Not established  
Autoignition Temperature -- Not established

### Extinguishing Media:

Material is not combustible. Use extinguishing media appropriate to surrounding fire conditions.

### Special Fire Fighting Procedures:

Cool containers with water spray. Wear full protective clothing, including self-contained breathing apparatus ( operated in the positive-pressure or pressure-demand mode). Be aware of the runoff from fire fighting operations. Do not release to sewers or waterways.

### Unusual Fire and Explosion Hazards:

Not applicable.

NFPA Hazard Codes: Health: 1; Fire: 0; Reactivity: 0  
Specific Hazard: None

## **Section 5 - Reactivity Data**

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Stability: Stable under normal conditions.

Incompatibility - Materials/Conditions to Avoid: Not applicable.

Hazardous Polymerization: Hazardous polymerization will not occur.

Hazardous Decomposition Products:  $\text{NH}_4\text{Br}$ ,  $\text{CO}(\text{NH}_2)_2$

## **Section 6 - Environmental Information**

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### Spill Response:

Refer to other sections of this MSDS for information regarding physical and health hazards, respiratory protection, ventilation, and physical and personal protective equipment. Cover spilled liquid with absorbent material. Collect spilled material. Place in a U.S. DOT-approved container.

### Waste Management and Disposal:

Contact a licensed disposal contractor or the product supplier for detailed recommendations. Follow applicable Federal, State, and local regulations.

## **Section 7 - Suggested First Aid**

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### Eye Contact:

Immediately flush eyes with large amounts of water. Get immediate medical attention.

### Skin Contact:

Flush skin with large amounts of water. If irritation persists, get medical attention.

### Inhalation:

If signs/symptoms of exposure occur, remove person to fresh air. Signs/symptoms of exposure include nose and throat irritation and coughing. If signs/symptoms continue, call a physician.

### Ingestion:

If swallowed, wash mouth thoroughly with plenty of water and give water or milk to drink. Get medical attention immediately.

## **Section 8 - Precautionary Information**

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### Eye Protection:

Avoid eye contact with vapor, spray, or mist. Wear vented goggles, or wear safety glasses with side shields.

### Skin Protection:

Avoid prolonged or repeated skin contact. Wear rubber gloves when handling this material.

### Recommended Ventilation:

Use with functioning spray booth or equivalent local exhaust. Use outdoors or in a well ventilated area. Provide sufficient ventilation to maintain emissions below recommended exposure limits.

### Respiratory Protection:

Avoid breathing of vapors, mists or spray.

### Prevention of Accidental Ingestion:

Do not ingest.

### Recommended Storage:

Keep container closed when not in use. Keep out of the reach of children.

### Fire and Explosion Avoidance:

Keep container tightly closed.

## **Section 9 - Health Hazard Data\*\***

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### Eye Contact:

May cause mild irritation.

### Skin Contact:

May be irritating from prolonged skin contact. No effects if promptly rinsed off.

### Inhalation:

May cause irritation to mucous membranes and upper respiratory tract. Prolonged exposure may cause coughing.

### Ingestion:

May cause diarrhea, nausea, vomiting. May cause drowsiness, muscular incoordination and respiratory depression.

### Chronic Toxicity:

Repeated skin contact may cause dermatitis. Repeated oral intake of bromides (.9 mg/kg body weight/day) may affect central nervous system. Warning symptoms include mental dullness, slurred speech, weakened memory, apathy, anorexia, constipation, drowsiness and loss of sensitivity to touch and pain.

Carcinogenicity: Not known to be carcinogenic by the National Toxicity Program.

\*\* While the above effects are associated with one or more of the individual ingredients in this product and are required to be included on the MSDS by the U.S. OSHA Hazardous Communication Standard, they are not expected effects during foreseeable use of this product.

## **Section 10 - Other Regulatory Information**

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SARA 313 (40 CFR 372.65 C) Supplier Notification:

CAS No.	Chemical/Compound	% by weight	% by Element
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\*\*No constituents of this product are on the Toxic Release Inventory list.

The information on this Material Safety Data Sheet (MSDS) represent our current data and best opinion as to the proper use and handling of this material under normal conditions. Any use of the material which is not in conformance with this MSDS or which involves using the material in combination with any other material or any other process is the responsibility of the user.

Fabric Flameproofing Company makes no warranties, expressed or implied, including, but not limited to, any implied warranty of merchantability or fitness for a particular purpose or course of performance or usage of trade.