



CONSTRUCTION



MOBILE HOME INTERIORS



UNIFORMS



CARPETING



FURNISHINGS



HOLIDAY DECORATIONS



STORAGE BOXES

# Fire BLOCK

## Fire Retardant

- Non-Toxic
- Non-Corrosive
- Biodegradable
- Environmentally Friendly
- Does Not Stain
- Safe to Store
- Easy to Use

**Fire Block** is a specially formulated environmentally friendly product, which is used to retard fire in all Class A materials.

**Fire Block** is a revolutionary product, which works to form its own thermal insulation barrier to prevent dangerous flames from spreading. **Fire Block** also inhibits the development of toxic hydrocarbon smoke.

**Applications:** Use to treat Class A materials or surfaces such as wood, pre-construction, furnishings, carpeting, uniforms, packaging materials, motor home interiors, holiday decorations and storage boxes for added safety against fire. It can also be mixed with latex paint.

**Directions:** **Fire Block** is easy to use. Just spray **Fire Block** on the item or surface being treated. In bulk applications you may also dip the item to be treated and allow it to drip dry. In all applications allow **Fire Block** to completely penetrate the item or surface. Allow material to dry completely. If you are using **Fire Block** to fire retard clothing, fabrics, etc. and plan to wash these items, it is recommended that **Fire Block** be reapplied after the third washing, as some of the products effectiveness will be diminished due to washing. When mixing **Fire Block** with latex paint, for best results mix an equal amount of **Fire Block** with an equal amount of paint.



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*For Safety at  
Home and  
on the job!*





# Fire BLOCK Fire Retardant



## Technical Information:

Fire Block fire retardant was tested in accordance with NFPA 255 and ASTM-E84 Test for Flame Spread and Smoke Development Values by SGS US Testing for Class A (wood, paper, furnishings etc.) materials.

## Test Results are as follows:

Test Specimen:	Fire Block Fire Retardant	Rating Classification
Flame Spread Index:	15	0-25
Smoke Developed Value:	25	0-450

Since Fire Block falls into accordance with the rating classification shown above, it is considered an acceptable fire retardant product in accordance with NFPA 255.

## Fire Block has performed complete DOT corrosion testing and the results are as follows:

	Corrosion Rate	
	Mm/yr.	in./yr.
<b>Aluminum:</b>	<0.01; 0.01	<0.001; <0.001
<b>Steel:</b>	<0.06; 0.07	0.002; 0.003

## Comments:

Per 49 CFR 173.137 (c) (2) a liquid is considered to have a severe corrosion rate if its corrosion rate exceeds 6.25 mm (0.246 inches) a year on steel (SAE 1020) or aluminum (non-clad 7075 T-6) at a test temperature of 55 C (131 F).

## Availability:

Fire Block is available in a convenient 32 ounce pump spray (12 bottles/case) or can be purchased in 5 and 55 gallon drum quantities for bulk applications. No mixing is required.

Fire Block is considered to be non-toxic. Toxicity information and MSDS are available on request.

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Made in the USA

# FIRE BLOCK FIRE RETARDANT

The FIRE BLOCK Fire Retardant is a fire retarding agent specially formulated to effectively and safely retard all Class A materials. Developed from the extraordinary life saving and fire fighting Cold Fire, rapid cooling fire extinguishing agent, the FIRE BLOCK Fire Retardant is a unique and revolutionary product, which retards fires by stopping dangerous flames from spreading. The FIRE BLOCK Fire Retardant works to actually form its own insulation barrier to prevent dangerous flames from spreading. The FIRE BLOCK Fire Retardant also inhibits the development of hydrocarbon smoke. The FIRE BLOCK Fire Retardant is non-flammable, safe to store, handle and use, leaves no residue; and is environmentally safe.

## Capabilities

**Retarding Power:** • After treatment of retardant on all Class A type surfaces there is zero flame spread.  
**Applications:** • Spray on Class A surfaces of all types (wood, paper, cotton, furnishing, all non-polymer surfaces).  
**Cleanup:** • None needed. Leaves no residue.

## Characteristics

**pH:** pH of concentrate is 7.0 • **Flash Point:** Negligible. • **Boiling Point:** 212°F. • **Water Solubility:** Complete.  
**Odor:** Mild smell. Does not contain d-limonenes. Light straw color. • **Dilution Strength:** Do not dilute. Use in concentrated form.  
**Shelf Life:** Indefinite when stored in closed containers between 32°F and 120°F. • **Residue:** Product leaves little to no residue.

## Environmental and Safety Considerations

**Biodegradability:** 100% in 21 days under ideal conditions. • **Hazardous** No components are listed in the NIOSH Recommendations for Occupational • **Components:** Health Standards, 1988, or are defined as hazardous by SARA, CERCLA, or RCRA. No OSHA PEL's are established for other ingredients. • **Handling:** Retardant is neutral. It will remove oil from the skin and will irritate the eyes if sprayed directly into them. When handling bulk concentrate, eye protection, gloves, and impervious clothing should be worn when there is danger of splashing, prolonged exposure to vapor, or prolonged skin contact, as with all chemicals. Do not ingest, splash into eyes, or inhale for prolonged periods. • **Disposal:** Retardant itself may be disposed through municipal systems.

## SECTION I - IDENTIFICATION

**Manufacturer:** FIREFREEZE Worldwide, Incorporated • **Address:** 272 Route 46, Rockaway, N.J. 07866  
**Phone:** (973) 627-0722 **Fax:** (973) 627-2982 • **Date Prepared:** September 1, 2003 **Formulation #:** JG302R  
**Trade Name:** FIRE BLOCK • **Product:** Class A Fire Retardant

## SECTION II - INGREDIENTS AND HAZARD CLASSIFICATION

No components are believed to be hazardous, or listed in the NIOSH Recommendations for Occupational Safety and Health Standards, 1988, or are listed as hazardous by SARA, CERCLA, or RCRA. No OSHA PEL's are established for any of the other ingredients.

## SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

**Boiling Point:** 212°F. **Vapor Pressure (mm Hg):** Same as water. • **Solubility in water:** 100% **Specific Gravity:** 1.09 @ 60°F.  
**pH:** 7.0 **Appearance and Odor:** Straw colored liquid, mild smell. (Note: contains no d-limonene's.)

## SECTION IV - FIRE AND EXPLOSION DATA

**Flash Point:** Not applicable **Flammable Limits:** Non-flammable. • **LEL:** Not applicable. **UEL:** Not applicable. • **Extinguishing Media:** N/A.  
**Special Fire Fighting Procedures:** None. **Unusual Fire and Explosion Hazards:** None.

## SECTION V - REACTIVITY DATA

**Stability:** Stable. **Incompatibility:** None. • **Hazardous Decomposition Products:** Carbon monoxide and carbon dioxide.  
**Hazardous Polymerization:** Will not occur.

## SECTION VI - HEALTH HAZARD DATA

### Exposure Limits

OSHA PEL: Not established. ACGIH TLV: Not established.

### Routes of Entry

**Inhalation:** Yes **Skin:** Yes **Ingestion:** Yes

### Signs and Symptoms of Exposure

**Skin:** Negligible hazard. Not a primary skin irritant.

**Eyes:** Not a primary ocular irritant.

**Inhalation:** Negligible

**Ingestion:** Hazard is extremely low. Material is considered non-toxic.

### First Aid

**Eyes:** Immediately flush eyes with water for at least 15 minutes, as per OSHA standards. Seek medical aid if irritation persists.

**Skin:** Flush affected area and wash with water.

**Inhalation:** Negligible.

**Ingestion:** Drink water. Obtain medical attention if necessary.

### Carcinogenicity

NTP? No IARC? No OSHA Regulated? No

## SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE

### Spill or Leak Procedures

Rinse affected area with water. Will not harm the environment.

### Waste Disposal Method

Dispose as non-hazardous waste in accordance with local regulations

### Other Precautions:

Although components have low hazard levels, the product will remove oils from the skin like the common soap. Avoid prolonged skin contact

### Storage and Handling Precautions

Store in temperatures from 32°F to 120°F in closed containers to prevent evaporation and deterioration. Freezing will not damage material as long as container remains intact.

## SECTION VIII - CONTROL MEASURES

**Respiratory Protection:** Not required.

**Ventilation:** No special ventilation is required.

**Protective Gloves:** Wear if there is prolonged skin contact with product.

### Eye Protection:

Wear if needed to prevent reasonable probability of eye contact.

### Work/Hygienic Practices:

Do not ingest, splash into eyes, and do not inhale for prolonged periods.

## SECTION IX - HAZARD CLASSIFICATION

**IMO Hazard Class and Number:** Non-hazardous. **UN Number:** Not applicable.

**US DOT Hazard Class:** Not regulated by DOT **US DOT Identification Number:** Not applicable.

## SECTION X - ENVIRONMENTAL DATA

**Biodegradability:** Product is 100% biodegradable in an active environment within 21 days.

**Toxicity:** In accordance with U.S. EPA Office of Pollution Prevention and Toxins criteria for ranking the acute toxicity of chemicals, ColdFire, Fire Retardant is considered to be of low concern.

The information presented in this MSDS is believed to be factual. However, nothing contained in this information is to be taken as a warranty of any kind by FIREFREEZE Worldwide, Inc. The user should review any recommendations, in the specific context of the intended use, to determine whether they are appropriate.