

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.
Odor:	Mild smell. Does not contain d-limonenes. Light straw color.
Water Solubility:	Complete.
Shelf Life:	Indefinite when stored in closed containers between 32°F and 120°F.
Dilution Strength:	Do not dilute. Use in concentrated form.
Residue:	Product leaves little to no residue.

Environmental and Safety Considerations	
Biodegradability:	100% in 21 days under ideal conditions.
Hazardous Components:	No components are listed in the NIOSH Recommendations for Occupational Health Standards, 1988, or are defined as hazardous by SARA, CERLA, 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.

MATERIAL SAFETY DATA SHEET**FIRE BLOCK FIRE RETARDANT****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: January 4, 2011 **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-limonenes.)

SECTION IV - FIRE AND EXPLOSION DATA

Flash Point: Not applicable **Flammable Limits:** Non-flammable.
LEL: Not applicable. **UEL:** Not applicable.
Extinguishing Media: Not applicable.
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.

01/04/2011

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.

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.

Other Precautions

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

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.