

MASTER FLAME

SAFETY DATA SHEET

SECTION 1: IDENTIFICATION

Master Flame Fire Retardant is a fire retarding agent specially formulated to effectively and safely protect most absorbent materials like fabric, foam, and wood. **Master Flame** Fire Retardant is a unique and revolutionary product, which retards fires by stopping dangerous flames from spreading. **Master Flame** Fire Retardant also inhibits the development of hydrocarbon smoke. **Master Flame** Fire Retardant is non-flammable, safe to store, handle and use, leaves no residue, and is environmentally safe. It has been rated Class "A" for ASTM E84 Standard for Construction Materials (Flame Spread 15, Smoke Development 25), and has passed NFPA 701 Standard for Films and Fabrics. Master Flame is also certified to California Title 19.

Product: Class A Fire Retardant

Retarding Power: After Treatment of retardant on most absorbent surfaces, there is zero flame spread.

Applications: Spray on absorbent surfaces of all types (wood, paper, cotton, furnishing, all non-polymer/non-foam surfaces)

Flame Rating Classification: 0-25

Manufacturer: Master Flame

1350 W. Washington St. West Chicago, IL 60185

SECTION 2: HAZARD IDENTIFICATION

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.

IMO Hazard Class and Number: Non Hazardous

UN Number: Not applicable

US DOT Hazard Class: Not regulated by DOT

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

None of the components of this product are hazardous

SECTION 4: FIRST AID MEASURES

Eyes: Immediately flush eyes with water for 15 minutes. Seek medical aid if irritate persists.

Skin: Flush affected area and rinse with water.

Inhalation: Negligible. Remove to fresh air.

Ingestion: Drink Water. Obtain medical attention if necessary.

SECTION 5: FIRE-FIGHTING MEASURES

Flash Point: Not applicable.

Flammable Limits: Non- Flammable.

LEL: Not Applicable.

UEL: Not Applicable.

Extinguishing Media: Not applicable.

Special Fire Fighting Procedures: None.

SECTION 6: ACCIDENTAL RELEASE MEASURES

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.

SECTION 7: HANDLING AND STORAGE

Storage and Handling Precautions: For best results, store product in temperature controlled environments.

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 a danger of splashing, prolonged exposure to vapor, or prolonged skin contact, as with all chemicals. Do not ingest, splash into eyes, or inhale for long periods.

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

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Respiratory Protection: Not required.

Ventilation: No special ventilation is required.

Protective Gloves: Wear if there is prolonged skin contact.

Eye Protection: Wear if needed to prevent reasonable probability of eye contact.

Work/ Hygienic Practices: Do not ingest, do not splash into eyes, do not inhale for prolonged periods.

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 low. Material considered non-toxic.

SECTION 9: CHEMICAL AND PHYSICAL PROPERTIES

Boiling Point: 212° F.

pH: 7.0

Water Solubility: 100%

Shelf Life: 2 years when stored in closed containers between 32° F and 120°

F.

Appearance and Odor: Mild Fresh Scent. Does not contain d-limonenes.

Clear Color.

Flash Point: Negligible

Vapor Pressure (mm Hg): Same as water.

Specific Gravity: 1.09 @ 60° F.

Dilution Strength: Do not dilute.

Residue: Product leaves little to no residue.

Flammability: Non- Flammable

SECTION 10: STABILITY AND REACTIVITY

Stability: Stable **Incompatibility:** None. **Hazardous Decomposition Products:** Carbon monoxide and carbon dioxide.

Hazardous Polymerization: Will not occur.

SECTION 11: TOXICOLOGICAL INFORMATION

Toxicity: in accordance with U.S. EPA Office of Pollution Prevention and Toxins, criteria for ranking the acute toxicity of chemicals, Master Flame is considered to be of low concern.

Carcinogenity

NTP? No.

IARC? No.

OSHA Regulated? No.

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 low. Material considered non-toxic.

SECTION 12: ECOLOGICAL INFORMATION

Biodegradability: 100% in 21 days under ideal conditions.

Disposal: Retardant itself may be disposed through municipal systems

SECTION 13: WARRANTY

Neither seller nor manufacturer shall be liable for any injury, loss or damage, direct or consequential, arising out of the use or the inability to use the product. Before using, user shall determine the suitability of the product for their intended use, and user assumes all risk and liability whatsoever in connection therewith. If product is tamper evident, do not use and contact an authorized Master Flame dealer immediately.

SECTION 14: TRANSPORTATION INFORMATION

U.S Department of Transportation: Not Regulated

International Transportation: Non Regulated

Canadian Transportation of Dangerous Goods: Non Regulated

SECTION 15: TRANSPORTATION

US Federal Regulations: This product is not known to contain "Hazardous Chemicals" as defined by the OSHA Hazard Communication Standard 29 CFR 1910.1200.

Safe Drinking Water Act: N/A Drug Enforcement Agency: N/A Food and Drug Administration: N/A

WHMIS: Not Controlled

Section 302 Extremely Hazardous Substance: NO

Section 311 Hazardous Chemical: NO

SARA Hazard Categories: Immediate Hazard- NO Delayed Hazard: NO Fire Hazard: NO Pressure Hazard: NO

Reactivity Hazard: NO

This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

U.S Minnesota - Hazardous Substance List

U.S Massachusetts - Right to Know List

U.S Pennsylvania - Right to Know List

U.S Rhode Island - Hazardous Substance List

U.S Texas - Effects Screening Levels - Short/Long Term

United States & Puerto Rico Non-Domestic Substance List: No

Toxic Substances Control Act inventory: Yes

Canada Domestic Substance List: Yes

SECTION 16: OTHER INFORMATION

N/A

The information presented in this MSDS is believed to be factual. The user should review any recommendations, the specific conditions, in the specific context of the intended use, to determine whether they are appropriate.

If you have any questions, please contact Master Flame - (800) 678-9816
masterflameretardant.com