

MATERIAL SAFETY DATA SHEET



BanFire is a water-based fire retardant designed to reduce fire propagation in fabrics. It has passed the NFPA 701 Test 1 standard, with testing done by TexTest Testing Services. As such, it meets most Life Code 101 requirements for hanging fabrics in public spaces. One quart of BanFire will treat 100 square feet with two applications.

IDENTIFICATION

Product Name: BanFire
Manufacturer: RDR Technologies
Address: 1141 SE Grand Blvd., Suite 118
Oklahoma City, OK 73129
Phone: 405-702-0055

CAS#: Not issued
Chemical Family: Amino Salt in Water Solution
TSCA Inventory: All components of flame retardant composition appear on the Inventory of Chemical Substance published by the EPA.
DOT Hazard Class: Not Applicable
DOT Label Requirements: Not Applicable

Physical Hazard Rating:

National Fire Protection Association
Health 0
Flammability 0
Reactivity 0

HAZARDOUS INGREDIENTS / IDENTITY INFORMATION

If handled in accordance with good industrial hygiene and safety practices, is not a health hazard nor does it present unusual physical or health hazards.

OSHA and AGGIH have not established specific exposure limits for this material. It should be treated as a nuisance when dried to form a powder with exposure Emits as follows:

OSHA PEL: 8-hours
TWA: Total 15 mg/m³; Respirable 5 mg/m³
AGGIH TLV: 8-hours
TWA: Total 10 mg/m³-, Respirable 5 mg/m³

PHYSICAL/CHEMICAL CHARACTERISTICS

Appearance: Clear aqueous solution, odorless.
Boiling Point: Not Applicable.
Vapor Pressure: Not Applicable.
Vapor Density: Not Applicable.
Solubility in Water: Soluble in water
Melting Point: Decomposes at a temperature range beginning at 160°C.

FIRE & EXPLOSION HAZARD DATA

Flash Point: Not Applicable.
Flammable Limits: Not Applicable.
Fire Extinguishing Media: Use that which is appropriate for surrounding fire.
Special Fire Fighting Procedures: Firefighters should use full protective clothing and a self-contained breathing apparatus.
Unusual Fire/Explosion Hazards: Thermal decomposition can yield ammonia, cyanic acid, carbon dioxide, carbon monoxide, oxides of nitrogen and phosphorus oxide. Fumes can be toxic in a confined space.

REACTIVITY DATA

Stability: Stable
Conditions to Avoid: Not Applicable.
Incompatibility with other Materials: Avoid contact with strong oxidizing agents.
Hazardous decomposition Products: Thermal decomposition in the presence of air may yield ammonia, carbon monoxide, carbon dioxide, cyanic acid, phosphorus oxides and oxides of nitrogen.
Hazardous Polymerization: Will not occur.

HEALTH HAZARD DATA

Eye Effects: Contact with the aqueous solution may be irritating to the eyes and may cause burning, tearing, and redness.
Skin Effects: Prolonged or repeated contact may cause skin irritation. Avoid skin exposure to water solutions or slurries.
Inhalation: Not Applicable
Ingestion: Ingestion of excessive quantities may cause irritations of the digestive tract, give a large glass of milk. Do not induce vomiting. Call a physician immediately.
Medical Condition Aggravated by Exposure: Skin conditions may be aggravated by aqueous solutions.
Chronic Hazard: No known chronic hazards. Not listed by OSHA, NTP or IARC as a carcinogen.
Medical Conditions Generally Aggravated by Exposure: None known. Possibly skin diseases

FIRST AID PROCEDURES

Eyes: For direct contact, flush the affected eye(s) with clean water. If irritation or redness develops, seek medical attention.
Skin: Remove contaminated clothing. Wash affected area with mild soap and water. If irritation or redness develops and/or persists, seek medical attention. Inhalation: If irritation to nose, throat, and/or lungs occurs, move victim away from exposure, and into fresh air. If irritation persists, seek medical attention.

PRECAUTIONS FOR SAFE HANDLING AND USE

Spills: Isolate spill and restrict entry. Sweep up and package appropriately for disposal. Contact state, local and federal authorities as required.
Waste Disposal Method: Dispose of product in accordance with local, county, state and federal regulations.
Storage and Handling: Store tightly closed containers in a cool, dry, well ventilated area. Use good personal hygiene practices. Avoid product contact.

PERSONAL PROTECTION MEASURES

Respiratory: Use NIOSH approved filter-type respirator as needed.
Gloves: The use of gloves impermeable to the material is advised to prevent possible skin irritation.
Eyes: Approved eye protection to safeguard against potential eye contact, irritation or injury is recommended.

DISCLAIMER

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