

MSDS (Material Safety Data Sheet)

EMERGENCY TELEPHONE NO.: 800-424-9300

PRODUCT NAME: **F-2000, FABRIC SHIELD FLAME RETARDANT**

CHEMICAL FAMILY: Aqueous-based fire retardant.

SECTION I - PRODUCT INFORMATION

MANUFACTURER'S NAME:

UNIVERSAL FIRE SHIELD

3544 Waterfield Pkwy - Lakeland, Florida 33803 USA

TELEPHONE # FOR INFORMATION: **800-608-5699**

TRADE SECRET FORMULA

SECTION II - HAZARDOUS COMPONENTS

COMPONENT		ACGIH	OSHA
<u>CAS REGISTRY NO.</u>	<u>WT. %</u>	<u>TLV</u>	<u>PRL</u>
Neobor	2%	3,500 -	4,100 mg/kg
Sodium Bromide	2.5% - 5%	3,500 -	
Boric Acid 10043-35-3	1% - 3%	3,500 -	4,100 mg/kg

SECTION III - PHYSICAL PROPERTIES

APPEARANCE AND ODOR: Odorless, colorless liquid.

MOLECULAR WEIGHT: Not Applicable.

BOILING POINT: (DEGREES FAHRENHEIT): 212 - N/A

MELTING POINT: (DEGREES FAHRENHEIT): Not Applicable.

VAPOR PRESSURE: (mm of Mercury): Not Determined.

SPECIFIC GRAVITY (WATER=1): 1.19 - 1.12

VAPOR DENSITY (AIR=1): Aqueous mixture not determined.

PERCENT VOLATILE: (BY WEIGHT): 64% - 85% max. (water content only)

pH: 5.5 - 6.7

SOLUBILITY IN WATER: Complete.

EVAPORATION RATE: (BUTYL ACETATE=1): Not Determined < 1 (slower).

SECTION IV - FIRE AND EXPLOSION DATA

FLASH POINT (DEGREES FAHRENHEIT: PENSKEY-MARTENS CLOSED CUP): None to boiling.

FIRE EXTINGUISHING MEDIA: Not combustible. Use water spray, fog, foam, dry chemicals, CO₂, or

other agents as appropriate for material in surrounding fire.

FLAMMABLE LIMITS (PERCENT BY VOLUME): Not applicable.

SPECIAL FIRE FIGHTING PROCEDURES AND EQUIPMENT: Not combustible.

UNUSUAL FIRE AND EXPLOSION HAZARDS: None.

HAZARDOUS DECOMPOSITION PRODUCTS: Exposure to high heat and/or combustion may cause liberation of traces of ammonia.

SECTION V - REACTIVITY DATA

STABILITY: STABLE UNSTABLE

CONDITIONS TO AVOID: Mixing & strong bases; Mixing with incompatible materials.

INCOMPATIBILITY (MATERIALS TO AVOID): Strong bases may release ammonia gas.

HAZARDOUS DECOMPOSITION PRODUCTS: In the dried state, nitrogen oxides, ammonia or hydrogen bromide may be formed in the presence of fire.

HAZARDOUS POLYMERIZATION: Will Occur Will Not Occur

SECTION VI - HEALTH HAZARD INFORMATION

EXPOSURE FROM ROUTINE USE: No evidence of adverse effects from available information.

EFFECTS OF OVEREXPOSURE: Direct contact with eyes may cause irritation.

PROBABLE ROUTES OF EXPOSURE: Eyes, inhalation, and ingestion.

EMERGENCY AND FIRST AID PROCEDURES:

EYE CONTACT: Immediately flush eyes with water for at least 15 min. including underneath eyelids.

Consult a physician if irritation persists.

SKIN CONTACT: Non-irritant; wash from skin.

INHALATION: Not established. Not expected to be harmful.

CARCINOGENICITY: Not applicable.

OTHER PERTINENT DATA: Not applicable.

SECTION VII - TOXICITY DATA

ORAL: Acute Oral Toxicity: Ld50 (rat) > 5000 mg/kg

DERMAL: Not established, not expected to be harmful. May be irritating with continual contact.

INHALATION: Not established. Not expected to be harmful. If necessary, use respirator if adequate ventilation is not possible to keep exposure to particulate matter at a minimum.

OTHER PERTINENT DATA: Not applicable.

SECTION VIII - SPECIAL PROTECTION INFORMATION

PERSONAL PROTECTION EQUIPMENT

PROTECTIVE GLOVES: Ordinary protective work gloves.

EYE PROTECTION: Safety goggles.

RESPIRATORY PROTECTION (SPECIFY TYPE): Use NIOSH approved equipment suitable for nuisance vapors when airborne exposure is necessary.

OTHER PROTECTIVE EQUIPMENT: Wear easily washable clothing.

SECTION IX - SPILL, LEAK, AND DISPOSAL PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Confine spilled material and absorb on sand, sawdust, earth or other available solids. Sweep and place in a suitable container. Flush with water and rinse minor spills into sewer if permitted by Federal, State and local regulations.

WASTE DISPOSAL METHODS: Incinerate or bury in a suitable land fill where permitted by appropriate government regulations.

CLEAN WATER ACT REQUIREMENTS: Not applicable.

RESOURCE CONSERVATION AND RECOVERY ACT (RCRA) REQUIREMENTS: No applicable information found.

SECTION X - REGULATORY INFORMATION

FDA: No applicable information found.

USDA: No applicable information found.

CPSC: No applicable information found.

TSCA: No applicable information found.

DOT: No applicable information found.

EPA: No applicable information found.

PROPER SHIPPING NAME: Not applicable.

HAZARDOUS CLASS: Not applicable.

LABEL REQUIRED: Not applicable.

IDENTIFICATION NUMBER: Not applicable.

OTHER PERTINENT INFORMATION: Not applicable.

SECTION XI - SPECIAL PRECAUTIONS AND COMMENTS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Keep away from eyes. Avoid prolonged contact with skin. Wash exposed skin with soap and water. Avoid breathing of mist.

OTHER PRECAUTIONS: Not applicable.

REGISTRATION/CERTIFICATIONS: Not applicable.

EFFECTIVE DATE: February 19, 2010

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