



## SAFETY DATA SHEET

### 1. IDENTIFICATION

**Product Identifier:** FyreWrap® LiB FXAA Hybrid

**Recommended Use:** Fire suppression system

**Manufacturer/Supplier:** Unifrax I LLC  
600 Riverwalk Parkway, Suite 120  
Tonawanda, NY 14150

**Product Stewardship Information Hotline**  
1-800-322-2293 (Monday - Friday 8:00 a.m. - 4:30 p.m. EST)

For additional SDSs, visit our web page, <http://www.unifrax.com>, or call Unifrax Customer Service at (716) 768-6500

**Emergency Phone Number:** CHEMTREC will provide assistance for chemical emergencies. Call 1-800-424-9300

### 2. HAZARDS IDENTIFICATION

#### CLASSIFICATION

Not applicable per US OSHA Hazard Communication Standard (29 CFR 1910.1200), EU Classification, Labeling and Packaging (CLP) and the Globally Harmonized System of Classification and Labeling (GHS).

Under normal use, when the integrity of the encapsulation remains intact, this product presents no identifiable chemical hazard. If the encapsulation is compromised, and sufficient mechanical energy is applied to the inner material (including cutting, ripping or tearing) potential health effects may result:

Skin Contact: May cause mechanical irritation

Eye Contact: May cause eye irritation.

Inhalation: Inhalation of dust may cause respiratory tract (nose, throat, lungs) irritation.

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Burnthrough paper is an "article" pursuant to the OSHA Hazard Communication Standard (29 CFR 1910.1200 (c)), a "manufactured article" as defined by the Canadian Workplace Hazardous Materials Information System (WHMIS), and an "article" according to the EU REACH regulation.

Incorporates a patented, high temperature amorphous alkaline-earth-silicate (AES -- magnesium-silicate) wool (SiO<sub>2</sub> 70-80 %, MgO 18-27 %, trace elements 0-4%) which meets all current EU regulatory requirements as defined in Directive 97/69/EC. CAS 436083-99-7

## 4. FIRST AID MEASURES

Under normal conditions of handling and use, the inner material would not release more than minute or trace amounts of chemicals. If the material is sufficiently disturbed, exposure may result.

### **SKIN IRRITATION:**

Wash area of contact thoroughly with soap and water. Do not rub or scratch exposed skin. Using a skin cream or lotion after washing may be helpful.

### **EYE IRRITATION:**

If eyes become irritated, flush immediately with large amounts of lukewarm water for at least 15 minutes. Eyelids should be held away from the eyeball to ensure thorough rinsing. Do not rub eyes. Get medical attention if irritation persists.

### **RESPIRATORY TRACT (nose & throat) IRRITATION:**

If respiratory tract irritation develops, move the person to a dust free location. Get medical attention if the irritation continues.

## 5. FIRE FIGHTING MEASURES

This product is non-combustible (does not burn).

## 6. ACCIDENTAL RELEASE MEASURES

Avoid creating airborne dust. Dust suppressing cleaning methods such as wet sweeping or vacuuming should be used to clean the work area. If vacuuming, the vacuum must be equipped with a HEPA filter. Compressed air or dry sweeping should not be used for cleaning.

## 7. HANDLING AND STORAGE

Handling of this product is expected to result in little or no exposure. Store in a dry area.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### **Skin Protection:**

Wear gloves, head coverings and full body clothing as necessary to prevent skin irritation. Barrier cream may be useful to prevent dryness of skin.

### **Eye Protection:**

In case of dust formation, wear safety glasses with side shields or other forms of eye protection in compliance with appropriate OSHA standards to prevent eye irritation. Do not touch eyes with soiled body parts or materials. If possible, have eye-washing facilities readily available where eye irritation can occur.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

4 psf Thickness (mm)	0.7 +/- 0.2 (Typical)
Basis Weight (gm2)	65 +/- 5
Tensile - green (g/inch width)	500 min.
Tensile - Char-line (g/inch width)	65 min.

## 10. STABILITY AND REACTIVITY

<b>CHEMICAL STABILITY:</b>	Stable under conditions of normal use.
<b>INCOMPATIBILITY:</b>	None.
<b>CONDITIONS TO AVOID:</b>	None.
<b>HAZARDOUS DECOMPOSITION PRODUCTS:</b>	Carbon monoxide, Nitrogen oxides (NOx)
<b>HAZARDOUS POLYMERIZATION:</b>	Not Applicable.

## 11. TOXICOLOGICAL INFORMATION

A review of available scientific literature suggests an inverse relationship between dissolution rate and potential health effects; i.e. the higher the dissolution rate of a fiber the lower its potential to produce health effects. The dissolution rate of the AES fiber has been determined through standardized *in vitro* testing. The dissolution rate of AES fibers is higher than that of other fiber types that have been tested in chronic animal studies and did not produce respiratory disease.

This product possesses a fiber chemistry within the regulatory (European Commission Directive 97/69/EC) definition as a "man-made vitreous (silicate) fiber with random orientation with alkaline oxide and alkaline earth oxide (Na<sub>2</sub>O + K<sub>2</sub>O + CaO + MgO + BaO) content greater than 18% by weight". AES fibers have been tested pursuant to EU protocol ECB/TM/26, rev. 7, Nota Q, Directive 97/69/EC. The results for the short term biopersistence test by inhalation (IH test) was 6 days; well below the regulatory threshold of 10 days cited in Directive 97/69/EC. Based on testing results, AES based products are not regarded as potential carcinogens and they ARE EXEMPT from European classification as such. By virtue of these test results, these products ARE EXEMPT from European regulatory guidelines that require hazard warning labels with specific risk phrases citing respiratory disease potential. In addition, AES fibers have been tested in an independent laboratory, by intratracheal (IT test) instillation, under a protocol that was consistent with the requirements of the German Hazardous Substances Ordinance (BGBl. I pp. 1782, 2049, Third Amendment, Appendix V, No. 7). The half-life clearance of AES fibers was 32.7 days; well below the applicable regulatory thresholds. Based on the IT test results, AES products ARE EXEMPT from the requirements of the German Ordinance.

The definition of "irritant" contained in the hazard communication standard, 29 CFR 1900.1200, Appendix A, is "...a reversible inflammatory effect on living tissue by chemical action...". AES fiber is an inert material which doesn't interact chemically with exposed skin. However, there is a possibility that exposure to this product may cause temporary mechanical irritation to the eyes, skin or respiratory tract (nose, throat, lungs). This temporary irritation can be mitigated with proper handling practices designed to limit exposure and the use of protective clothing (glasses, gloves, clothing).

None of the ingredients in this product are listed in the National Toxicology Program (NTP) Report on Carcinogens (latest edition) or have been found to be potential carcinogens in the International Agency for Research on Cancer (IARC) Monographs (latest edition), or by OSHA.

## 12. ECOLOGICAL INFORMATION

No ecological concerns have been identified.

### 13. DISPOSAL CONSIDERATIONS

This product is not classified as a hazardous waste according to Federal regulations (40 CFR 261). Check local, regional, state or provincial regulations for applicable requirements for disposal. Any processing, use, alteration or chemical additions to the product, as purchased, may alter the disposal requirements. Under Federal regulations, it is the waste generator's responsibility to properly characterize a waste material, to determine if it is a "hazardous" waste.

### 14. TRANSPORT INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION (DOT)  
BILL OF LADING DESCRIPTION (49 CFR 172.202): (NON-REGULATED)  
UNITED NATIONS (UN) NUMBER: NOT APPLICABLE  
NORTH AMERICA (NA) NUMBER: NOT APPLICABLE

### 15. REGULATORY INFORMATION

**Toxic Substances Control Act (TSCA)** - This material meets the definition of an article and as such is not subject to TSCA.

**Workplace Hazardous Materials Information System (WHMIS)** - This material meets the definition of a manufactured article and as such is not subject to WHMIS.

**European Chemicals Agency (ECHA)** - This material meets the definition of an article in the REACH regulation.

### 16. OTHER INFORMATION

#### **Product Stewardship Program**

Unifrax I LLC has established a program to provide customers with up-to-date information regarding the proper use and handling of this product. If you would like more information, please call the Unifrax I LLC Product Stewardship Information Hotline at 1-800-322-2293.

**Revision Summary:** Not Applicable.

SDS Prepared By: UNIFRAX RISK MANAGEMENT DEPARTMENT

Date of SDS preparation or last change: 05/09/2017

#### **DISCLAIMER**

The information presented herein is based on data considered to be accurate as of the date of preparation of this Safety Data Sheet. However, no warranty or representation, express or implied, is made as to the accuracy or completeness of the foregoing data and safety information. In addition, no responsibility can be assumed by vendor for any damage or injury resulting from abnormal use, from any failure to adhere to recommended practices, or from any hazards inherent in the nature of the product.