



# MATERIAL SAFETY DATA SHEET

**PRODUCT NAME:** TYFO<sup>®</sup> SEH-51A      **FABRIC**      **PAGE:** 1 of 4  
**MSDS NUMBER:** SEH-51A-002      **DATE:** April 19, 2013      **SUPERSEDES:** April 2, 2010

## SECTION I: MATERIAL AND MANUFACTURER IDENTIFICATION

**MANUFACTURER:**  
FYFE CO. LLC  
8380 Miralani Drive  
San Diego, CA 92126

**EMERGENCY TELEPHONE NUMBER:**  
800-424-9300 or 703-527-3887  
**INFORMATION TELEPHONE NUMBER:**  
858-642-0694

**PRODUCTION IDENTIFICATION:** TYFO<sup>®</sup> SEH-51A Fabric

**CHEMICAL FAMILY:** Woven Fiberglass Fabric E-Glass

## SECTION II: COMPOSITION / INGREDIENTS

MATERIAL OR COMPONENT	CAS NUMBER	% BY WEIGHT	OSHA(PEL)	ACGIH(TLV)
Fiberglass, continuous filament	65997-17-3	>98	$\frac{15 \text{ mg/m}^3 \text{ (Total)}}{5 \text{ mg/m}^3 \text{ (Respirable)}}$	$\frac{10 \text{ mg/m}^3}{3 \text{ mg/m}^3}$

## SECTION III: HAZARD IDENTIFICATION

**EMERGENCY OVERVIEW:** No unusual conditions are expected from this product.

**APPEARANCE AND ODOR:** White fibers woven into fabric of varying weight and thickness, depending on the style, with no distinctive odor.

### STATEMENTS OF HAZARD:

**CAUTION ! MAY CAUSE TEMPORARY MECHANICAL IRRITATION OF THE SKIN OR UPPER RESPIRATORY TRACT.**

### PRIMARY ROUTES OF EXPOSURE:

EYES--YES      SKIN CONTACT--YES      INHALATION--YES      INGESTION--NO

### HMIS RATING:

HEALTH--2      FLAMMABILITY--1      REACTIVITY--0      SPECIAL--NONE

### POTENTIAL HEALTH EFFECTS:

**EYES:** Causes slight irritation to the eyes.

**SKIN:** Causes moderated skin irritation and sensitization. Contact with product at elevated temperature could cause thermal burns.

**INHALATION:** Due to low volatility, inhalation unlikely. Avoid breathing vapor, mist or spray.

**INGESTION:** Material has a low order of acute oral toxicity, ingestion unlikely.

**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:** Preexisting conditions such as asthma, allergies, eczema and other lung and skin disorders may be aggravated by exposure to the product.

**OTHER:** The components present in this material at concentrations equal to or greater than 0.1 % are not listed or regulated by IARC, NTP, OSHA or ACGIH as a carcinogen, but glass filament is listed by IARC as Group 3 (not classifiable as to human carcinogenicity).

**SECTION IV: FIRST AID MEASURES**

**EYES:** In case of eye contact, immediately flush eyes with large amounts of water for at least 15 minutes, keeping the eyelids open. Get medical attention.

**SKIN CONTACT:** In case of contact, immediately wash skin with mild soap and room temperature to cool running water. Use a washcloth to help remove the fibers. To avoid further irritation, do not rub or scratch irritated areas. Rubbing or scratching may force fibers into the skin. Get medical attention if irritation persists.

**INHALATION:** If inhaled, remove to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing is difficult, qualified personnel may administer oxygen. Get medical attention.

**INGESTION:** Ingestion of this material is unlikely. If swallowed, get medical attention immediately.

**SECTION V: FIRE FIGHTING MEASURES**

**FLASH POINT/METHOD OF DETERMINATION:** Non-Burning.      **LEL:** N/A      **UEL:** N/A

**MEANS OF EXTINCTION:** Use water-spray, foam, dry chemical or CO<sub>2</sub> to extinguish fires.

**SPECIAL FIRE HAZARDS:** Avoid exposure through use of a self-contained, positive-pressure breathing apparatus.

**SECTION VI: ACCIDENTAL RELEASE MEASURES**

**PROCEDURES IN CASE OF ACCIDENTAL RELEASE OF LEAKAGE:** Avoid contact with skin, eyes or clothing (See Section VIII). Clean up material, put into a suitable container and dispose of properly (See Section XIII).

**SECTION VII: HANDLING AND STORAGE**

**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:** Store in a cool, dry place. Maintain seal against contamination from dirt and moisture.

**SECTION VIII: EXPOSURE CONTROLS/PERSONAL PROTECTION**

**EYE/FACE PROTECTION:** Avoid eye contact. Wear safety glasses.

**SKIN PROTECTION:** Protective clothing such as a loose fitting long sleeved shirt that covers the base of the neck, long pants and gloves. Skin irritation is known to occur primarily at pressure points such as around the neck, wrist, waist and between the fingers.

**RESPIRATORY PROTECTION:** Ordinarily not required. If sufficient dust or fibers is generated during use of the product, use a dust respirator approved by NIOSH, as appropriate.

**VENTILATION:** Use local exhaust sufficient to control fibers of dust generated. If exhaust ventilation is not available or is inadequate use a dust respirator approved by NIOSH, as appropriate.

**GENERAL HYGIENE RECOMMENDATIONS:** Before eating, drinking, smoking or using toilet facilities, wash face and hands thoroughly with soap and water. remove any contaminated clothing and launder before reuse. Use vacuum equipment to remove fibers and dust from clothing and work areas. Compressed air is not recommended.

**SECTION IX: PHYSICAL AND CHEMICAL PROPERTIES**

<b>APPEARANCE AND ODOR</b>	White colored fabric. No distinct odor.
<b>MELTING POINT (°F/°C)</b>	Glass will melt at 800 degrees C.
<b>SPECIFIC GRAVITY ( WATER=1)</b>	1.46
<b>pH OF UNDILUTED PRODUCT</b>	Not determined
<b>VOLATILE (PERCENT (%) BY WEIGHT)</b>	0
<b>PERCENT (%) VOC</b>	Not determined
<b>SOLUBILITY IN WATER</b>	0-2 %

**SECTION X: STABILITY AND REACTIVITY**

**STABILITY:** Stable under normal handling and storage conditions.

**INCOMPATIBLE MATERIALS:** None

**PRODUCTS EVOLVED FROM HEAT OF COMBUSTION OR DECOMPOSITION:** The finish may decompose and release carbon dioxide, silicon dioxide, nitrogen oxide, ammonia, hydrogen chloride, traces of incompletely burned carbon products and other unidentified gases and vapors which may be toxic. Avoid inhalation.

**HAZARDOUS POLYMERIZATIONS:** Will not occur under normal conditions of use. Rapid heating of the product in bulk may produce an uncontrolled exothermic reaction, which may char and de-compose the finish, generating unidentified gases and vapors, which may be toxic. Avoid inhalation.

**SECTION XI: TOXICOLOGICAL INFORMATION****MATERIAL OR COMPONENT TOXICITY DATA:****MEDIAN LETHAL DOSE (SPECIES):**

ORAL (LD <sub>50</sub> )	Not determined
INHALATION LC <sub>50</sub> )	Not determined
DERMAL (LD <sub>50</sub> )	Not determined

**IRRITATION INDEX, ESTIMATION OF IRRITATION (SPECIES):**

SKIN	Possible mechanical irritation and dermatitis
EYES	Possible mechanical irritation
INHALATION	Possible mechanical irritation

**SECTION XII: ECOLOGICAL INFORMATION**

No ecological data has been determined.

**SECTION XIII: DISPOSAL CONSIDERATIONS**

**WASTE DISPOSAL METHODS:** Comply with all federal, state, provincial and local laws and regulations. Contact an appropriate waste disposal contractor and environmental agency. Under RCRA, it is the responsibility of the user of the product to determine at the time of disposal, whether the product meets RCRA criteria for hazardous waste. This is because product uses transformations, mixtures, processes and etc. May render the resulting materials hazardous.

**SECTION XIV: TRANSPORTATION INFORMATION****DOT AND IATA:**

PROPER SHIPPING NAME	Not regulated
HAZARD CLASS	Not regulated
IDENTIFICATION NUMBER	None
LABEL REQUIRED	None

**SECTION XV: REGULATORY INFORMATION****SARA TITLE III:**

SECTION 302/304 EXTREMELY HAZARDOUS SUBSTANCE: None

SECTION 311 HAZARDOUS CATEGORIZATION: None

SECTION 313 TOXIC CHEMICALS: None

**CERCLA SECTION 102(a) HAZARDOUS SUBSTANCE:** None

**WHMIS (CANADA):**

CLASSIFICATION: None

INGREDIENT DISCLOSURE LIST: Fibrous glass (CAS # 65997-17-3)

**CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT OF 1986  
(PROPOSITION 65):**

WARNING! THE STATE OF CALIFORNIA HAS DETERMINED THAT THE FOLLOWING LISTED MATERIAL OR COMPONENT CHEMICALS IN THIS PRODUCT MAY CAUSE CANCER, BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM: None

**ALL MATERIALS OR COMPONENTS OF THIS PRODUCT ARE EITHER LISTED OR ARE NOT REQUIRED TO BE LISTED IN THE EPA TSCA INVENTORY.**

**THIS PRODUCT DOES NOT CONTAIN OR IS NOT MANUFACTURED WITH OZONE DEPLETING SUBSTANCES AS IDENTIFIED IN THE TITLE VI, CLEAN AIR ACT "STRATOSPHERIC OZONE PROTECTION" AND THE REGULATIONS SET FORTH IN 40 CFR, PART 82.**

**SECTION XVI: OTHER INFORMATION**

**SPECIAL PRECAUTIONS:** None

**EXPLANATION AND DISCLAIMER:** Wherever such words or phrases as "hazardous," "toxic," "carcinogen," appear herein, they are used as defined or described under state employee right-to-know laws, Federal OSHA laws or the direct sources for these laws such as the International Agency for Research on Cancer (IARC), the National Toxicology Program (NTP), etc. The use of such words or phrases should not be taken to mean that we deem or imply any substance or exposure to be toxic, hazardous or otherwise harmful. **ANY EXPOSURE CAN ONLY BE UNDERSTOOD WITHIN THE ENTIRE CONTEXT OF ITS OCCURRENCE, WHICH INCLUDES SUCH FACTORS AS THE SUBSTANCE'S CHARACTERISTICS AS DEFINED IN THE MSDS, AMOUNT AND DURATION OF EXPOSURE, OTHER CHEMICALS PRESENT AND PREEXISTING INDIVIDUAL DIFFERENCES IN RESPONSE TO THE EXPOSURE.**

The data provided is based on the information received from our raw material suppliers and other sources believed to be reliable. **THIS DATA DOES NOT CONSTITUTE A GUARANTEE (EXPRESSED OR IMPLIED), WARRANTY (INCLUDING WARRANTY WITHOUT LIMITATION, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE) OR REPRESENTATION (INCLUDING FREEDOM FROM PATENT LIABILITY) BY US WITH RESPECT TO THE DATA, THE PRODUCT DESCRIBED OR IT'S USE FOR ANY SPECIFIC PURPOSE, EVEN IF THAT PURPOSE IS KNOWN TO US. WE DISCLAIM LIABILITY FOR DAMAGE OR INJURY INCURRING DIRECTLY OR INDIRECTLY FROM THE USE OF THIS PRODUCT.**

**APPROVED AND AUTHORIZED BY:** *Edward R Fyfe*