

Section 1. Product and Company Identification

Product Name: Tyfo® WR-AFP
Supplier: FyfeFRP LLC | 621 Lockhaven Drive. Houston, TX 77073 | +1 281.590.8491
Emergency Phone Number: 800.424.9300 (CHEMTREC)
+1 703.741.5970 (Outside the US)
Product Description: Mixture
Product Use: For professional use only

Section 2. Hazards Identification**Classification of the substance or mixture**

Skin corrosion / irritation – Category 2
Sensitization / skin – Category 1B
Eye damage/irritation – Category 1
Specific Target Organ Toxicity (Single Exposure) – Category 3
Specific Target Organ Toxicity (Repeated Exposure) – Category 1
Carcinogenicity – Category 1A

Label Elements:**Hazard Statement(s):**

H315 Causes skin irritation
H317 May cause an allergic skin reaction
H318 Causes serious eye damage
H335 May cause respiratory irritation
H372 Causes damage to organs through prolonged or repeated exposure
H350 May cause cancer

Signal Word: Danger

Precautionary Statement(s):

P261 - Avoid breathing vapors
P264 - Wash hands thoroughly after handling
P280 - Wear eye protection, protective clothing, protective gloves
P302+P352 - If on skin: Wash with plenty of water
P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing
P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P332+P313 - If skin irritation occurs: Get medical advice/attention.
P337+P313 - If eye irritation persists: Get medical advice/attention

Section 3. Composition/ Information on Ingredients


TYFO® WR-AFP

Chemical Name	CAS-No	Weight %
Gypsum	26499-65-0	35 – 45
Portland Cement	65997-15-1	25 – 40
Vermiculite	1318-00-9	15 – 30
Aluminosilicate Refractory Ceramic Fibres	142844-00-6	5 – 8
Microcrystalline Silica	14808-60-7	0.1 – 0.8

Section 4. First Aid Measures
First Aid Measures for Accidental:

General: IF exposed or concerned: Get medical advice/attention. Call a poison center/doctor/physician if you feel unwell.

Inhalation: Remove person to fresh air and keep comfortable for breathing.

Ingestion: Rinse mouth with water. Do not induce vomiting. Consult a doctor/medical service if you feel unwell.

Eye contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.

Skin contact: Wash skin with plenty of water. Take off contaminated clothing. If skin irritation occurs: Get medical advice/attention.

Most important symptoms/effects, acute and delayed:

Symptoms/injuries after skin contact: Irritation.

Symptoms/injuries after eye contact: Mild eye irritation.

Indication of immediate medical attention and special treatment needed: Treat symptomatically.

Section 5. Fire Fighting Measures

Suitable Extinguishing Media: Water spray. Dry powder. Foam.

Advice for Fire-fighters: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

Specific Hazards Arising from the substance or mixture: The product is non-reactive under normal conditions of use, storage and transport.

Section 6. Accidental Release Measures
Personal Precautions, Protective Equipment, and Emergency Procedures:

For non-emergency personnel: Ventilate spillage area. Avoid contact with skin and eyes. Do not breathe dust/fume/gas/mist/vapors/spray.

For emergency responders: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

Environmental Precautions: Avoid release to the environment.

Methods and Materials for Containment and Cleaning Up: Mechanically recover the product. Notify authorities if product enters sewers or public waters. Dispose of materials or solid residues at an authorized site.

**Section 7. Handling and Storage**

Precautions for safe handling: Ensure good ventilation of the work station. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Take all necessary technical measures to avoid or minimize the release of the product on the workplace. Limit quantities of product at the minimum necessary for handling and limit the number of exposed workers. Provide local exhaust or general room ventilation. Wear personal protective equipment. Floors, walls and other surfaces in the hazard area must be cleaned regularly. Do not breathe dust/fume/gas/mist/vapors/spray. Avoid contact with skin and eyes.

Hygiene measures: Separate working clothes from town clothes. Launder separately. Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

Conditions for safe storage including any incompatibilities: Store locked up. Store in a well-ventilated place. Keep container tightly closed. Keep cool.

Section 8. Exposure Controls / Personal Protection**Control Parameters (Exposure Limits):**

Chemical Name	ACGIH- TWA (mg/m ³)	NIOSH REL - TWA (mg/m ³)
Microcrystalline Silica	0.025 mg/m ³ (Silica-Crystalline Quartz; USA; Timeweighted average exposure limit 8 h; TLV – Adopted Value; Respirable fraction)	0.05 mg/m ³ respirable dust
Aluminosilicate Refractory Ceramic Fibres	0.2 fibers/cm ³ (Synthetic Vitreous Fib., refractory ceramic fibers; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value; Respirable fibers: length > 5 µm; aspect ratio ≥ 3:1, as determined by the membrane filter method at 400-450X magnification (4- mm objective), using phase-contrast illumination)	N/A
Portland cement (1 mg/m ³ (Portland cement; USA; TWA exposure limit 8 h; TLV - Adopted Value; Respirable fraction. The value is for particulate matter containing no asbestos and < 1% crystalline silica)	N/A

Appropriate Engineering Control: Ensure good ventilation of the work station.

Personal Protective Equipment:

Respiratory Protection: In case of insufficient ventilation, wear suitable respiratory equipment.

Eye / Face Protection: Safety glasses.

Skin Protection: Wear suitable protective clothing. Protective gloves



Environmental exposure controls: Avoid release to the environment.

Section 9. Physical and Chemical Properties

Physical state:	Solid
Appearance:	Powder
Color:	Gray
Odor:	Low
Odor threshold:	No data available
pH:	6 – 8
Melting point:	No data available
Freezing point:	Not applicable
Boiling point:	662 °F
Flash point:	999 °C
Relative evaporation rate (butyl acetate=1):	No data available
Flammability (solid, gas):	Non flammable
Explosion limits:	Not applicable
Explosive properties:	No data available
Oxidizing properties:	No data available
Vapor pressure:	No data available
Specific gravity / density:	18 - 24
Relative density:	Not applicable
Relative vapor density at 20 °C:	No data available
Solubility:	Insoluble
Log Pow:	No data available
Auto-ignition temperature:	Not applicable
Decomposition temperature:	No data available
Viscosity:	Not applicable
VOC content:	0 g/l

Section 10. Stability and Reactivity

Reactivity: The product is non-reactive under normal conditions of use, storage and transport.

Chemical Stability: Stable under normal conditions.

Possibility of Hazardous reactions: No dangerous reactions known under normal conditions of use.

Conditions to Avoid: None under recommended storage and handling conditions (see section 7).

Incompatible Materials / Chemicals: No additional information available.

Hazardous Decomposition Products: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological Information

Information on toxicological effects:

Acute toxicity: Oral - Harmful if swallowed.

Tyfo WR-AFP: ATE US (oral) - 500 mg/kg body weight

Microcrystalline Silica:



TYFO® WR-AFP

IARC group: Carcinogenic to humans

Reproductive toxicity: Not classified

Specific target organ toxicity – single exposure: Causes damage to organs.

Specific target organ toxicity – repeated exposure: Causes damage to organs through prolonged or repeated exposure.

Aspiration hazard: Not classified

Symptoms/effects after skin contact: Irritation.

Symptoms/effects after eye contact: Mild eye irritation.

Section 12. Ecological Information

Ecotoxicity: The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.

Portland cement (65997-15-1): LC50 fish 1 > 1000 mg/l (LC50; 96 h)

Persistence and degradability: No (test) data on mobility of the substance available.

Bioaccumulative potential: No additional information available

Mobility in soil: No additional information available

Other adverse effects: No known effects from this product.

Section 13. Disposal Considerations

Waste treatment methods: Dispose of waste at an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

Uncleaned packaging: Do not re-use empty containers for food, clothing, or products for human or animal consumption, or where skin contact can occur. Dispose of container and unused contents in accordance with federal, state, and local regulations.

Section 14. Transport Information

DOT: Not Regulated

TDG: No information available

IMDG: No information available

IATA: No information available

Section 15. Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture

Federal Regulations:

All ingredients are listed on the United States TSCA (Toxic Substances Control Act) inventory with the exception of:

Refractory ceramic fibres, aluminosilicate (142844-00-6)

International regulations

Canada: No additional information available

EU-Regulations: No additional information available

**National regulations**

Quartz (14808-60-7): Listed on IARC (International Agency for Research on Cancer)

US State regulations

Quartz (14808-60-7): U.S. - California - Proposition 65 – Carcinogens - Listed

Section 16. Other Information**Key Legend Information:**

CAS: Chemical Abstracts Service
IATA: International Air Transport Association
ICAO: International Civil Aviation Organization
IMDG: International Maritime Dangerous Goods
NIOSH: National Institute for Occupational Safety and Health
OSHA: Occupational Safety and Health Administration

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