

**Product Name:** FIREFLY® Zeus Horizontal

**Revision Date:** 01/06/2021

**Version:** 1

## 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1 Product identifier

**Product Name:** FIREFLY® Zeus Horizontal

### 1.2 Relevant identified uses of the substance or mixture and advises against

Identified uses: Flexible Fire Barriers

### 1.3 Details of the supplier of the safety data sheet

#### Address

TBA Protective Technologies Ltd  
Unit 3, Transpennine Industrial Estate Gorrells Way  
Rochdale  
Lancashire, OL11 2PX

#### Email

info@tba-pt.com

### 1.4 Emergency Telephone Number

+44 (0)1706 647 422

## 2. HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or the mixture

#### Classification according to Regulation (EC) No 1272/2008:

Not applicable. This product is not classified under the European Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (CLP) and its subsequent amendments.

### 2.2 Label elements

**Hazard Pictograms:** Not applicable

**Signal Word:** Not applicable

**Hazard Statements:** Not applicable

**Precautionary Statements:** Not applicable

### 2.3 Other Hazards

#### Physical / Chemical Hazards:

WARNING: Causes mild skin irritation. May cause respiratory irritation

#### Health Hazards:

If dust is generated, it could cause minor mechanical irritation to the respiratory tract and may cause temporary irritation or rash on skin. May also cause temporary irritation or inflammation on eye contact.

#### Environmental Hazards:

No significant hazards. Material does not meet the criteria for PBT or vPvB in accordance with REACH Annex III.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Substances

Not Applicable. This material is regulated as an mixture.

### 3.2 Mixtures

This material is defined as a mixture

#### Description of Mixture:

Multi layered material consisting of Woven glass fabric with proprietary coating, glass felt coated with proprietary coating and Aluminium Foil

#### Hazardous ingredients

Ingredient Name	Max Amount (wt %)	CAS #	Classification according to Regulation (EC) No. 1272 [CLP]
Oxides of silicon, aluminium, calcium, boron, magnesium fused in an amorphous, vitreous state.	95%	65997-17-3	Not a hazardous substance or preparation
Surface sizing (Complex mixture)	10%	-	Not a hazardous substance or preparation
Aluminium	20%	7429-90-5	Not a hazardous substance or preparation

Note: The exact concentrations of the above listed chemicals are being withheld as a trade secret.

## 4. FIRST AID MEASURES

### 4.1 Description of first aid measures

**Skin:** Wash affected areas with soap and warm water

**Ingestion:** Drink plenty of water if accidentally ingested

**Eyes:** Flush eyes with copious amounts of water for at least 15 minutes

**Inhalation:** Remove to fresh air, drink water to clear throat and blow nose to evacuate fibres

**Other first aid information:** In all cases, if irritation persists seek medical attention.

### 4.2 Most important symptoms and effects, both acute and delayed

In the event of a fire, the combined ingredients may emit fumes and vapours that may cause irritation to the eyes.

### 4.3 Indication of any immediate medical attention and special treatment needed

The need to have special means for providing specific and immediate medical treatment available in the workplace is not expected.

## 5. FIREFIGHTING MEASURES

### 5.1 Extinguishing media

**Suitable extinguishing media:** All standard firefighting media (water, dry chemical, CO2 and foam)

### 5.2 Special hazards arising from the substance or mixture

**Hazardous combustion products:** Formation of trace amounts of toxic gases is possible when heated or in case of fire.  
Fumes of aluminum or aluminum oxide

### 5.3 Advice for firefighters

**Special fire fighting procedures:** In large fires, wear self-contained respiratory protective device.

## 6. ACCIDENTAL RELEASE MEASURES

### 6.1 Personal precautions, protective equipment and emergency procedures

Minimise airborne dust. Wear an approved mask or respirator if dust concentration exceeds local control limits or dust concentration is not known.

### 6.2 Environmental precautions

Prevent entry into waterways, sewers, basements or confined areas.

### 6.3 Methods and material for containment and cleaning up

Methods for cleaning up: Clean-up mechanically and dispose off as per Section 13.

### 6.4 Reference to other sections:

Refer to Section 7 for safe handling, Section 8 for personal protection and Section 13 for Waste disposal.

## 7. HANDLING AND STORAGE

### 7.1 Precautions for safe handling

Minimise airborne dust. Wear an approved mask or respirator if dust concentration exceeds local control limits or dust concentration is not known. Decomposition fumes are generated when exposed to high temperatures. Avoid contact with skin and eyes.

### 7.2 Conditions for safe storage, including any incompatibilities

Products should be protected from ingress of water. Store in a dry conditions. Ensure stability of products when stacked.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### 8.1 Control parameters

Exposure controls for hazardous components:

Glass Fibre	WEL (Workplace Exposure Limit) 8hr TWA	5.0 mg/m <sup>3</sup>
Aluminium	WEL (Workplace Exposure Limit) 8hr TWA	10.0 mg/m <sup>3</sup>

### 8.2 Exposure controls

Engineering controls: No specific measures.

Personal Protection: Personal protective equipment is recommended, especially when material is cut into.

Respiratory: Appropriate respiratory protection if necessary.

Hand: Sensitive individuals may need to wear gloves.

Eye: Wear goggles, especially when working above shoulders.

Skin: Wear long sleeved clothing to cover exposed skin.

### Environmental controls

Protect the environment by applying appropriate control measures to prevent or limit emissions.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Form: Multi-layered article	Odour: None
Colour: Various	Specific gravity: N/A
Melting point/Melting range: Glass Fibre > 800°C (1472°F) Aluminium Foil > 660°C (1220°F)	Flashpoint: N/A
Boiling point/Boiling range: Not applicable	Auto ignition temperature: N/A

## 10. STABILITY AND REACTIVITY

### 10.1 Reactivity

No specific test data related to reactivity available for this product or its ingredients.

### 10.2 Chemical stability

The product is stable. Avoid contact with strong bases.

### 10.3 Possibility of hazardous reactions

Under normal conditions of storage and use, hazardous reactions will not occur.

### 10.4 Conditions to avoid

No hazardous reactions when used as directed.

### 10.5 Incompatible materials

None.

### 10.6 Hazardous decomposition products

None in normal conditions of use.

## 11. TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

**Skin corrosion/irritation:** Prolonged contact may cause slight skin irritation with local redness.

**Serious eye damage/eye irritation:** Mechanical irritant to eyes

**Respiratory sensitisation:** Pre-existing upper respiratory and lung diseases may be aggravated.

**Aspiration Hazard:** May be harmful if swallowed and enters airways.

## 12. ECOLOGICAL INFORMATION

Mineral fibres are not readily, but potentially biodegradable. No known harmful effects on the environment.

## 13. WASTE DISPOSAL

Dispose as solid waste according to local regulations.

## 14. TRANSPORT INFORMATION

No special requirements. This product is not covered by international regulations on the transport of dangerous goods.

## 15. REGULATORY INFORMATION

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

Management of Health and Safety at Work Regulations 1999

Personal Protective Equipment at Work (Amendment) Regulations 2022

### EU Regulation (EC) No. 1907/2006 (REACH)

#### Annex XIV - List of substances subject to authorisation

Annex XIV None of the components are listed.

Substances of very high concern None of the components are listed.

**15.2 Chemical Safety Assessment:** Not applicable

## 16. OTHER INFORMATION

### History:

Date of issue / Date of revision: 01/06/2021

Prepared by: KG

Version: 1

### Disclaimer

All information and instructions provided in this Safety Data Sheet (SDS) are based on the current state of scientific and technical knowledge at the date indicated on the present SDS. The purpose of this information is to draw attention to the health and safety aspects concerning the products supplied by us, and to recommend precautionary measures for the storage and handling of the products. No warranty or guarantee is given in respect of the properties of the products. No liability can be accepted for any failure to observe the precautionary measures described in this data sheet or for any misuse of the products. TBA Protective Technologies Ltd shall not be held responsible for any defect in the product covered by this SDS should the existence of such defect not be detectable considering the current state of scientific and technical knowledge.