

Product Name: FIREFLY® Athena 60:60

Revision Date: 28/07/2023

Version: 1

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

1.1 Product identifier

Product Name: FIREFLY® Athena 60:60

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	w/w (%)	CAS #	Classification according to Regulation (EC) No. 1272 [CLP]
Oxides of silicon, aluminium, calcium, boron, magnesium fused in an amorphous, vitreous state.	up to 95%	65997-17-3	Not a hazardous substance or preparation
Surface sizing (Complex mixture)	up to 10%	-	Not a hazardous substance or preparation
Aluminium	up to 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

Eye contact: May also cause temporary irritation or inflammation on eye contact.

Ingestion: No symptoms.

Skin contact: Prolonged contact may cause irritation, dry skin and redness.

Inhalation: If dust is generated, it could cause minor mechanical irritation to the respiratory tract.

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

The product is inherently non-flammable.

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 and avoid contact with eyes. 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. Smoking, eating and drinking should be prohibited in areas of storage and use. For personal protection see **Section 8**.

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:

Substance	Occupational Exposure limit		Notations
	8 hr LTEL (mgm ⁻³)	15 min STEL (mgm ⁻³)	
Glass fibre	5	Not applicable	-
Aluminium	10	Not applicable	-

where:

LTEL: Long-term exposure limit – 8 hour time weighted average

STEL Short-term exposure limit – 15 mins time weighted average

8.2 Exposure controls

Engineering controls: Not applicable.

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

Respiratory: Suitable respiratory protective equipment must be worn if ventilation is insufficient.

Skin/Hand: Wear suitable protective clothing and plastic or rubber gloves.

Eye: Wear goggles, especially when working above shoulders.

Hygiene: Wash hands with **cold** water before breaks and immediately after handling products. Remove contaminated clothing.

Environmental controls

Protect the environment by applying appropriate control measures to meet the requirements set in **Section 13** and to prevent or limit emissions.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form: Multi-layered article

Colour: Various

Melting point/Melting range: Glass Fibre > 800°C (1472°F)

Aluminium Foil > 660°C (1220°F)

Boiling point/Boiling range: Not applicable

Odour: None

Specific gravity: N/A

Flashpoint: N/A

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

There is no evidence of toxicological effects of the product itself.

Skin corrosion/irritation: May be irritating to skin.

Serious eye damage/eye irritation: Mechanical irritant to eyes

Sensitisation: Pre-existing upper respiratory and lung diseases may be aggravated.

Ingestion: May cause discomfort if swallowed and may enter airways. May cause stomach pain.

Aspiration Hazard: No data available

12. ECOLOGICAL INFORMATION

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

13. WASTE DISPOSAL

Dispose as solid waste according to local regulations.

14. TRANSPORT INFORMATION

Transport within the users premises:

This product is not covered by international regulation on the transport of dangerous goods.

Onwards transport subsequent to purchase:

This product is not covered by international regulation 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: 28/07/2023

Prepared by: MA & 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.