

Product Name: FIREFLY® Ablative Coating

Revision Date: 19/01/2024

Version: 1

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

1.1 Product identifier

Product Name: FIREFLY® Ablative Coating

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

Identified uses: Fire-resistant coating designed for fire stopping systems

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: EUH208
May produce an allergic reaction. Coating contains 1,2-Benzisothiazol-3(2H)-one;
Mixture of: 5-Chloro-2-methyl-4-isothiazolin-3-one & 2-Methyl-2H-isothiazol-3-one (3:1).

Precautionary Statements: Not applicable

2.3 Other Hazards

Physical / Chemical Hazards:

WARNING: May produce an allergic reaction.

Health Hazards:

Environmental Hazards:

Not classified. 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:

Fire-resistant, halogen-free, water-based emulsion polymer coating.

Hazardous ingredients

Ingredient	CAS No.	Classification According to Reg. (EC) 1278/20228 (CLP)	w/w (%)
Dipropylene Glycol Dibenzoate (Oxydipropyl dibenzoate)	27138-31-4	Not a hazardous substance	<1.5%

4. FIRST AID MEASURES

4.1 Description of first aid measures

Skin: Wash skin thoroughly with soap and water. DO NOT USE SOLVENT OR THINNERS.

Ingestion: If accidentally swallowed wash mouth with water and give large quantity of water to drink. DO NOT induce vomiting.

Eyes: Contact lenses should be removed. Wash in large quantities with clean, fresh water for at least 10 minutes holding eyelids apart. Seek medical advice.

Inhalation: Remove to fresh air.

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

4.2 Most important symptoms and effects, both acute and delayed

Eye contact: May cause irritation or redness on contact with eyes.

Ingestion: No symptoms. If there is discomfort seek medical advice.

Skin contact: No symptoms.

Inhalation: No symptoms.

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 This product is inherently non-flammable.

Suitable extinguishing media: All standard firefighting media (water, dry powder, CO₂ and alcohol-resistant foam)

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products: Fumes and oxides of carbon could be released under high temperature (>300 °C)

5.3 Advice for firefighters

Special fire fighting procedures: In the event of a fire be aware of noxious fumes. Wear suitable respiratory protection equipment.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Avoid eye or skin contact. Wear an approved mask or respirator if coating mist concentration exceeds local control limits or coating mist concentration seems high but not known. Refer to Section 8 below for control measures.

6.2 Environmental precautions

Prevent entry into waterways or sewers. If this happens, inform local water company and relevant environment agencies.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up: contain and collect spillage with non-combustible absorbent materials such as sand, earth, vermiculite, etc., 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

Smoking, eating and drinking should be prohibited in areas of storage and use. Avoid eye or skin contact. Wear an approved mask or respirator if coating mist concentration exceeds local control limits or coating mist concentration seems high but not known. For detailed personal protection see Section 8.

7.2 Conditions for safe storage, including any incompatibilities

Keep out of reach of children. Keep containers closed when not in use. Protect the product from frost. Store between 5 and 25°C in a dry well-ventilated place away from sources of heat. Store separately from oxidising agents, strong alkaline and strong acidic materials.

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)	
None		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:

Provide adequate ventilation during application and drying. Where practicable this should be achieved by the use of local exhaust ventilation.

Personal Protection

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

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

Eye: Eye protection designed to protect against liquid splashes should be worn.

Hygiene: Wash hands before breaks and immediately after handling product using water and soap.
Remove contaminated clothing. Always wash hands before eating, smoking or using toilet.

Environmental controls

Protect the environment by applying appropriate control measures to meet the requirements set in Section 13.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form: Viscous liquid

Colour: White faces, brown edges

Melting point/Melting range: Not applicable

Boiling point/Boiling range: Not applicable

Odour: Not applicable

Specific gravity: 1.39 - 1.45 at 20 °C

Flashpoint: >100 °C

pH: 7.7 - 8.5

10. STABILITY AND REACTIVITY

10.1 Reactivity

The product is stable and un-reactive under normal conditions of use and storage.

10.2 Chemical stability

The product is stable and un-reactive under normal conditions of use and storage.

10.3 Possibility of hazardous reactions

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

10.4 Conditions to avoid

None expected.

10.5 Incompatible materials

None expected.

10.6 Hazardous decomposition products

On decomposition of the product (>300°C), formation of fumes of carbon oxides is expected.

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: Risk of irritation to eyes

Sensitisation: Not sensitising

Ingestion: May cause discomfort if swallowed. May cause stomach pain.

Aspiration Hazard: No data available

12. ECOLOGICAL INFORMATION

No known harmful effects on the environment.

13. WASTE DISPOSAL

Do not allow to enter drains or water courses. Wastes are controlled waste and should be disposed of in accordance with national and local regulations.

14. TRANSPORT INFORMATION

Transport within the users premises:

This product is not covered by international regulation on the transport of dangerous goods. However, always transport in closed containers that are upright and secure, ensuring that persons transporting the product know what to do in the event of an accident or spillage.

Onwards transport subsequent to purchase:

Transport to be in accordance with ADR for road, IMDG for sea and ICAO/IATA for air.

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: 19/01/2024
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.