

Product Name: FIREFLY® Graphite Intumescent Sealant

Revision Date: 29/05/2023

Version: 1

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

1.1 Product identifier

Product Name: FIREFLY® Graphite Intumescent Sealant

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

Identified uses: This water-based Graphite Intumescent Sealant has fire-stopping properties and it can be used as sealant or adhesive for filling and sealing flues and fire backs

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:
Not classified

Health Hazards:
Not classified

Environmental Hazards:
Not classified

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Not Applicable. This material is regulated as an mixture.

3.2 Mixtures

Description of Mixture:

High expansion graphite intumescent sealant

Hazardous ingredients

Ingredient Name	CAS No.	EC No.	REACH Registration No.	Classification According to Reg. (EC) 1278/20228 (CLP)	w/w (%)
Expandable Graphite	12777-87-6	231-955-3	01-2119514421-54-xxxx	Not classified	15 – 40%

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 skin thoroughly with soap and water. Do not use solvents or thinners. Seek medical attention if irritation persists.

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

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: Not applicable.

Other first aid information: In all cases of doubt or when symptoms persist or other cases, seek medical attention. Never give anything by mouth to an unconscious person.

4.2 Most important symptoms and effects, both acute and delayed

Eye contact: May cause irritation of the eye.

Ingestion: Possible discomfort . If there is any persistence of discomfort seek medical advice.

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

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 liquid product is 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: Above 200oC the product rapidly expands. Also generates dense smoke at > 200oC.

5.3 Advice for firefighters

Special fire fighting procedures: Do not allow run off from fire fighting to enter drains or water courses.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Avoid skin and eye contact. Wear suitable personnel protective equipment (gloves/protective clothing/eye protection/face protection). Refer to Section 8 below for control measures.

6.2 Environmental precautions

Do not allow to enter drains or water courses. If the product enters drains or sewers, the local water company should be contacted immediately. In the case of contamination of streams, rivers or lakes, the relevant Environment Agency.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up: Contain and collect spillages with non-combustible absorbent materials and place in a suitable container for disposal in accordance with the waste regulations

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

Avoid contact with skin and eyes. Smoking, eating and drinking should be prohibited in areas of storage and use. For personal protection see Section 8. The Manual Handling Operations Regulations may apply to the handling of containers/packages of this product.

7.2 Conditions for safe storage, including any incompatibilities

Store in cool, dry conditions between 5 °C and 25 °C in a dry well-ventilated place away from sources of heat. Protect the material from frost. Keep containers closed when not in use. Never use high pressure to empty. Observe label precautions. Keep out of reach of children. Store separately from oxidising agents or strong acidic materials. Ensure good housekeeping and regular safe removal of waste 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)	
Respirable silica	0.1	Not applicable	-
Expandable Graphite	Respirable 4 Total dust 10	Not applicable	Work Exposure limit (WEL)

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:

Personal protective equipment should be used.

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 products. Remove contaminated clothing.
ALWAYS WASH YOUR HANDS BEFORE EATING, SMOKING OR USING THE 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 paste

Colour: Dark grey

Melting point/Melting range: Not applicable

Boiling point/Boiling range: Not applicable

Solubility: Miscible with water

Specific gravity: 1.5-1.6 @ 20 °C

Flashpoint: >100 °C

pH: 7.5 - 8.5

10. STABILITY AND REACTIVITY

10.1 Reactivity

No data available

10.2 Chemical stability

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

10.3 Possibility of hazardous reactions

Not known

10.4 Conditions to avoid

See Section 10.3

10.5 Incompatible materials

See Section 10.3

10.6 Hazardous decomposition products

Oxides of carbon released under high temperature (>300 °C).

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

STOT: Not classified

12. ECOLOGICAL INFORMATION

No known harmful effects on the environment

13. WASTE DISPOSAL

Dispose of this material as hazardous or special waste in accordance with local or national requirements. Do not allow to enter drains or water courses.

14. TRANSPORT INFORMATION

Transport within the users premises:

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

Onwards transport subsequent to purchase:

Transport in bulk according to Annex II of MARPOL73/78 and the IBC code: Not applicable.

15. REGULATORY INFORMATION

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

Control of Substances Hazardous to Health Regulations 2002 Environment Act 1995

Management of Health and Safety at Work Regulations 1999

Personal Protective Equipment at Work Regulations 1992

Special Waste Regulations 1996 as amended

15.2 Chemical Safety Assessment: Not applicable

16. OTHER INFORMATION

History:

Date of issue / Date of revision: 29/05/2023

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.