



suppliers of passive fire products, acoustic and specialist insulation
manufacturers of the Safire Fire Stopping Range

Material Safety Data Sheet

SAFIRE FIRE SLEEVES

Section 1: Identification of the Substance/Preparation and of Company undertaking

1.1 Identification of the substance or preparation:

Product: Safire Fire Sleeves
Product Type: Intumescent
Application: Expands when heated. Used mainly in fire protection as a fire stopper

1.2 Company/undertaking identification:

Fireus Ltd, Unit 6, Thetis Road, Lune Industrial Estate, Lancaster, LA1 5QP,
United Kingdom
Telephone:01524 388898 Fax:01524 383724 [E-mail: info@fireus.co.uk](mailto:info@fireus.co.uk)

Section 2: Composition/Information on Ingredients

2.1 CHEMICAL DESCRIPTION

Exonerated mineral fibre and organic fibre with intercalated graphite and organic binder (latex).

2.2 HAZARDOUS INGREDIENTS

INGREDIENT	CAS NO	WT%
BALL CLAY (QUARTZ)	14808-60-7	28-44 Depending on Grade

Section 3: Harzards Identification

Contains respirable fibres. Can cause skin irritation. High dust levels may irritate the throat and eyes.

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Section 4: First Aid-Measures

- | | |
|------------------|--|
| 4.1 Eye contact | Gently irrigate with clean water for at least 15 minutes. move eyeball and keep eyelids wide open and apart whilst irrigating. Obtain medical attention immediately. |
| 4.2 Skin contact | If possible vacuum excessive dust from clothes as well as skin, hair etc. wash and clean contaminated skin with soap and clean water. |
| 4.3 Ingestion | It is not normally considered that mineral fibre products will be ingested, but if small quantities are ingested seek medical advice. |
| 4.4 Inhalation | Avoid breathing dust. If breathing difficulties experienced whilst machining, remove to fresh air and seek, medical advice |

Section 5: Fire-Fighting Measures

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| 5.1 Extinguishing media | is not flammable therefore not applicable. |
| 5.2 Fire and explosion hazard | not applicable. |
| 5.3 Protection measures | not applicable. |

Section 6: Accidental Release Measures

- | | |
|---------------------------|--|
| 6.1 Personal Precautions: | Protective clothing should be provided for workers when a significant quantity of fibres are liable to be deposited on their clothing. Clothes should be cleaned by a suitable organisation. |
| 6.2 Environmental: | Dust from intumescent products should be removed by vacuum, in a direction away from the operator, at frequent intervals during work to prevent the accumulation of dust- where vacuuming is not possible then the dust must be dampened and collected whilst still damp. All dust and hard waste should be placed in double impermeable, heavy gauge polythene sacks or bags which should then be sealed. Such waste must be disposed of at an authorised waste disposal site. Off-cuts should be disposed of in the same manner. |
| 6.3 Cleaning up: | See section 6.2. industrial type vacuum cleaners fitted with 'H' type filters and suitable bags must be used. |

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Section 7: Handling and Storage

- 7.1 Storage: Both machined or unmachined items should be packed to prevent movement and abrasion during transit and absorption of water. Otherwise normal safe precautions for handling can be employed. To avoid damage and distortion, store on a smooth level foundation. Store fully supported off the ground in a cool dry place. Protect from excessive heat.
- 7.2 Recommended shelf life: Likely to be indefinite under normal storage conditions.
- 7.3 Handling: No special protective measures are normally required. care should be taken not to exceed the safe working loads of lifting gear, hoists, stacker trucks, trucks, shelving or floors.

Section 8: Exposure Controls/Personal Protection

8.1 OCCUPATIONAL EXPOSURE LIMITS

CHEMICAL	MEL/OES
Exonerated Mineral Fibre	5 mg/ni/inhalable, 2 f/ml airborne fibre limit 8 hour twa (mel)
Ball Clay(quartz)	0.3 mg/m ³ (MEL)

8.2 ENGINEERING MEASURES

Fit and use approved extraction systems- local ventilation for machining areas. If dust levels are likely to exceed action limits, approved respirators must be used.

8.3 PERSONAL PROTECTIVE

Respiratory protection - see 8.2.

Hand protection - gloves can be used if desired but they should not be used with rotating equipment. Barrier cream can be used.

Eye protection - use approved eye protection whilst machining.

Skin protection - not applicable. however to aid personal hygiene suitable overalls can be worn.

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Section 9: Physical and Chemical Properties

Appearance:	various colours
Flash point:	N/A
Explosive properties:	N/A
Solubility:	N/A
Odour:	N/A
Viscosity:	N/A

Section 10: Stability and Reactivity

10.1 Stability:	Considered stable under relatively high temperatures and pressure, consult Fireus for application suitability before use. If exposed to other chemicals reactivity must be checked before use.
10.2 Conditions to avoid:	Incompatible chemicals.
10.3 Materials to avoid:	Consult Fireus.
10.4 Recommended materials for equipment:	No special requirements.
10.5 Hazardous decomposition products:	Residue will contain quartz.

Section 11: Toxicological Information

11.1 Short-term effects:	eye contact - irritation
	skin contact - whilst most peoples skin becomes resistant after a period of exposure, some need to take precautions to protect their skin and a small number may have to move to other work
	ingestion - n/a
	inhalation - nose and throat irritation.

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11.2 Chronic effects: As mineral fibres are respirable and may be retained in the lungs, there is the possibility of long term damage from exposure to high levels of dust. However, exonerated mineral fibres are much more biosoluble and will disappear even more rapidly than the traditional types.

Section 12: Ecological Information

12.1 LC50	N/A.
12.2 COD	N/A.
12.3 BOD	N/A
12.4 OTHER	will endure in the ground.

Section 13: Disposal Considerations

All intumescent products waste must be disposed of at an authorised site suitably packed and labelled as already indicated in section 6.2

Section 14: Transport Information

14.1 Packaging:	Pack to prevent abrasion and liberation of dust.
14.2 Freight classification	UN number - n/a
	ADR number- n/a
	IMDG code - n/a
	Packing group - n/a
	TREM card - n/a

Section 15: Regulatory Information

15.1 C.P.L classification:	none (as supplied condition). risk phrases-none. safety phrases-none.
15.2 Other legislation:	Health & Safety at Work Act 1974.
15.3 Additional guidance:	If you plan to carry out any cutting, sawing, drilling, machining or similar activities please refer to section 8 exposure control/personal protection.

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Section 16: Other Information

All grades contain graphite which is not recommended for electrical purposes. Note that dust from these products may compromise the integrity of electrical/electronic equipment.

Products which have been used at elevated temperatures (greater than 900°C) may undergo partial conversion to cristobalite, a form of crystalline silica. The maximum exposure limit (MEL) for mineral dusts containing cristobalite is 0.3 mg/m³.

The information contained in the Health and Safety Data Sheet is provided in accordance with the requirements of the CHIP Regulations. The product should not be used for purposes other than those identified without first referring to the supplier and obtaining written handling instructions. As the specific conditions of use of the product are outside the suppliers control, the user is responsible for ensuring that the requirements of relevant legislation are complied with. This information contained in the safety data sheet is based on present knowledge and current national legislation. It provides guidance on health, safety and environmental aspects of the product and should not be construed as any guarantee of technical performance or suitability for particular application.

The foregoing information is believed to be accurate at the time of preparation of this document, and is provided in good faith. However, no warranty or representation with respect to such information is intended or given.

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