



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

## Material Safety Data Sheet

Revision 3

Issue Date: 28.09.99

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

#### 1.1 Identification of the substance or preparation:

**Product:** Fireshield Total Comfort  
**Product Type:** Fire Cavity Barrier  
**Application:** Fire and cavity barrier

#### 1.2 Company/undertaking identification:

Fireus Ltd., Unit 6, Thetis Road, Lune Industrial Estate, Lancaster, LA1 5QP  
Tel. 01524 388898 Fax. 01524 383724

### **Section 2: Composition/Information on Ingredients**

**Ingredients:** **LGTS Basalt:** Silicon Dioxide 44.8%, Aluminium Oxide 13.6%, Total Iron (calculated as Fe<sub>2</sub>O<sub>3</sub> 12.3%, Calcium Oxide 10.5%, Magnesium Oxide 9.8%, Sodium Oxide 3.4%, Titanium Oxide 2.6%, Potassium Oxide 1.0%.  
**Lutrasil membrane:** synthetic non-woven, lightweight membrane.  
NO hazardous components  
**Wire mesh:** Galvanised wire mesh.  
**Stitching wire:** Stainless steel lacing wire.

### **Section 3: Hazards Identification**

#### **Health Hazards**

**Chronic:** The risk of chronic respiratory or skin conditions that are aggravated by mechanical irritants may heighten if exposed to this product.

**Acute:** Possible irritation to eyes and skin and in excessively dusty conditions, irritation to the upper respiratory tract; most people gain resistance after a transitory period. Control measures are aimed at protecting the eyes, skin and respiratory tract.

### **Section 4: First-Aid Measures**

**Eye Contact:** Flush eyes with running water for at least 15 minutes. Seek medical attention if irritation persists.

**Skin Contact:** Wash with a copious amount of water and some soap. To avoid further irritation, do not rub or scratch affected areas. Seek medical attention if irritation persists.

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**Inhalation:** Intake fresh air straight away. Seek medical attention if irritation persists.  
**Ingestion:** In the unlikely event, the individual should be monitored for several days to ensure intestinal blockage does not occur.

## **Section 5: Fire-Fighting Measures**

**Extinguishing Media:** Not applicable  
**Protective Measures:** Not applicable  
**Fire & Explosion Hazards:** Fire resistant material

## **Section 6: Accidental Release Measures**

**Land Spill:** Scoop up and dispose of in a suitable container as non-hazardous waste.  
**Water Spill:** The material will settle. It is non-hazardous in water.  
**Air release:** The material will settle out of the air and can be concentrated on land to be disposed of as non-hazardous waste.

## **Section 7: Handling and Storage**

### 7.1. Handling

**Precautions:** Good working practices will minimise the generation of and exposure to dust. Employees should be advised to rinse the skin with ample cold water before the application of soap to prevent aggravation of the skin by fibres. Do not use rotary cutting machines because of risk of entanglement of steel stitching wires.

### 7.2. Storage

**Precautions:** Standard warehouse conditions apply.

## **Section 8: Exposure Controls/Personal Protection**

### 8.1 Exposure Controls

**Occupational Exposure Limit:** The UK Health & Safety Executive enforce a Maximum Exposure Limit of  $5\text{mg}/\text{m}^3$  as measured by personal (breathing zone) monitoring. For microfibre fibres the HSE enforces a standard of 2 fibres/ml of air, with a recommended limit of 1 fibre/ml of air when deemed to be reasonably practicable.  
**Engineering Measures:** Where particularly dusty conditions are unavoidable, (e.g. handling insulating material in a confined space), dust should be controlled primarily by engineering control if practicable. On some occasions respiratory protection may be the only reasonably practical precaution for the respiratory system.

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## 8.2 Personal

<b>Respiratory Protection:</b>	Protective equipment may be necessary in excessively dusty operations or when exposure is above or near the Maximum Exposure Limit.
<b>Skin, Eyes, Other:</b>	Protective equipment for the skin should be supplied as standard. Most operators are best suited to wear loose clothing to avoid tight constriction at the neck and wrists. Safety glasses, goggles or a face shield may be required in some circumstances. Do not use rotary cutting equipment.

## Section 9: Physical and Chemical Properties

<b>Appearance:</b>	A spun man-made mineral fibre (MMMF) encapsulated with a Lutrasil membrane and stitched to a stainless steel hexagonal wire mesh. The average diameter ranges from 10-17 microns. It contains between 1.25 – 1.75% mineral oil as a dust suppressant and the fibres are encapsulated with a man-made tissue to minimise fibre migration.
<b>Odour, Flash Point, Solubility:</b>	Not applicable

## Section 10 Stability and Reactivity

<b>Stability:</b>	Stable
<b>Conditions to avoid:</b>	None
<b>Incompatibility:</b>	No materials to avoid
<b>Hazardous Decomposition Products:</b>	None

## Section 11: Toxicological Information

<b>Acute Effects:</b>	Basalt Mineral Wool is classified as an irritant Xi.
<b>Chronic Effects:</b>	LGTBS Basalt Mineral Wool is unclassified under the European Commission Directive on Man-Made Mineral Fibres (MMMF) Amendment (November 1997) according to Note R (length weighted geometric mean less 2 standard errors >6 microns). It is, therefore, not classed as a carcinogen.

## Section 12: Ecological Information

Not expected to cause harm to animals, fish or plants

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### **Section 13: Disposal Considerations**

Waste products are not hazardous and their disposal should be in accordance with local regulations.

### **Section 14: Transport Information**

No special precautions or restrictions involving transport or conveyance of Fireshield Total Comfort are known to LGTBS.

**Proper Shipping Name:** Long Strand Basalt Fibre

### **Section 15: Regulatory Information**

**Risk Phrase:** R38  
**Hazard Symbol:** Irritant Xi  
**Safety Phrases:** S (2), S36/37

### **Section 16: References**

Health and Safety Executive Guidance Note EH46 – Exposure to Mineral Wools (HMSO Publisher)  
Health and Safety Executive Guidance Note EH40/98 – Occupational Exposure Limits 1998 (HMSO Publisher)  
EU Directive 97/69EC (67/546/EEC Amendment MMVF)

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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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