

## Material Safety Data

Revision 6

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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:** Fire shield Total comfort Glass fabric  
**Product Code:** Flame shield 60 / Fire shield 60 / Fire shield 120  
**Product Type:** Continuous filament E-glass/E-glass Fabrics/E-glass needle mats  
**Application:** Various.

#### 1.2 Company/undertaking identification:

StoneShield – A Division of ARC Lancaster Ltd. Off Willow Lane, Lancaster, LA1 5NA, United Kingdom  
 Telephone: +44 1524 599600 Fax: +44 1524 599699 E-mail: sales@mcresources.co.uk

### Section 2: Composition/Information on Ingredients

**Ingredients:** A typical composition of E-glass is as follows: -

SiO <sub>2</sub> (Silicon Dioxide)	54.2%
Al <sub>2</sub> O <sub>3</sub> (Aluminium Oxide)	15.2%
CaO (Calcium Oxide)	17.3%
B <sub>2</sub> O <sub>3</sub> (Boron Oxide)	8.0%
MgO (Magnesium Oxide)	4.7%
Na <sub>2</sub> O (Sodium Oxide)	0.6%

### Section 3: Hazards Identification

#### Health Hazards

**Chronic:** None known.

**Acute:** Man made mineral fibres (MMMF) can cause irritation to the skin and eyes. It may also irritate the upper respiratory tract in excessively dusty conditions. Most people become resistant after a transitory period.

### 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 copious amounts of water and some soap. To avoid further irritation, do not rub or scratch affected areas. Seek medical attention if irritation persists.

**Inhalation:** Move person to fresh air. Seek medical attention if irritation persists.

**Ingestion:** Ingestion is unlikely, if it does occur, observe the individual for several days to insure that intestinal blockage does not occur.

### Section 5: Fire-Fighting Measures

**Extinguishing Media:** No limitations with regard to fire extinguishers.

**Protective Measures:** N/A Fire &

**Explosion Hazards:** None

### Section 6: Accidental Release Measures

**Land Spill:** Scoop up material and place in a suitable container for disposal as non-hazardous waste

**Water Spill:** The material will settle. It is non-hazardous in water.

**Air release:** This material settles out of the air and can be concentrated on land to dispose of as a non-hazardous material.

### Section 7: Handling and Storage

#### 7.1. Handling

**Precautions:** Employees should be instructed in good work practices in order to minimise generation of and exposure to dust. Advice on personal hygiene should be given to employees, particularly as regards washing. The skin should first be rinsed with copious amounts of cold water before the application of soap to prevent aggravation of the skin by fibres.

#### 7.2. Storage

**Precautions:** Standard warehousing conditions are applicable.

## Section 8: Exposure Controls/Personal Protection

### 8.1 Exposure Controls

**Occupational Exposure Limit:** The (UK) Health & Safety Executive enforce a workplace exposure limit as a Maximum Exposure Limit of 5mg/m<sup>3</sup> as measured by personal (breathing zone) monitoring and 2 fibres/millilitre averaged over an 8 hour TWA reference period.

**Engineering Measures:** Where particularly dusty operations are unavoidable control of dust should primarily be by engineering control, where this is practicable.

### 8.2 Personal

**Respiratory Protection:** On some occasions respiratory protective equipment may be the only reasonable practical precaution which can be taken to protect the respiratory system. Respiratory protective equipment should conform to BS 2091, BS 4558, BS 4771 or BS 6016, dependent upon the concentration of dust and the length of exposure time.

**Skin, Eyes, Other:** For employees handling this material standard protective equipment should be routinely supplied for protecting the skin. Safety glasses, goggles or face shields may be needed in some circumstances.

## Section 9: Physical and Chemical Properties

**Appearance:** Comprises of E-glass continuous fibre yarn. The mean diameter of the fibre ranges from 8-12 microns for yarn based products and 18-25 microns for roving based products.

**Odour, Flash Point, Solubility:** N/A

## Section 10 Stability and Reactivity

**Stability:** Stable

**Conditions to avoid:** None

**Incompatibility:** None

**Hazardous Decomposition**

**Products:** None

## Section 11: Toxicological Information

**Acute Effects:** There are no known acute effects.

**Chronic Effects:** This material is not expected to have any chronic (long-term) effect.

## Section 12: Ecological Information

This material is not expected to cause harm to animals, plants or fish.

## 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 continuous filament E-glass are known to Stoneshield

**Proper Shipping Name:** Continuous filament E-glass.

## 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 EH40/98 – Occupational Exposure Limits 1998 (HMSO Publisher)  
Control of Substances Hazardous to health (COSHH) Regulations 1988.

Approved Code of Practice COP29 – Control of Substances Hazardous to Health, Control of Carcinogenic Substances Hazardous to Health regulations 1988

Document HS G27 from the Health and Safety Executive – Substances for use at Work etc.

Health and Safety at Work etc. Act 1974 as amended by the Consumer Protection Act 1987

Chemicals (Hazard Information and Packaging for Supply) – Amendment Regulations 1998 (HSE Books) (CHIP<sup>98</sup>)

Respiratory Protective Equipment - A Practical Guide for Users (ISBN 011 8855220) (HMSO Publisher)

Respiratory Protective Equipment - legislative requirements and lists of HSE approved standards and type approved equipment (ISBN 0 11 885609X) (HMSO)

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