

## MATERIAL SAFETY DATA SHEET: QUADAXIAL FABRIC (INCL ALKALI RESISTANT)

### 1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND THE COMPANY

**Product name**

JESMONITE QUADAXIAL FABRIC (INCL ALKALI RESISTANT)

**Application of Product:**

Glass reinforcement

**Company Address:**

Jesmonite Limited. Challenge Court, Bishop's Castle, Shropshire, SY9 5DW

**Information in case of emergency:**

Tel:+44 (0) 1588 630302 Fax:+44 (0) 1588 630304 Web: www.jesmonite.co.uk Email: sales@jesmonite.co.uk

### 2. COMPOSITION / INFORMATION ON COMPONENTS

Ingredients:	% Weight	Control Limit
Fibrous Glass (E-type, continuous filament) composition consisting principally of oxides of silicon, aluminium, calcium, boron and magnesium fused in an amorphous vitreous state.	>90%	To be considered as a (non respirable) "nuisance" dust. Control limits According to local regulations.
Surface sizing (complex mixture in general of silanes and polymers)	<2%	None Established
Polyester stitching fibre	0.5 - 5%	None Established

Glass fibre does not meet the classification for a 'dangerous substance' according to 67/548/EEC and 97//69/EC. Glass fibre carries no CA or EPA designation number.

CAS reference 65997-13-3.

Glass Fibre is considered to be an article as defined in section 710.2 (f) of the US TSCA and as such is exempt from section 5 and section 8 (b) reporting requirements.

### 3. HAZARDS IDENTIFICATION

**Emergency Overview:** This product is stable and not flammable under normal industrial conditions. Exposure to continuous filament glass fibres sometimes causes irritation to the skin and, less frequently, irritation of the eyes, nose or throat. The primary route of entry into the body is inhalation. The glass fibres used have diameters greater than 3.5 microns and are therefore NOT respirable, nor can they become respirable by any normal industrial processing.

**Primary Route(s) of Entry:** Inhalation

**Sign and Symptoms of Overexposure:** Rash, itching, conjunctivities, coughing, sneezing

**Chronic/carcinogenity Status:** See Section 11

**Medical Conditions Aggravated by Exposure:** None Known

**EC Labelling Classification:** Not a dangerous substance or preparation

### 4. FIRST AID MEASURES

**Inhalation:** Move the person to fresh air - if irritation persists, seek medical attention. Product is NOT respirable

**Eye contact:** Flush eyes with a large amount of water for at least 15 minutes. Seek medical attention if irritation persists. Show this sheet to the doctor.

**Skin contact:** Rinse with running water (at least 15 minutes). Seek medical attention if necessary. Show this sheet to the doctor.

**Ingestion:** Seek medical protection.

### 5. FIRE FIGHTING MEASURES

**Flash point:** Non combustible

<b>Suitable extinguishing methods:</b>	Not applicable
<b>Special fire fighting procedures:</b>	In sustained fire self-contained breathing apparatus should be worn.
<b>Unusual fire and explosion hazards:</b>	Not applicable
<b>Special exposure hazards from fire:</b>	Hazardous products of combustion of sizings and binders may be released in a sustained fire. The larger part of the glass fibre product is non-flammable E-glass.

#### 6. ACCIDENTAL RELEASE MEASURES

<b>Steps to be taken if in case of material is released or spilled</b>	No special precautions.
<b>Environmental precautions:</b>	Avoid worsening the dispersion. Dispose of as a solid waste in accordance with Government regulations.
<b>Cleaning methods:</b>	Aspiration using a dust mask or face mask rated to particulate filtration standards. Nitrile gloves or better for skin protection.

#### 7. HANDLING AND STORAGE

<b>Precautions to be taken in handling</b>	None relative to health & safety. This product is to be considered as a non-respirable 'nuisance dust'. Control limits according to local regulations.
<b>Precautions to be taken in storage</b>	: For optimum perform, fabrics should be stored at a temperature less than 25°C and a relative humidity less than 65%. Sizing will degrade over time, product is recommended to be used within 12 months of manufacture.

#### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

<b>Respiratory Protection:</b>	Dust mask rated to particulate filtration P3 if airborne glass fibre concentrations exceed the control limit. Use local exhaust ventilation if necessary to maintain airborne levels below the established limit.
<b>Skin Contact:</b>	Adequate protective gloves (surgical or cotton type) may reduce skin irritation in some operations.
<b>Eye Contact:</b>	Safety glasses with side shields should be worn.
<b>Other protective equipment:</b>	Use of overalls, long trousers, and good personal hygiene will maximise comfort - a protective cream for the skin may also be useful.
<b>Measures procedures/ references:</b>	The American Conference of Governmental Hygienists has adopted a Threshold Limit Value (TLV) for fibrous dust of 15mg/m <sup>3</sup> (total) and 5mg/m <sup>3</sup> (respirable). The Occupational Safety and Health Administration (OSHA) does not prescribe a Permissible Exposure Limit (PEL) for fibrous glass but relies on the PEL-TWA's for nuisance dust 15mg/m <sup>3</sup> (total) and 5mg/m <sup>3</sup> (respirable).

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical state</b>	Solid
<b>Form</b>	Filament fibre
<b>Appearance</b>	Milky
<b>Colour</b>	Yellow to White
<b>Odour</b>	Odourless
<b>Specific gravity</b>	2.6 - 2.7g/m <sup>3</sup>
<b>Solubility</b>	Insoluble Fibre
<b>Melting Temp</b>	800°C
<b>Decomposition Temp</b>	1653°C
<b>Inflammation Temp</b>	Not Applicable
<b>Self-combusting Temp</b>	Not Applicable
<b>Explosiveness</b>	Not Applicable
<b>Steam Pressure</b>	Not Applicable
<b>Solvent Solubility</b>	Not Applicable

#### 10. STABILITY AND REACTIVITY

<b>Stability:</b>	Stable
<b>Conditions to avoid:</b>	None known
<b>Incompatibility (Material to Avoid):</b>	None known

## 11. TOXICOLOGICAL INFORMATION

**Factors in fibre toxicity:**

Fibre dimensions and degree of exposure.

**Fibre dimensions:**

Fibres of diameter larger than 3.5 microns are deemed as non-respirable. The fibres do not becoming respirable upon the sanding/machine processing activities of our customers. Upon fibre breakage, the fibres break horizontally into smaller lengths, but not longitudinally into smaller diameters.

**Degree of exposure:**

Not applicable.

**Carcinogenicity:**

The International Agency for Research on Cancer has designated continuous filament fibre glass, as a group 3, 'not classifiable as to human carcinogenicity'. This means that evidence is not sufficient to link that fibre to cancer.

## 12. ECOLOGICAL INFORMATION

Glass fibre is generally considered to be an inert solid waste not requiring special precautions in the event of accidental release or spillage.

## 13. DISPOSAL CONSIDERATIONS

There are no special precaution or restrictions involving transport of E glass fibre known to Formax UK Limited

## 14. TRANSPORT INFORMATION

There are no special precauions or restrictions involving transport of E-glass fibre known to Jesmonite Ltd

## 15. REGULATORY INFORMATION

Glass fibres are considered in Europe under the EC regulations as being additives when used as reinforcements for plastics that are intended to come into direct or indirect contact with food and as such have been listed in Annex III of Directive 96/11/EC under PM/Reference No. 55520 with no restrictions mentioned in the pertaining table.

## 16. OTHER INFORMATION

If you have any queries relating to this MSDS, it's contents or any other product safety related questions, please write to the following email address. Sales@jesmonite.co.uk

The data contained in this safety data sheet are based on our current knowledge and experience and describe the prodcut only with regard to safety requirements. The data do not describe the product's properties(product specification). Neither should any agreed property nor the suitability of the product for any specific purpose be deduced from the data contained in the safety data sheet. It is the responsibility of the recipient of the product to ensure any proprietary rights and existing laws and legislation are observed.