JESMONITE MADE FROM

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 filiment) 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 considred 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

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

6. ACCIDENTAL RELEASE MEASURES

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

7. HANDLING AND STORAGE

Precautions to be taken in: in handling	None relative to health & safety. This product is to be considered as a non-respirable 'nuisance dust'. Control limits according to local regulations.
Precautions to be taken in storage	: 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

Respiratory Protection:	Dust mask rated 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.
Skin Contact:	Adequate protective gloves (surgical or cotton type) may reduce skin irritiation in some operations.
Eye Contact:	Safety glasses with side shields should be worn.
Other protective equipment:	Use of overalls, long trousers, and good personal hygiene will maximise comfort - a protective cream for the skin may also be useful.
Measures procedures/ references:	The American Conference og Governmental Hygienists has adopted a Threshold Limit Value (TLV) for fibrous dust of 15mg/m3 (total) and 5mg/m3 (respirable). The Occupational Safety and Health Adminstration (OSHA) does not prescribe a Permissable Exposure Limit (PEL) for fibrous glass but relies on the PEL-TWA's for nuisance dust 15mg/m3 (total) and %mg/m3 (respirable).

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	Solid
Form	Filament fibre
Appearance	Milky
Colour	Yellow to White
Odour	Odourlesss
Specific gravity	2.6 - 2.7g/m3
Solubility	Insoluable Fibre
Melting Temp	800°C
Decomposition Temp	1653°C
Inflammation Temp	Not Applicable
Self-combusting Temp	Not Applicable
Explosiveness	Not Applicable
Steam Pressure	Not Applicable
Solvent Solubility	Not Applicable

10. STABILITY AND REACTIVITY

Stability:	Stable
Conditions to avoid:	None known
Incompatibility (Material to Avoid):	None known

11. TOXILOGICAL 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 lenghts, 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 sor restrictions involving transport of E glass fibre known to Formax UK Limited

14. TRANSPORT INFORMATION

There are no special precatuions 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.