



### Section 1: Identification of the substance

1.1 Identification of the substance or preparation: Fibrous

Glass, continuous filament.

Chemical Formula: E-glass

Product Types: Stitched, parallel laid fibre fabrics

### Section 2: Composition / Information on Ingredients

Ingredients % Weight Control Limit

Fibrous Glass (E-type, continuous filament)

Composition consisting principally of oxides, silicon, aluminium, calcium, boron and magnesium, fused in an amorphous vitreous state.

90.0% min 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

2.0% max 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 and no EPA designation number. CAS number: see under 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.

### Section 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 of 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 by Formax UK Limited

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

Signs and Symptoms of Overexposure: Rash, itching, conjunctivitis, coughing, sneezing

Health Hazards (acute): Exposure to continuous filament glass fibres sometimes causes irritation of the skin and,

less frequently irritation of the eyes, nose, or throat.

(Chronic)/Carcinogenity Status: see Section 11

Medical Conditions Aggravated by Exposure: None known

EC Labelling Classification: Not a dangerous substance or preparation

### Section 4: First-Aid Measures

Eye Contact: Flush eyes with clear water for at least 15 minutes – seek medical attention

Skin Contact: Rinse contact areas with room temperature to cool water, then wash gently with mild soap. If

glass fibre becomes embedded, seek medical attention

Inhalation: If irritation persists, seek medical attention. Product is NOT respirable. If swallowed: Seek medical attention

#### Section 5: Fire-Fighting Measures

Flash Point: Non-burning

Flammable Limits: Not applicable

Extinguishing Media: 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

released in a sustained fire. The larger part off the glass fibre product is non-flammable E-glass

#### Section 6: Accidental Release Measures

Steps to be taken in case material is released or spilled: No special precautions

Waste Disposal Method: Dispose of as a solid waste in accordance with Government regulations.

#### Section 7: Handling and Storage

Precautions to be taken in Handling: Non relative to health and 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 performance, Formax UK Limited fabrics should be stored at

a temperature less than 25°C and a relative humidity less than 65%.

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

Respiratory Protection: None normally required. If airborne glass fibre concentrations exceed the control limit,

respiratory protection for nuisance dusts should be provided.

Ventilation: Use local exhaust ventilation if necessary to maintain airborne levels to below established limit.

Skin Protection: Protective gloves may reduce skin irritation in some operations.

Eye Protection: Safety glasses with side shields should be worn

Other Protective Equipment: Use of overalls, long trousers, and good personal hygiene will maximise comfort.

Measurement Procedures/References: 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 of 15mg/m<sup>3</sup> (total) and 5mg/m<sup>3</sup> (respirable).

#### Section 9: Physical and Chemical Properties

Appearance: Yellow to white fibres bound together in strands Odour: None

PH: Not applicable Boiling Point: Not applicable

Melting Point (softening): 800°C Freezing Point: Not applicable  
Flash Point: Non-burning Flammability: Not applicable  
Auto-ignition/explosion limits: Non applicable Oxidation Risk: Non applicable  
Electrical conductivity: E-glass is an electrical insulator Autoflammability: Non applicable  
Evaporation Rate: Not applicable Vapour Pressure: Not applicable  
Specific Gravity (bare glass): 2.6-2.7 Vapour Density: Not applicable  
Percent Volatile: Wet chopped strands: 15%, Mat: 6.5%, Other 2% Solubility: Insoluble in water  
Octanol/water Partition Coefficient: Not applicable

#### Section 10: Stability and Reactivity

Stability: Stable

Conditions to avoid: None known

Incompatibility (Material to Avoid): None known Hazardous Decomposition Products: In a sustained fire, sizings and binders may decompose releasing hazardous products of combustion (see Section 5)

Hazardous Polymerisation: Will not occur

#### Section 11: Toxicological Information

Factors in fibre toxicity include: Fibre dimensions and degree of exposure

Fibre Dimensions: fibres of diameters larger than 3.5 microns are deemed as being non-respirable. The fibres

do not become 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.

#### Section 12: Ecological Information

Because glass fibre is generally considered to be an inert solid waste, no special precautions should be taken in case it is released or spilled.

#### Section 13: Disposal Considerations

Glass fibre is generally considered to be an inert solid waste not requiring hazardous waste disposal procedures.

#### Section 14: Transport Information

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

#### Section 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.

Section 16: Other information

Ask for the APFE brochure "Some Facts on Continuous Filament Fibre Glass and Human Health".