HEALTH AND SAFETY DATA SHEET
Woven, Unidirectional and Multiaxial Glass Fibre Products

1. IDENTIFICATION OF SUBSTANCE

Trade name: Woven, Unidirectionals and Multiaxial Glass Fibre Products

Supplier: MB Fibreglass **Tel:** 02890 861992
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Newtownabbey
Co.Antrim
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2. HAZARD IDENTIFICATION

Classification: With regard to its composition, this product is not hazardous according to European directives 67/548/EEC or 1999/45/EC and their latest amendments.
The product is stable and not flammable under normal industrial conditions.

Health Effects: Continuous exposure of glass fibre filaments end/or synthetic fibres may sometimes cause irritation of the skin and less frequently, of the eyes, nose or respiratory tract.
For detailed explanation see section 11.

3. COMPOSITION/INFORMATION ON INGREDIENTS

CAS number	Name of the ingredient	Percent by Wt.	Warning symbol, R phrases and other data on the ingredient
65997-17-3	Continuous Filament Glass fibres	85 – 100	N/A
N/A	Organic Sizing/Binder	0 – 15	N/A
N/A	Polyester Yarn (*)	0 – 6	N/A

(*) Only present in certain products, such as multiaxial fabrics.
Glass fibre is composed principally of oxides of silicon, aluminium and calcium, fused in an amorphous vitreous state.

4. FIRST AID MEASURES

Special Instructions:	Immediate medical attention is not required.
Inhalation:	Move patient to fresh air. If persistently irritant seek medical attention.
Skin contact:	Wash with cool water and mild soap. If fibreglass becomes embedded or causes cut wounds seek medical attention.
Eye contact:	Immediately flush eyes with plenty of running water, also under eyelids, for at least 15 min, seek medical attention.
Ingestion:	Gently wipe or rinse the inside of the mouth with water. Sips of water can be given. Never give anything by mouth to an unconscious person. Seek medical attention.
Information to doctor or other trained persons giving first aid:	Skin irritation responds well to mild hydrocortisone cream.

5. FIRE FIGHTING MEASURES

Suitable extinguishing media:	Water, carbon dioxide (CO_2), dry chemical and foam.
Extinguishing media that must not be used for safety reasons:	N/A
Special exposure hazards in a fire:	Small amount of gases, like CO, CO_2 and H_2 are released at decomposition of sizing and binder. Other undetermined compounds may also release in very small quantities.
Special protective equipment for fire-fighters:	In a sustained fire self-contained breathing apparatus (SCBA) should be worn.
Other instructions:	Glass fibre itself will not support combustion, but in a sustained fire, proper protection against products of combustion from the fuel and sizing/binder must be worn.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:	See section 8.
Environmental precautions:	Glass fibre is considered as inert industrial waste and no special environmental precautions are required.
Methods for cleaning up:	Sweep or gather up material and place in proper container for disposal or recovery. Use vacuuming or wet seeping methods instead of dry methods. Dispose of as a solid waste in accordance with local regulations. Avoid creation of excessive dust.

7. HANDLING AND STORAGE

Handling:	Normal care to be taken.
Storage:	Products should be stored at temperatures 15 - 35°C and at relative humidity of between 40-40% in their original packages to maintain the original properties of the product.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure limits:	8-hour Time Weighted Average (TWA); 15-minute Short-Term Exposure limit (STEL)
OSHA:	15 mg/m³ TWA. (total dust) 5 mg/m³ TWA. (respirable dust)
ACGIH:	5 mg/m³ TWA. (inhalable fraction) 1 fibre/cm³ TWA (respirable fraction)
Respiratory protection:	If use or application of this product generates dust, use an appropriate FFP1 or FFP2 particulate filter.
Hand protection:	Use of protective gloves or barrier creams to prevent skin irritation.
Eye protection:	Use of safety glasses with side shields if airborne glass fibre concentration exceeds nuisance level.
Skin protection:	Use lightweight protective clothing to minimize skin irritation.
Environmental exposure controls:	No special environmental precautions required.
Hygiene measures:	Wash hands before breaks and after work. Use barrier skin cream.
Other protective equipment:	Wear clean, body-covering clothing. Good personal hygiene and the use of barrier creams, caps, protective gloves, cotton coveralls or long sleeved loose fitting clothing will maximize comfort. Vacuum equipment may be used to remove fibres from clothes. Work clothing should be laundered separately from other clothing before reuse.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form:	Fibre
Colour:	Yellow-white to white
Odour:	Odourless
Fibre diameter:	Glass fibre filaments have diameters in the range of 9 - 25μm, depending on product. The filaments will not subdivide into fibrils of smaller diameter.
pH:	Neutral if wetted
Boiling Point / boiling range:	N/A
Vapour Density (Air=1):	Not applicable.
Specific Gravity (Water=1):	2.6 – 2.7 (bare glass)
Freezing / Melting Point:	>~1400°F (800°C)
Bulk Density (kg/M3):	N/A
Volume % Volatile:	None
Vapour Pressure:	N/A
Evaporation Rate:	N/A
Heat of solution:	N/A
Softening Point:	800°C
Flash point:	N/A
Flammability (solid, gas):	N/A
Explosive Properties	
Explosive limits:	N/A
Relative density:	2.6
Solubility:	Insoluble in water.

10. STABILITY AND REACTIVITY

Conditions to avoid:	High humidity and temperature may affect properties of the product.
Materials to avoid:	Wet product loses partly its strength and becomes unusable but is not hazardous.
Hazardous decomposition products:	The product starts to decompose gradually at temperatures above 220°C when also small amounts of decomposition gases are released.

11. TOXICOLOGICAL INFORMATION

Acute toxicity:	Not relevant
Eye:	Dust from this product may cause temporary mechanical irritation to the eyes.
Skin:	Dusts from this product may cause temporary mechanical irritation to the skin.
Inhalation:	Dusts from this product may cause mechanical irritation of the nose, throat and respiratory tract.
Ingestion:	Although ingestion of this product is not likely to occur in industrial applications, accidental ingestion may cause irritation of the mouth and gastrointestinal tract.
Irritation and corrosiveness:	Dust and fibres may cause mechanical irritation to eyes and skin. The irritation disappears when the exposure ceases.
Empirical data on effects on humans:	-
Other information on health effects:	Continuous filament glass fibres are not respirable according to the World Health Organization (WHO) definition and therefore not carcinogenic (NTP, IARC, OSHA); respirable fibres have a diameter (d) smaller than 3µm, a length (l) larger than 5µm and a l/d ratio larger than or equal to 3. Long term use or contact with non-respirable continuous glass fibres is not known to affect health. Non-respirable glass fibres are not able to reach the deep lung due to their diameter which is greater than 3.5µm. They may deposit on the surface of the upper respiratory tract or nose and they are cleared through normal physiological mechanisms. Inhalation may cause coughing, nose and throat irritation and sneezing. Continuous filament glass fibres that are chopped, crushed or severely mechanically processed during use, however, may contain small amounts of respirable particles.

12. ECOLOGICAL INFORMATION

Ecotoxicity:	Glass fibre is generally considered to be an inert solid waste. No special precautions are needed in case of a release or spill.
Mobility:	N/A
Persistence and degradability:	N/A
Other adverse effects:	N/A

13. DISPOSAL CONSIDERATIONS

The products are considered as inert industrial waste and can be disposed of as solid waste. However, the local regulations should be taken into account. EWC-code for used glass fibre material is 101103.

Fibreglass products which are part of reinforced plastics must be disposed of in accordance with requirements for those plastics and resins where they exist.

Packaging materials should be recycled according to local regulations.

14. TRANSPORT INFORMATION

UN – number:	-
Packing group:	-
Correct technical name:	Not regulated.
Land transport:	-
Sea transport:	-
Air transport:	-
Other information:	The product must be protected from high temperatures and moisture to maintain the original properties of the product.

15. REGULATORY INFORMATION

This product is not hazardous according to European Directive 99/45/EC, 67/548/EEC and their latest amendments.

Continuous Filament Glass Fibre (CFGF) products are articles in the meaning of REACH (1907/2006/ER).

16. OTHER INFORMATION

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II

NOTICE

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