

MATERIAL SAFETY DATA SHEET

Ahlstrom Glassfibre Oy 9.7.2001

1. IDENTIFICATION OF THE CHEMICAL AND THE MANUFACTURER, IMPORTER OR OTHER UNDERTAKING

1.1 Identification of the substance or preparation

Trade name: Chopped strands, Wet chopped strands, Chopped strand mat, Rovings, Texturised Rovings, Woven Rovings, Multiaxials and Combination products made of E-glass.

1.2 Identification of the manufacturer, importer or other undertaking

1.2.1 Manufacturer, importer, other undertaking

Ahlstrom Glassfibre Oy

1.2.2 Street address

FRP Services & Co. (America) Inc.
10 Bank Street, Suite 450
White Plains NY 10606

1.2.3 Name and address of the informant in emergency cases
Emergency telephone number

(914) 686-4090

1.2.4 Information on foreign manufacturer

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2. COMPOSITION AND INFORMATION ON INGREDIENTS

2.1 Description

Continuous filament glassfibre, made of E-glass (90wt%min) with an organic polymer size less than 3 wt-%, mat less than 10 wt-% (complex mixture; in general silanes and polymers). Combination products may contain synthetic fibre up to 30% stitching yarn or synthetic fibre layer.

2.2 Hazardous ingredients

2.2.1 CAS number or other code

-

2.2.2 Name of the ingredient

-

2.2.3 Concentration

-

2.2.4 Warning symbol, R phrases and other data on the ingredient

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2.2.5 Full chemical name of the ingredient (CAS number : name)

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2.2.6 Other information

Glass as a generic substance, the E-glass composition including, has been incorporated in the EINECS under Nr. 65 997-17-3. Glass fibre is considered to be an article as defined in section 710.2 of TSCA and, as such, is exempt from section 5 and section 8 (B) reporting requirements.

3. HAZARDS IDENTIFICATION

The product is stable and not flammable under normal industrial conditions. Continuous exposure of glassfibre filaments can sometimes cause irritation of the skin and less frequently, of the eyes, nose or throat.

4. FIRST AID MEASURES

4.1 Special instructions

To be treated with normal care.

4.2 Inhalation

If persistingly irritant seek medical attention.

4.3 Skin

Rinse contacted areas with room temperature to cool water, when necessary mild soap can be used. If glassfibre becomes embedded or causes cut wounds seek medical attention.

4.4 Splashes in eyes

Flush eyes with pure water for 15 minutes, seek medical attention.

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|-----|---|-------------------------|
| 4.5 | Ingestion | Seek medical attention. |
| 4.6 | Information to doctor or other trained persons giving first aid | - |

5. FIRE FIGHTING MEASURES

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|-----|---|--|
| 5.1 | Suitable extinguishing media | Non -burning material |
| 5.2 | Extinguishing media which must not be used for safety reasons | Not applicable |
| 5.3 | Special exposure hazards in a fire | In sustained fire sizings and binders may decompose releasing hazardous products on combustion. However, the larger part of the product consist of non -flammable E-glass. |
| 5.4 | Special protective equipment for a fire | In a sustained fire, self -contained breathing apparatus should be worn. |
| 5.5 | Other instructions | - |

6. ACCIDENTAL RELEASE MEASURES

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|-----|---------------------------|--|
| 6.1 | Personal precautions | No special precautions |
| 6.2 | Environmental precautions | - |
| 6.3 | Methods for cleaning up | Dispose of as a solid waste in accordance with government regulations. |
| 6.4 | Other instructions | - |

7. HANDLING AND STORAGE

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|-----|----------|---|
| 7.1 | Handling | Normal care to be taken care |
| 7.2 | Storage | No special safety precautions, for optimum performance Ahlstrom Glassfibre products should be stored at temperatures 15 - 25°C and at a relative humidity below 65% in their original packages. |

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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|-------|---|---|
| 8.1 | Technical measures for exposure controls | Use local exhaust ventilation if necessary to maintain airborne levels to below established limit. |
| 8.2 | Limit values for workplace air | |
| 8.2.1 | HTP Values | - |
| 8.2.2 | Other information on limit values | The American Conference of Governmental Hygienists (ACGIH) has adopted a Tershold Limit Value (TLV) for fibrous glass of 10 mg/m ³ . (TWA, 8 hours) |
| 8.3 | Personal protective equipment | |
| 8.3.1 | Special instructions for protection and hygiene | Use of overalls, buttoned to fit loosely at the neck and wrists will maximize comfort both on cleaning up and during normal processing activities. Using barrier creams may provide additoinal comfort. |
| 8.3.2 | Respiratory protection | None normally required, can be used for convenience when workplace ventilation is limited . |
| 8.3.3 | Hand protection | Protective gloves may reduce skin irritation in some operations. |
| 8.3.4 | Eye protection | Safety glasses with side shields. |
| 8.3.5 | Skin protection | Ref. 8.3.1 |

9. PHYSICAL AND CHEMICAL PROPERTIES

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|-----|----------------------------------|--|
| 9.1 | Physical state, colour and odour | Yellow -white to white, colourless fibre bundles in nonwoven, woven, multiaxial, or in combination products. No odour. |
| 9.2 | pH | Not applicable |

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9.3 Information on changes in the physical state

9.3.1	Boiling point / boiling range		Not applicable
9.3.2	Melting point / melting range		800°C (softening)
9.3.3	Decomposition temperature		Not applicable
9.4	Flash point		Not applicable
9.5	Flammability (solid /gas)		-
9.6	Autoflammability		-
9.7	Explosion hazard		-
9.8	Explosive limits	a) lower b) upper	- -
9.9	Oxidizing properties		Not applicable
9.10	Vapour pressure		Not applicable
9.11	Relative density		2.5
9.12	Solubility	a) water solubility b) fat solubility	- -
9.13	Partition coefficient(for ingredients): n- octanol /water		-
9.14	Viscosity		-
9.15	Other information		-

10. STABILITY AND REACTIVITY

10.1	Conditions to avoid	None known
10.2	Materials to avoid	None known
10.3	Hazardous decomposition products	In sustained fire, sizings may decompose releasing hazardous products on combustion.

11. TOXICOLOGICAL INFORMATION

11.1	Acute toxicity	-
11.2	Irritancy and corrosiveness	-
11.3	Sensitization	-
11.4	Subacute, subchronic and prolonged toxicity	-
11.5	Empirical data on effects on humans	-
11.6	Other information n health effects	Ahlstrom Glassfibre Oy manufactures only fibres with a diameter above 7µm which are classified as not respirable fibres.

12. ECOLOGICAL INFORMATION

12.1	Persistence in the environment	
12.1.1	Biodegradation	Glassfibre is considered to be an inert solid waste not requiring hazardous waste disposal. Glassfibre products which have become part of a reinforced plastic must be disposed of in accordance with requirements for those plastics or resins where they exist.
12.1.2	Chemical degradation	-
12.2	Bioaccumulation	-
12.3	Mobility	-
12.4	Toxic effects on organisms	
12.4.1	Aquatic toxicity	E-glass is an inert solid not soluble in water.
12.4.2	Other toxicity	-
12.5	Other information	-

13. DISPOSAL CONSIDERATIONS

Dispose of as solid waste in accordance with local Governmental regulations

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14. TRANSPORT INFORMATION

14.1	UN number	-
14.2	Packaging category	-
14.3	Land transport	
14.3.1	Transport class	-
14.3.2	Risk code	-
14.3.3	Name according to bill of freight	-
14.3.4	Other information	-
14.4	Sea transport	
14.4.1	IMDG class	-
14.4.2	Correct technical name	-
14.4.3	Other information	-
14.5	Air transport	
14.5.1	ICAO /IATA class	-
14.5.2	Correct technical name	-
14.5.3	Other information	-

15. REGULATORY INFORMATION

15.1	Information on the warning label	
15.1.1	Letter code of the warning symbol and indications of danger for the preparation	-
15.1.2	Names of the ingredients given on the warning label	-
15.1.3	R phrases	-
15.1.4	S phrases	-
15.1.5	Special regulations on certain preparations	-
15.2	National regulations	-

16. OTHER INFORMATION

16.1	Purpose of use	
16.1.1	Expressed in writing	Product is meant to be used as an reinforcement material in plastic industry, Glassfibre Reinforced Plastics, GRP
16.1.2	Code for the purpose of use	-
	SIC1 KT1	
	SIC2 KT2	
	SIC3 KT3	
	SIC4 KT4	
	SIC (TOL) Standard industrial classification	
	KT Desired effect of the chemical	
16.2	Directions for use	-
16.3	Other information	-
16.4	Additional information available from	
16.5	Sources of information used in the compilation of the safety data sheet	-
	Reasons for the confidentiality of the information:	-

Date :

Signature: