Safety Instructions of Use

Generic product name: Chopped Strands, Wet Chopped Strands, Chopped Strand Mat, Assembled Roving, Direct Drawn Roving, Texturised Roving, Woven Roving and Multiaxial products made of Continuous Filament E-glass
Date: 01-March-2010

0. INTRODUCTION

The European Regulation (ER) on Chemicals No. 1907/2006 (REACH) enforced on June 1st, 2007 does only require Safety Data Sheet (SDS) for hazardous substances and preparations. Our Continuous Filament Glass Fibre products (CFGF) are articles under REACH and therefore, SDS requirement is not applicable.

Ahlstrom Glassfibre Oy will however continue to communicate to its customers, the appropriate information for assuring the safe handling and use of Continuous Filament Glass products through a new document: Safety Instructions of Use.

1. PRODUCT AND MANUFACTURER IDENTIFICATION

Identification of the substance

Generic product name
Chopped Strands, Wet Chopped Strands, Chopped Strand Mat, Assembled Roving, Direct Drawn Roving, Texturised Roving, Woven Roving and Multiaxial products made of Continuous Filament E-glass

Purpose of use
Products are meant to be used as reinforcement material in plastic industry, Glassfibre Reinforced Plastics, GRP

Identication of the manufacturer

Manufacturer

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48601 Kotka – FINLAND

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Y code	0852867-8

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Telephone number	+358 10 888 12
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Emergency telephone

Ahlstrom Glassfibre Oy
Telephone +358 10 888 11

2. HAZARDS IDENTIFICATION

Classification
With regard to its composition, this product is not hazardous according to EC-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 glassfibre filaments and/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 AND INFORMATION ON INGREDIENTS

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

CAS number	Name of the ingredient	Percent by Wt.	Warning symbol, R phrases and other data on the ingredient
65997-17-3	Continuous Filament Glassfibres	85 - 100	N/A
N/A	Organic Sizing / Binder	0 - 15	N/A
N/A	Polyester Yarn[1)]	0 - 4	N/A

[1)] Woven Roving and Multiaxial products

4. FIRST AID MEASURES

Special instructions
Immediate medical attention is not required.
Inhalation
Move patient to fresh air. If persistingly irritant seek medical attention.
Skin contact
Wash with cool water and mild soap. If fiberglass 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
Seek medical attention.
Information to doctor of 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 which 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
Main part of the product is E-glass which does not burn.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions
See section 8.
Environmental precautions
Glassfibre is considered as inert industrial waste and no special enviromental precautions are required.

Methods for cleaning up
Dispose of as a solid waste in accordance with government regulations. Avoid creating 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 below 75% in their original packages to maintain the original properties of the product.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational exposure controls
Continuous Filament Glass Fibres are not respirable. However, certain mechanical processes might generate airborne dust or fibre (see section 11). The occupational exposure limits below mentioned are applicable to airborne fibre exposure and/or to dust exposure.

	Respirable Dust	Total Dust	Respirable Fibre
ACGHI	3 mg/m^3	15 mg/m^3	1 fibre/ml
Austria	6 mg/m^3		0.5 fibre/ml
Denmark	6 mg/m^3	10 mg/m^3	1 fibre/ml
Finland		10 mg/m^3	1 fibre/ml
France		10 mg/m^3	1 fibre/ml
Germany	3 mg/m^3	4 mg/m^3	0.25 fibre/ml
Ireland	5 mg/m^3		2 fibres/ml
Italy	3 mg/m^3	10 mg/m^3	1 fibre/ml
Netherlands	2 mg/m^3	10 mg/m^3	1 fibre/ml
Norway	5 mg/m^3	10 mg/m^3	1 fibre/ml
Portugal		4 mg/m^3	1 fibre/ml
Spain	3 mg/m^3	10 mg/m^3	1 fibre/ml
United Kingdom	5 mg/m^3	10 mg/m^3	2 fibres/ml

NOTE! The user of CFGF products has to comply with the national regulation in term of health worker protection.

Respiratory protection
None normally required, can be used (FFP1 or FFP2) for convinience when work place ventilation is limited.
Hand protection
Use of protective gloves or barrier creams to prevent skin irritation.
Eye protection
Use 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.

9. PHYSICAL AND CHEMICAL PROPERTIES

General information (physical state, colour and odour)
Yellow-white to white, solid E-glass with organic sizing-chemicals and binder, no odour.
Fibre diameter
Glassfibre filaments have diameters in the range of 9 – 25 µm, depending on product. The filaments will not subdivide into fibrils of smaller diameter.

Important health, safety and environmental information

pH
Neutral if wetted
Boiling point / boiling range
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.

Other information

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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 ºC when also small amounts of decomposition gases are released.

11. TOXICOLOGICAL INFORMATION

Acute toxicity
Not relevant

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
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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 nonrespirable continuous glassfibres is not known to affect health. Nonrespirable glassfibres are not able to reach the deep lugn due to their diameter which is greater than 3.5 µm. 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 glassfibres that are chopped, crushed or severely mechanically processed during use, however, may contain small amount of respirable particles.

12. ECOLOGICAL INFORMATION

Ecotoxicity
N/A
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 glassfibre material is 101103.

Fiberglass 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
Chopped Strands, Wet Chopped Strands, Chopped Strand Mat, Assembled Roving, Direct Drawn Roving, Texturised Roving, Woven Roving and Multiaxial products made of Continuous Filament E-glass
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

The information in this Safety Instructions of Use is given according to our best knowledge at the date shown. The information is a guidance for safe handling, use, processing, storage, transportation, disposal and release. This document does not exempt users from knowing and applying the rules regulating their activities. The user must recognise risks if using the product for any other purpose than the one for which it was designed.