

## Section 1 - Product & Supplier Identification

### Product Name

Glass Fibres - Continuous glass fibres products

### Details of the supplier of the safety data sheet

Premier Farnell plc

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+44 (0) 8701 202530

### Emergency telephone number

+44 1865 407333

## Section 2 - Composition/Information on Ingredient

**Continuous filament glass fibre (CFGF) products are articles in the meaning of REACH (1907/2006/ER).**

CFGF products are made of glass which is given a specific shape (filament) and dimension (filament diameter).

A surface treatment (sizing) is applied to the filaments which are gathered to form a strand. The strand is further processed into a specific product design according to the downstream use of the article. The sizing is a mixture of chemicals, i.e. coupling agent, film former and polymeric resin/emulsion. The sizing content is usually below 1% and in some specific case up to 2.5%. The sizing mixture basically consists of high molecular weight polymers not listed as dangerous substances (EINECS) nor in subsequent additions to the European List of New Commercial Chemical Substances (ELINCS).

For moulded products, based on CFGF a binder is applied in a secondary step to form the pre-form.

The binder (polymeric resin) content is usually below 3% of the product weight.

## Section 3 - Hazards Identification

With regard to its composition, this product is not classified as hazardous according to European Directive 67/548/EEC and 99/45/EC and their latest amendments.

This section identifies the potential hazards related to the article i.e. its shape, its dimensions and other Physical characteristics.

- Mechanical irritation (itching)
- Exposure to airborne dusts and fibres (inhalation)

For detailed explanation see section 11.

## Section 4 - First Aid Measures

### General information

Gently remove fibre from the respiratory tract rasp from the skin and mucosae.

### Inhalation

In case of upper respiratory tract irritation:

- Move to fresh air
- If symptoms persist, call a physician

### Skin contact

In case of irritation:

- Wash off immediately with soap and cold water.
- DO NOT use warm water because this will open up the pores of the skin, which will cause further penetration of the fibres.
- DO NOT rub or scratch affected areas.
- Remove contaminated clothing.
- If skin irritation persists, call a physician

## Eye contact

- Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes
- Have eye rinsing bottle available in case of potential hazard of eye contact, seek medical advice, if necessary.

## Section 5 - Fire Fighting Measures

**CFGF products are not flammable, are incombustible and do not support combustion.**

Only the sizing and/or binder are combustible and could release small quantities of hazardous gas in case of major and prolonged heat or fire.

### Suitable extinguishing media

Water, dry chemical, foam and carbon dioxide (CO<sub>2</sub>)

### Protective Equipment and Precautions for Fire-fighters

Wear self-contained breathing apparatus (SCBA) and full firefighting protective gear

## Section 6 - Accidental Release Measures

### Personal precautions

Avoid contact with the skin and the eyes

### Environmental precautions

Prevent further leakage or spillage if safe to do so.

### Methods for Clean-up

- Pick up and transfer to properly labelled containers
- Avoid dry sweeping
- Shovel the major part of spilled material into a container
- Use an industrial vacuum cleaner with a high efficiency filter to clean up dust and residual spilled material
- After vacuum cleaning, flush away with water

## Section 7 - Handling & Storage

### Handling

- Wear appropriate personal protective equipment in case of direct contact with the product. (See section 8)
- Prevent and/or minimize dust formation

### Storage

- Store the product in a dry area in its packaging until use to minimize potential dust generation.
- The temperature should not exceed 30°C, The relative air humidity should be between 50 and 75%.

### Storage class

- Non classified

## Section 8 - Exposure Control/ Personal Protection

### General Information:

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.

### Exposure limit(s)

NOTE: The user of CFGF products has to comply with the national regulation in term of health worker protection. You will find below some occupational exposure limit values for some of European countries.

	Respirable Dust	Total Dust	Respirable Fiber
ACGIH	3 mg/m <sup>3</sup>	10 mg/ m <sup>3</sup>	1 fiber/ml
AUSTRIA	6mg/m <sup>3</sup> (fine)		0.5 fiber/ml
DENMARK	5 mg/m <sup>3</sup>	10 mg/ m <sup>3</sup>	1 fiber/ml
FINLAND		10 mg/ m <sup>3</sup>	1 fiber/ml
FRANCE		10 mg/ m <sup>3</sup>	1 fiber/ml
GERMANY	3 mg/m <sup>3</sup>	4 mg/ m <sup>3</sup>	0.25 fiber/ml
IRELAND	5 mg/m <sup>3</sup>		2 fiber/ml
ITALY	3 mg/m <sup>3</sup>	10 mg/ m <sup>3</sup>	1 fiber/ml
NETHERLANDS	2 mg/m <sup>3</sup>	10 mg/ m <sup>3</sup>	1 fiber/ml
NORWAY	5mg/m <sup>3</sup>	10 mg/ m <sup>3</sup>	1 fiber/ml
PORTGUAL		4 mg/ m <sup>3</sup>	1 fiber/ml
SPAIN	3 mg/m <sup>3</sup>	10 mg/ m <sup>3</sup>	1 fiber/ml
UNITED KINGDOM	5 mg/m <sup>3</sup>	10 mg/ m <sup>3</sup>	2 fiber/ml

## Occupational exposure controls

### Engineering Controls

Provide local exhaust and/or general ventilation system to maintain low exposure levels. Dust collection systems must be used in transferring operations, cutting or machining or other dust generating processes.

Vacuum or wet clean-up methods should be used.

### Personal protective equipment

#### Respiratory protection

Respiratory protection: during occasional operations releasing high quantities of dust, wear minimum FP1 or preferably FP2 EEC approved dust masks. According to American National Institute For Occupational Safety And Health (NIOSH) and Mine Safety And Health Administration (MSHA) Directives, type 3M 8710 or 3M 9900 respiratory protection can for example be used.

#### Eye/face Protection

Safety glasses with side-shields

#### Skin protection

- Protective gloves
- Long sleeved shirt and long pants

#### General Hygiene Considerations

- Wash hands before breaks and immediately after handling the product
- Avoid contact with skin, eyes and clothing
- Avoid getting dust into boots and gloves through wrist bands and pant tucks
- Remove and wash contaminated clothing before re-use

## Section 9 - Physical & Chemical Properties

Appearance	: White or off-white
Physical State	: Solid
Softening point	: >800°C
Melting point	: Non applicable
Decomposition temperature	: Size and mat binders start to decompose at 200°C
Density (molten glass)	: 2.6-2.7 (water = 1)
Water solubility	: Insoluble

Newark.com/multicomp-pro  
Farnell.com/multicomp-pro  
Element14.com/multicomp-pro

## Section 10 - Stability & Reactivity

### Chemical Stability

Stable in normal use and storage conditions, and in normally foreseeable usage conditions.

### Hazardous decomposition products

In continuous combustion conditions, in addition to water vapour and CO<sub>2</sub>, small quantities of CO and NOX may be released by the combustion of the size. See Section 5 of SDS for hazardous decomposition products during a fire

### Possibility of Hazardous Reactions

Glass roving is stable and never generates hazardous chemical reactions.

## Section 11 - Toxicological Information

### Toxicological test

Acute toxicity : Not relevant

### Local effects:

Dusts and fibres may cause mechanical irritation to eyes and skin. The irritation disappears when the exposure ceases. Mechanical irritation is not considered as a health hazard in the meaning of European directive 67/548/EC on hazardous substances. Continuous filament glass fibres do not require a classification as an irritant (Xi) under the European directive 97/69/EC.

Inhalation may cause coughing, nose and throat irritation and sneezing. High exposures may cause difficult breathing, congestion and chest tightness.

### Long term health effects

Continuous filament glass fibres are not respirable according to the World Health Organization (WHO) definition.

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. Fibres with diameters greater than 3 microns, which is the case for continuous filament glass fibre, do not reach the lower respiratory tract and, therefore have no possibility of causing serious pulmonary disease.

Section 2.3 of TRGS 905, edition of June 1997 is not applicable. The general principles of industrial hygiene for fibres with a diameter of > 3µm listed in TRGS 521 – fibre dusts – as amended in November 1997 under no. 5, which can develop or be released during processing, have to be adhered to.

Continuous filament glass fibres do not possess cleavage planes which would allow them to split length-wise into fibres with smaller diameters, rather they break across the fibre, resulting in fibres which are of the same diameter as the original fibre with a shorter length and a small amount of dust.

Microscopic examination of dust from highly chopped and pulverised glass demonstrated the presence of small amounts of respirable dust particles. Among these respirable particles, some were fibre-like in terms of l/d ratio (so-called "shards"). It can be clearly observed however that they are not regular shaped fibres but irregular shaped particles with fibre-like dimensions. To the best of our knowledge, the exposure levels of these fibre-like dust particles measured at our manufacturing plants are of the order of magnitude between 50 to 1000 below existing applicable limits.

Continuous filament glass fibres are not carcinogenic. (See section 15)

## Section 12 - Ecological Information

No specific data are available for this product. This material is not expected to cause harm to animals, plants or fish.

## Section 13 - Disposal Considerations

Continuous filament glass fibre waste is a non-hazardous waste.

### GENERAL INFORMATION

When handling waste, consideration should be made to the safety precautions applying to handling of the product.

### DISPOSAL METHODS

Dispose of waste and residues in accordance with local authority requirements. Absorb in earth or dry sand, dispose in licensed hazardous waste.

## Section 14 - Transport Information

International transport provisions: Glass fibre (continuous fibre) products are **no dangerous substances** according to the Dangerous Substance Ordinance (GGVS) as amended on 18 July 1995. Therefore, no specific measures for the transportation and labelling for land, inland waterway and air transportation are necessary. It is recommended to transport and store the product in a dry condition and within its original packaging.

**IMDG/IM – RID – ADR – ICAO – IATA – DOT - TDG - MEX** not regulated

## Section 15 - Regulatory Information

This product is not hazardous according to European Directive 99/45/EC, 67/548/EEC and their latest amendment  
Information on non-carcinogenicity

According to E.U. Directives the continuous filament glass fibres in these products are not classified as carcinogenic.

Continuous filament glass fibres are not within the scope of Directive 67/548/EEC per amendment 97/69/EC since they are not "fibres with random orientation."

The International Agency for Research on Cancer (IARC) in June, 1987, and in October, 2001, categorized continuous filament fibre glass as not classifiable with respect to human carcinogenicity (Group 3). The evidence from human, as well as, animal studies was evaluated by IARC as insufficient to classify continuous filament fibre glass as a confirmed, probable or even possible cancer causing material.

National chemicals inventories

Continuous filament glass fibre products are articles under the chemicals inventories listed below and consequently are exempt from listing on these inventories:

- The European Inventory of Existing Chemical Substances: EINECS/ELINCS,
- The US EPA Toxic Substance Control Act: TSCA,
- The Canadian Chemical Registration Regulations: NDSL/DSL,
- The Japanese Chemical Substances Control Law under METI: CSCL,
- The Australian Inventory of Chemical Substances: AICS,
- The Philippine Inventory of Chemicals and Chemical Substances: PICCS,
- The Korean Existing Chemicals List: (K) ECL and
- The Chinese List on New Chemical Substances

However, based on the rules enforced with regards to the marketing and use of chemicals in countries where our CFGF products are manufactured, each chemical ingredient of these finished products has to be listed on the National Chemicals Inventory of the specific country where produced.

## Section 16 - Other Information

N/A

<b>Part Number</b>
BU1019/1

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