Safety Data Sheet

According to Regulation EC No. 1907/2006

Glaskurzfasern 6,0 mm Polyester / Epoxid

Date of issue/Date of revision: 01.03.2021 en / GB - Version 1.0

1. Identification of the substance/preparation and of the company/undertaking

1.1 Identification of the substance or preparation: Glaskurzfasern 6,0 mm Polyester / Epoxid

1.2 Use of the substance/preparation: Plastics reinforcement, acoustical insulation, gypsum, muffler/exhaust filler, BMC, nonwovens.

1.3 Company/undertaking identification

Company name:	Gößl + Pfaff GmbH
Street:	Münchener Str. 13
Place:	85123 Karlskron/Brautlach
Telephone:	+49 (0) 8450 / 932-0
Fax.:	+49 (0) 8450 / 932-13
Contact person:	Management: Mr. Gößl, Mr. Pfaff
E-Mail:	info@goessl-pfaff.de
Internet:	www.goessl-pfaff.de
Responsible Department:	Management

1.4 Emergency telephone
Emergency CONTACT (24-Hour-Number): GBK GmbH +49 (0) 6132-84463

2. Hazards identification

With regard to its composition, this product is not classified as hazardous according to the 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 fibers (inhalation)

Please see Section 11 for a more detailed explanation.

3. Composition/information on ingredients

Chopped filament glass fiber (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 filament is determined by diameter of filament (from 6 µm and more). In the process of production of glass fiber surface and materials from it are treated with:

- Very low quantity of sizing's, slashes and finishes with are mixtures of different chemical substances in the amount from 0,1 to 2,0%.
- Impregnations which are mixtures of different chemical substances in the amount >2%. The basis of sizing's, slashes, finishes and impregnations – multi-component mixtures/chemical substances or polymers in emulsions, suspensions, or their aqueous solution not requiring the criteria in accordance to Directives 67/548/EEC5 and 1999/45/EC6. The gives substances or compounds protect the surface of the glass fiber from damage during its further processing and allow providing necessary technological and operating properties while processing of the goods by downstream users. Being included into the article composition they improve its consumer functions, but do not change its main functions.

Gößl + Pfaff use glass fiber that is already classified as an article. The process consists of cutting and opening of the fibers. Therefore, Gößl + Pfaff does not change the composition of the article.

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4. First aid measures

Eye contact
Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
Do not rub or scratch eyes.
If eye irritation persists, consult a specialist.

Skin contact
In case of irritation: Wash off immediately with soap and cold water.
DO NOT use warm water! This will open up the pores of the skin, which will cause further penetration of the fibers.
DO NOT rub or scratch affected areas.
Remove contaminated clothing.
Remove contaminated clothing.
If skin irritation persists, call a physician.

Inhalation
In case of upper respiratory tract irritation: Move to fresh air.
If symptoms persist, call a physician.

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
Carbon dioxide (CO2)

Protective Equipment and Precautions for Firefighters
Wear self-contained breathing apparatus (SCBA) and full firefighting protective gear.

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 labeled 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

7. Handling and 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
Keep product in its packaging until use to minimize potential dust generation.

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8. Exposure controls/personal protection

Chopped filament glass fibers are not respirable however, certain mechanical processes might generate airborne dust or fibre (See section 11). The occupational exposure limits below mentionned 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.

ACGIH	RESPIRABLE DUST 3mg / m3	TOTAL DUST 10mg / m3	RESPIRABLE FIBERS 1 fiber / ml
Austria	6 mg / m3 (fine)		0,5 fiber / ml
Denmark	5 mg / m3	10 mg / m3	1 fiber / ml
Finland		10 mg / m3	1 fiber / ml
France		10 mg / m3	1 fiber / ml
Germany	3 mg / m3	4 mg / m3	0,25 fiber / ml
Ireland	5 mg / m3		2 fibers / ml
Italy	3 mg / m3	10 mg / m3	1 fiber / ml
Netherlands	2 mg /m3	10 mg / m3	1 fiber / ml
Norway	5 mg /m3	10 mg / m3	1 fiber / ml
Portugal		4 mg / m3	1 fiber / ml
Spain	3 mg/m3	10 mg / m3	1 fiber / ml
	5 mg /m3	10 mg / m3	2 fibers / 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
In situation where concentrations are above exposure limits, appropriate dust masks must be worn (FFP1 or FFP2 depending on the actual airborne concentration)

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

9. Physical and 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 (water = 1)
Water solubility:	Insoluble

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10. Stability and reactivity

Chemical stability:
Stable under normal conditions

Hazardous decomposition products:
See Section 5 of SUIS for hazardous decomposition products during a fire.

Possibility of Hazardous Reactions:
Hazardous reaction does not occur.

11. Toxicological information

Acute toxicity:
Not relevant

Local effects
Dusts and fibers may cause mechanical irritation to eyes and skin. The irritation disappears when the exposure ceases. Mechanical irritation is not considered a health hazard in the meaning of European directive 67/548/EC on hazardous substances. Chopped filament glass fibers 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
Chopped filament glass fibers are not respirable according to the World Health Organization (WHO) definition. Respirable fibers have a diameter (d) smaller than 3µm, a length (l) larger than 5µm and an l/d-ratio larger than or equal to 3. Fibres with diameters greater than 3 microns, which is the case for Chopped filament glass fibre, do not reach the lower respiratory tract and, therefore have no possibility of causing serious pulmonary disease.

Chopped 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 fibrelike dust particles measured at our manufacturing plants are of the order of magnitude between 50-1000 below existing applicable limits.

Chopped filament glass fibers are not carcinogenic (see Section 15).

12. Ecological information

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

13. Disposal considerations

Chopped filament glass fiber waste is a non-hazardous waste.
European Waste Code number is 101103.

14. Transport information

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

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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 Chopped filament glass fibers in these products are not classified as carcinogenic. Chopped filament glass fibers 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 Chopped filament fiber 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 Chopped filament fiber glass as a confirmed, probable or even possible cancer causing material.

National chemicals inventories

Chopped filament glass fiber 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
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.

16. Other information

The information of this MSDS is based on the present state of our knowledge and meets the requirements of EU and national laws. The user's working conditions however, are beyond our knowledge and control. The product is not to be used for purposes other than those specified under Section 1 without a written permission. It remains the responsibility of the user to ensure that the necessary steps are taken to meet the laws and regulations. Handling of the product may only be done by people above 18 years of age, who are satisfactorily informed of how to do the work, the hazardous properties and necessary safety precautions. The information given in this MSDS is to describe the product only in terms of health and safety requirements and should not, therefore, be construed as guaranteeing specific properties.