

Fiberthree F3 PA-GF30 Pro in 200g/ 500g/ 1kg/ 2kg/ 10kg

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SECTION 1: Identification of the substance/mixture and of the company/undertaking

- 1.1
 Product identifier:

 Trade name:
 Fiberthree® F3 PA-GF30 Pro
- 1.2. Relevant identified uses of the substance or mixture and uses advised against Relevant identified uses:

Use of the substance/mixture: Thermoplastic performance filament for FFF 3D-printers

1.3 Details of the supplier of the safety data sheet:

Supplier:

Fiberthree GmbH Nieder-Ramstädter Str. 22 64283 Darmstadt

Telephone	+49 6151 734 75900
Fax:	+49 6151 734 75150

Email <u>kontakt@fiberthree.de;</u> <u>contact@fiberthree.com</u>

1.4 EMERGENCY TELEPHONE NUMBER:

Giftinformationszentrum Rheinland-Pfalz/Hessen Telefon: 06131/1 92 40 und 23 24 66

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture:

Classification (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 [CLP/GHS]

Not a hazardous substance or mixture



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2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3. Composition/information on ingredients

3.2 Mixtures

Description of the mixture:glass-fiber reinforced polyamideAdditional information:This mixture does not contain hazardous ingredients

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

Move out of dangerous area. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and seek medical advice. Give oxygen or artificial respiration if needed.

Following inhalation

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

Following skin contact

Do NOT use solvents or thinners. Wash off with soap and water. If symptoms persist, call a physician. Cool melted product on skin with plenty of water. Do not re-move solidified product. In case of burns apply cold water until pain subsides then seek medical advice.

Following eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Keep eye wide open while rinsing.

Following ingestion

If symptoms persist, call a physician.

according to Regulation (EC) No 1907/2006 (REACH)



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- **4.2 Most important symptoms and effects, both acute and delayed** No information available
- **4.3** Indication of any immediate medical attention and special treatment needed No information available

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Use water spray, alcohol-resistant foam, dry chemical or car-bon dioxide.

Unsuitable extinguishing media

High volume water jet media

5.2 Special hazards arising from the substance or mixture

During firefighting

Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard. Do not use a solid water stream as it may scatter and spread fire. Build-up of dangerous/toxic fumes possible in cases of fire/high temperature.

Hazardous combustion products

Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke). Nitrogen oxides (NOx) Ammonia Hydrogen cyanide (hydrocyanic acid) Sulphur compounds Metal oxides

5.3 Advice for fire-fighters

Exposure to decomposition products may be a hazard to health. In the event of fire, wear selfcontained breathing apparatus.

Additional information

according to Regulation (EC) No 1907/2006 (REACH)



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Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Use water spray to cool unopened containers. In the event of fire and/or explosion do not breathe fumes.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions:

Ensure adequate ventilation. Use personal protective equipment. Avoid dust formation. Avoid contact with skin, eyes and clothing. Avoid breathing dust. Avoid inhalation of vapour or mist. Contaminated surfaces will be extremely slippery. Treat recovered material as described in the section "Disposal considerations".

6.2 Environmental precautions

Should not be released into the environment. Do not allow contact with soil, surface or ground water. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air).

6.3 Methods and material for containment and cleaning up

Sweep up or vacuum up spillage and collect in suitable container for disposal. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). Avoid dust formation.

6.4 Reference to other sections

For personal protection see section 8., For disposal considerations see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe	:	Provide for appropriate exhaust ventilation and dust
<u>handling</u>		collection at machinery.
		The material can accumulate static charge and can
		therefore cause electrical ignition.
		Minimize dust generation and accumulation.
		Dust must be collected and disposed of carefully.
		Wear personal protective equipment.

according to Regulation (EC) No 1907/2006 (REACH)



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Version: 1.0 / EN Page 5 of 12	Print date: 01.03.2021 Revision date: Do not breathe vapours/dust.
Fire preventions :	Take measures to prevent the buildup of electrostatic charge. During processing, dust may form explosive mixture in air. Keep away from heat and sources of ignition. Normal measures for preventive fire protection.
<u>Advice on general</u> : <u>occupational</u> <u>hygiene</u>	 Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product. Regular cleaning of equipment, work area and clothing. Keep away from food and drink. General industrial hygiene practice. When using do not eat, drink or smoke.

Conditions for safe storage, including any incompatibilities 7.2

Technical measures and storage conditions

Requirements for storage areas and containers	:	Keep containers tightly closed in a dry, cool and well-ventilated place.
Further information on storage conditions	:	Keep away from heat and sources of ignition. Keep away from direct sunlight. Avoid moisture.
Advice on common storage	:	Keep away from food, drink and animal feedingstuffs.
Storage class (TRGS 510)	:	11, Combustible Solids

Specific end uses 7.3

<u>Specific end uses</u> For further information refer to the product technical data sheet.

according to Regulation (EC) No 1907/2006 (REACH)



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8.1 Control parameters

Contains no substances with occupational exposure limits.

8.2 Exposure controls

Appropriate engineering controls

Provide sufficient air exchange and/or exhaust in work rooms. Handle product only in closed system or provide appropriate exhaust ventilation at machinery. Apply measures to prevent dust explosions.

Personal protective equipment

Eye protection Safety glasses with side-shields

Skin protection

Hand protection Suitable gloves type

Remark

The suitability for a specific workplace should be discussed with the producers of the protective gloves.

The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other.

As the product is a mixture of several substances, the durability of the glove materials cannot be calculated in advance and must be tested before use.

The exact break through time can be obtained from the protective glove producer and this must be observed.

The breakthrough time depends amongst other things on the material, the thickness and the type of glove and therefore must be measured for each case.

Request information on glove permeation properties from the glove supplier.

Choose gloves to protect hands against chemicals depending on the concentration and quantity of the hazardous sub-stance and specific to place of work.

Body protection

Safety shoes Wear suitable protective clothing. Follow the skin protection plan.

Respiratory protection

Effective dust mask

In the case of vapour formation use a respirator with an approved filter.



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Version: 1.0 / EN Page 7 of 12 SECTION 9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	: filament
Colour	: black
Odour	: characteristic
Odour threshold	: not determined

рН	not determined
Melting point/range	230 °C
Boiling point/boiling range	not determined
Flash point	not determined
Flammability (solid, gas)	No data available
Upper explosion limit	No data available
Lower explosion limit	The product is not explosive at itself, but it may
	form explosive dust
Vapour pressure	not determined
Density	not determined
Relative density	No data available
Solubility(ies)	not determined
Partition coefficient: n- octanol/water	No data available
Ignition temperature	not determined
Decomposition temperature	> 300°C
Viscosity	Not applicable
dynamic, kinetic	

9.2 Other information:

Conductivity

: Not determined

SECTION 10: Stability and reactivity

- **10.1 Reactivity** No decomposition if stored and applied as directed.
- **10.2** Chemical stability The product is chemically stable.
- **10.3 Possibility of hazardous reactions** Finely dispersed particles form explosive mixtures with air. Burning produces noxious and toxic fumes.

10.4 Conditions to avoid:

Keep away from heat and sources of ignition. Avoid dust formation. Avoid moisture.

10.5 Incompatible materials:

according to Regulation (EC) No 1907/2006 (REACH)



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10.6 Hazardous decomposition products: Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke). Nitrogen oxides (NOx) Ammonia Hydrogen cyanide (hydrocyanic acid) Styrene Sulphur oxides Metal oxides

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product:

Acute oral toxicity		No data available
Acute inhalation toxicity	:	No data available
Acute dermal toxicity	:	No data available

Skin corrosion/irritation

Product: No known irritant effect. May cause irritation of respiratory tract.

Serious eye damage/eye irritation

Product:

Dust contact with the eyes can lead to mechanical irritation.

Respiratory or skin sensitisation

Product:

No known sensitising effect.

Germ cell mutagenicity

Product:

Genotoxicity in vitro	:	No data available
Genotoxicity in vivo	:	No data available

Carcinogenicity

according to Regulation (EC) No 1907/2006 (REACH)



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Reproductive toxicity

Product: Effects on fertility

: No data available

STOT - single exposure

Product: No data available

STOT - repeated exposure

Product: No data available

Aspiration toxicity

Product: No data available

SECTION 12: Ecological information

12.1 Toxicity:

	Product: Toxicity to fish Toxicity to daphnia and other aquatic invertebrates	:	No data available No data available
	Toxicity to algae Toxicity to microorganisms	:	No data available No data available
12.2	Persistence and degradability		
	Product: Biodegradability	:	No data available
12.3	Bioaccumulative potential		
	Product: Bioaccumulation	:	No data available

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	Product: Mobility :	No data available
12.5	Results of PBT and vPvB asses	sment
12.6	Product: Assessment : Other adverse effects	This substance/mixture contains no components considered to be either persistent, bio accumulative and toxic (PBT), or very persistent and very bio accumulative (vPvB) at levels of 0.1% or higher
12.0	Other adverse effects	

Product:

Should not be released into the environment.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product	:	Dispose of in accordance with the European Directives on waste and hazardous waste. In accordance with local and national regulations. According to the European Waste Catalogue, Waste Codes are not product specific, but application specific.
Contaminated packaging	:	Dispose of in accordance with local regulations. Dispose of as unused product.

SECTION 14: Transport information

14.1 UN number

Not regulated as a dangerous good

14.2 UN proper shipping name

Not regulated as a dangerous good

14.3 Transport hazard class(es)

Not regulated as a dangerous good

14.4 Packing group

Not regulated as a dangerous good



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14.5 Environmental hazards

Not regulated as a dangerous good

14.6 Special precautions for user

Not applicable

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

EU regulations

No ingredients according to RoHS 3 No ingredients according to REACH Art. 33 (SVHC) according to candidate list of June 2020

15.2 Chemical Safety Assessment

For this substance a chemical safety assessment is not required.

SECTION 16: Other information

Abbreviations and acronyms

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS - Australian Inventory of Chemical Substances; ASTM -American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL -Domestic Substances List (Cana-da); ECHA - European Chemicals Agency; EC-Number -European Community number; ECx - Concentration associated with x% response; ELx -Loading rate associated with x% response: EmS - Emergency Schedule: ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC -International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China: IMDG -International Maritime Dangerous Goods; IMO - International Mari-time Organization; ISHL -Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization;

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OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH -Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Sub-stances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

This safety datasheet only contains information relating to safety and does not replace any product information or product specification.