

Safety Data Sheet

According to Regulation (EC) No 1907/2006 (REACH), as amended by Commission Regulation (EU) 2020/878.

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

1.1 Product identifier

Product name: Fillamentum ASA CF10 Carbon

1.2 Relevant identified uses and uses advised against

Use of the substance or mixture: Filaments for 3D printing
Recommended restrictions on use: Designed for professional / industrial use.

1.3 Details of the supplier of the safety data sheet

Company: Fillamentum Manufacturing Czech s.r.o.
Address: nám. Míru 1217
768 24 Hulín
Czech Republic

ID: 29233275
Website: www.fillamentum.com
Telephone: +420 720 060 947
E-mail: helpdesk@fillamentum.com

1.4 Emergency telephone number

EU - wide emergency number: 112
See section 16.2 for the list of telephone number of National Helpdesks in the European Economic Area.

Section 2: Hazards identification

2.1 Classification of the substance or mixture

The substance or mixture is not hazardous according to Regulation (EC) No 1272/2008 and Directive 67/548/EEC.

2.2 Label elements

The substance or mixture is not hazardous according to Regulation (EC) No 1272/2008.

2.3 Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, Annex XIII.
This substance/mixture does not meet the vPvB criteria of REACH regulation, Annex XIII.
Contains no PBT and/or vPvB substances \geq 0.1% assessed in accordance with REACH Annex XIII.

Safety Data Sheet

Revision date: 13. 1. 2025 / 1

According to Regulation (EC) No 1907/2006 (REACH), as amended by Commission Regulation (EU) 2020/878.

Section 3: Composition/information on ingredients

3.2 Mixtures

Subject does not contain any hazardous ingredients at concentrations higher than the limit for which it is necessary to classify.

Chemical name	CAS No.	Content [weight %]	Classification [1272/2008/EC]
2-Propenoic acid, butyl ester, polymer with ethenylbenzene and 2-propenenitrile	26299-47-8	> 80	Not classified
Carbon fibres	7440-44-0	> 10	Not classified
Additives	-	< 5	Not classified

Section 4: First aid measures

4.1 Description of first aid measures

In case of skin contact:

AFTER CONTACT WITH HOT MELTED MATERIAL: Immediately cool with plenty of water. Do not remove the product crusts created on skin by violence or with solvents. Seek medical attention immediately for the treatment of potential skin burns.

AFTER CONTACT WITH MATERIAL AT ROOM TEMPERATURE: Carefully wash skin with plenty of water and soap.

In case of eye contact:

Rinse immediately with plenty of water for at least 15 minutes. Rinse also under the eyelids. Immediately call a physician.

In case of inhalation:

Move to fresh air and call a physician.

In case of ingestion:

Drink water as a precaution. Never give anything by mouth to an unconscious person. Do not induce vomiting without medical advice. Call a physician immediately.

Notes for physician:

Treat symptomatically.

4.2 Most important symptoms and effects, both acute and delayed

No information is available.

4.3 Indication of any immediate medical attention and special treatment needed

No information is available.

Section 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Foam, water, carbon dioxide (CO₂), dry chemical.

Unsuitable extinguishing media

High volume water jet

5.2 Special hazards arising from the substance or mixture

The inhalation of decomposition combustion products may result in health damage. Burning produces obnoxious and toxic fumes. Carbon monoxide (CO), carbon dioxide (CO₂), nitric oxides (NO_x), hydrocyanic acid (HCN), cyclic low molecular weight oligomers.

Safety Data Sheet

According to Regulation (EC) No 1907/2006 (REACH), as amended by Commission Regulation (EU) 2020/878.

5.3 Advice for firefighters

Special protective equipment for firefighters: As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

Under fire conditions:

Cool containers / tanks with water spray. Water mist may be used to cool closed containers. Fine dust dispersed in air may ignite. Risks of ignition followed by flame propagation or secondary explosions shall be prevented by avoiding accumulation of dust, e.g. on floors and ledges.

Section 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear protective equipment.
Avoid contact with skin and eyes.
Ensure adequate ventilation.
Keep away from ignition sources.

6.2 Environmental precautions

Prevent entry into waterways, sewers, basements or confined areas.
Inform respective authorities in case product reaches water, sewage system or soil.

6.3 Methods and material for containment and cleaning up

Take up mechanically (sweeping, shovelling) and collect in suitable container for disposal.

6.4 Reference to other sections

See Section 7 for information on safe handling, See Section 8 for information on personal protection equipment.

Section 7: Handling and storage

7.1 Precautions for safe handling

Good ventilation of the workplace required. Avoid contact with skin and eyes. Do not breathe vapours. Avoid prolonged or repeated contact with skin. Avoid contact with molten material.
Avoid dust formation. If small particles are generated during further processing, handling, or by other means, combustible dust concentrations may form in air.

7.2 Conditions for safe storage

Store in a dry, cool and well-ventilated place at a temperature of 5-35 °C. Protect from moisture, if the filament is not needed for a long time, put it back in the container with the included silica gel. The product may be hygroscopic. Protect from heat and direct sunlight. Keep away from sources of ignition.

7.3 Specific end use

Material for 3D printing.

Safety Data Sheet

According to Regulation (EC) No 1907/2006 (REACH), as amended by Commission Regulation (EU) 2020/878.

Section 8: Exposure controls/personal protection

8.1 Control parameters

Specific exposure limits have not been established or are not applicable unless listed below.

This material can generate Particulates Not Otherwise Classifiable (PNOC). The Occupational Safety and Health Administration (OSHA) PEL/TWA for PNOC is

- 15 mg/m³ for total dust,
- 5 mg/m³ for inhalable particulates,
- 3 mg/m³ for respirable particulates.

8.2 Exposure controls

Engineering measures: Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. Provide appropriate exhaust ventilation at places where dust is formed.

Hand protection: Use preventive gloves for skin protection.
Wash hands and other exposed areas with soap and water before leaving work.

Eye protection: Use personal protection equipment for eyes and face.

Respiratory protection: In case of insufficient ventilation, wear respiratory protection.
Do not work in an unventilated enclosed space or use a 3D printer enclosure.

Skin and body protection: Use the protective clothing.

Special hazard: Users should be protected from the possibility of contact with molten material during processing.

Section 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical Appearance:	Black filament
Appearance:	Black filament.
Colour:	Black.
Odor:	Slight odour.
Odour threshold:	Not determined.
pH:	Not applicable.
Kinematic viscosity:	Not determined.
Vapor pressure:	Not applicable.
Vapor density:	Not determined.
Evaporation rate:	Not determined.
Density	1.04 g/cm ³
Decomposition temperature:	> 300 °C
Boiling point / boiling range:	Not applicable.
Melting point / melting range:	> 180 °C

Safety Data Sheet

Revision date: 13. 1. 2025 / 1

According to Regulation (EC) No 1907/2006 (REACH), as amended by Commission Regulation (EU) 2020/878.

Autoignition temperature:	Not applicable.
Flash point:	Not determined
Flammability:	No information available.
Flammability Limits in Air:	No information available.
Water solubility.	Insoluble.
Solubility in other solvents:	Not determined.
Solubility:	Not determined.

9.2 Other information

Information with regards to physical hazard classes: Workers should be protected from the possibility of contact with molten material during fabrication.

Other safety characteristics: See section 8 for more information.

Section 10: Stability and reactivity

10.1 Reactivity

No reactivity is expected under conditions of normal use.

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

None expected under conditions of normal use.

10.4 Conditions to avoid

Avoid keeping resin molten for excessive periods of time at elevated temperatures. Prolonged exposure will cause polymer degradation.

10.5 Incompatible materials

None known.

10.6 Hazardous decomposition products

Burning produces harmful and toxic fumes. Carbon monoxide (CO), carbon dioxide (CO₂), Nitrogen oxides (NO_x), hydrocyanic acid (HCN), cyclic low molecular weight oligomers.

11. Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity (oral):	Based on available data, the classification criteria are not met.
Acute toxicity (dermal):	Based on available data, the classification criteria are not met.

Safety Data Sheet

Revision date: 13. 1. 2025 / 1

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Acute toxicity (inhalation):	Based on available data, the classification criteria are not met.
Skin corrosion/irritation:	Based on available data, the classification criteria are not met.
Serious eye damage/irritation:	Based on available data, the classification criteria are not met.
Respiratory or skin sensitisation:	Based on available data, the classification criteria are not met.
Germ cell mutagenicity:	Based on available data, the classification criteria are not met.
Carcinogenicity:	Based on available data, the classification criteria are not met.
Reproductive toxicity:	Based on available data, the classification criteria are not met.
STOT-single exposure:	Based on available data, the classification criteria are not met.
STOT-repeated exposure:	Based on available data, the classification criteria are not met.
Aspiration hazard:	Based on available data, the classification criteria are not met.

11.2 Information on other hazards

Local effects: Product dust may be irritating to eyes, skin and respiratory system. Resin particles, like other inert materials, are mechanically irritating to eyes. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

Specific effects: May cause skin irritation and/or dermatitis Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea Inhalation of dust may cause shortness of breath, tightness of the chest, a sore throat and cough Burning produces irritant fumes.

Endocrine disrupting properties: No data is available on the product itself.

12. Ecological information

12.1 Toxicity

No data available

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

Not expected to bioconcentrate or bioaccumulate.

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

The substance / mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) in concentration 0,1 % or higher

12.6 Endocrine disrupting properties

No data available

12.7 Other adverse effects

No data available

Safety Data Sheet

Revision date: 13. 1. 2025 / 1

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13. Disposal considerations

13.1 Waste treatment methods

In compliance with the requirements of Directive 2008/98/EC

Waste from residues / unused products:

In accordance with local and national regulations. Should not be released into the environment. Do not contaminate ponds, waterways or ditches with chemical or used container. Contact manufacturer.

Contaminated packaging:

Empty remaining contents. Do not re-use empty containers. Empty containers should be transported/delivered using a registered waste carrier to local recyclers for disposal.

14. Transport information

According to: ADR, RID, IMDG, IATA, ICAO.

14.1 UN number or ID number

No data available

14.2 UN proper shipping name

No data available

14.3 Transport hazard class(es)

No data available

14.4 Packing group

No data available

14.5 Environmental hazards

No data available

14.6 Special precautions for user

No data available

14.7 Maritime transport in bulk according to IMO instruments

No data available

Safety Data Sheet

Revision date: 13. 1. 2025 / 1

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15. Regulatory information

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

REACH / EU EINECL List: Components are in compliance with and/or are listed.

U.S. Regulations: Not listed

15.2 Chemical safety assessment

Not applicable.

16. Other information

16.1 Abbreviations and acronyms

ADR	Agreement Concerning the International Carriage of Dangerous Goods by Road
AICS	Australian Inventory of Chemical Substances
AINECL	European Inventory of Existing Commercial Chemical Substances
AMES	Ames Test (a biological assay to assess mutagenic potential of compounds)
CAS No.	Chemical Abstracts Service Number
CFR	Code of Federal Regulations
EC	European Community
EC50	Half Maximal Effective Concentration
EC Number	EINECS and ELINCS Number (see also EINECS and ELINCS)
EEC	European Economic Community
EINECS	European Inventory of Existing Commercial chemical Substances
ELINCS	European List of Notified Chemical Substances
ENCO	European Nomenclature of Cosmetic Ingredients
EU	European Union
IARD	International Agency for Research on Cancer
IATA	International Air Transport Association
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods Code
IMO	International Maritime Organization
MSHAP/NIOSH	Mine Safety and Health Administration / National Institute for Occupational Safety and Health
NTP	National Toxicology Program
OSHA	Occupational Safety and Health Administration
PBT	Persistent, Bioaccumulative, and Toxic
PEL/TWA	Permissible Exposure Limit / Time-Weighted Average
pH	Potential of Hydrogen (measure of acidity or alkalinity)
PICCS	Philippine Inventory of Chemicals and Chemical Substances
PNOC	Particulates Not Otherwise Classified
REACH	Registration, Evaluation, Authorisation, and Restriction of Chemicals
RID	Regulations Concerning the International Carriage of Dangerous Goods by Rail
STOT	Specific Target Organ Toxicity

Safety Data Sheet

Revision date: 13. 1. 2025 / 1

According to Regulation (EC) No 1907/2006 (REACH), as amended by Commission Regulation (EU) 2020/878.

TCSI	Taiwan Chemical Substance Inventory
TSCA	Toxic Substances Control Act
vPvB	Very Persistent and Very Bioaccumulative

16.2 Further information

AUSTRIA	+43 1 515 61 0	LATVIA	112 or +371 6704 2473
BELGIUM	32 070 245 245	LITHUANIA	+370 5 236 20 52 or +370 687 53378
BULGARIA	+359 2 9888 205	LUXEMBOURG	+352 70 245 245
CROATIA	+385 1 2348 342	MALTA	35 621 224 071
CZECH REPUBLIC	+420 224 919 293 or +420 224915 402	NETHERLANDS	+31 30 274 88 88
DENMARK	82 12 12 12	NORWAY	22 591 300
ESTONIA	112	POLAND	+48 58301 65 16 or +48 58 349 2831
FINLAND	+358 9 471 977	PORTUGAL	808 250 143
FRANCE	+33 1 45 4259 59	ROMANIA	+40 21 3183606
GERMANY	+49 30 19240	SLOVAKIA	+421 2 54 77 4166
GREECE	+30 210 77 93 777	SLOVENIA	+ 386 41 650 500
HUNGARY	+36 80 201 199	SPAIN	+34 91 562 04 20 or +34 91 768 98 00
ICELAND	+354 543 2222 or 112	SWEDEN	112 or +46 10 456 6700
IRELAND	+353 1 8379964 or +353 1 809 2166	UNITED KINGDOM	112 or 0845 4647
ITALY	+39 06 305 4343		

The product shouldn't be used for any other usage than intended. As the conditions of usage are not under control of the supplier, it is responsibility of the user to adapt the handling according to local laws and regulations.

The product should not be used for any application intended for any internal contact with human body fluid or body tissues, for a critical component in any medical device that supports or sustains human life and for specifically pregnant women or interfere with human reproduction.

The information is published in the best knowledge and information of the company. The final usage of the product must be assessed by the user. The company is not responsible for any risks caused by incorrect handling or processing.