



## PET CARBON FIBER

## SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Version	Revision Date:	SDS Number:	Date of last issue: 20.06.2019
1.2	05.05.2020	100000017853	Date of first issue: 03.01.2018
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### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier

Trade name : PET CARBON FIBER

Product code : FG171-CABK

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the Sub-  
stance/Mixture : High-performance material for injection molding and extrusion

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

Company : AzureFilm d.o.o.  
Orleška cesta 16  
6210 Sežana  
Slovenia

Telephone : + 386 (0)31 718 800  
Responsible/issuing person : info@azurefilm.com

#### 1.4 Emergency telephone number

Telephone : + 386 (0)31 718 800

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### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

##### Classification (REGULATION (EC) No 1272/2008)

Eye irritation, Category 2 H319: Causes serious eye irritation.

Respiratory sensitisation, Category 1 H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Skin sensitisation, Category 1 H317: May cause an allergic skin reaction.

#### 2.2 Label elements

##### Labelling (REGULATION (EC) No 1272/2008)

The dangerous properties of this product are distinctly reduced because the dangerous components are embedded into a polymeric matrix and cannot be released if used properly. Consequently labelling of this substance is not necessary (according to CLP regulation 1272/2008/EC, Annex I, part 1.3.4.).



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Hazard pictograms : 

Signal word : Danger

Hazard statements : H317 May cause an allergic skin reaction.  
H319 Causes serious eye irritation.  
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Precautionary statements : **Prevention:**  
P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.  
P280 Wear protective gloves/ eye protection/ face protection.  
P284 Wear respiratory protection.

**Response:**  
P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.  
P342 + P311 If experiencing respiratory symptoms: Call a POISON CENTER/doctor.

Hazardous components which must be listed on the label:  
benzene-1,2:4,5-tetracarboxylic dianhydride

### 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.

The hazards of this product are significantly reduced since the hazardous material/s is/are enclosed in a polymer matrix and when used as directed will not be released.

## SECTION 3: Composition/information on

### ingredients 3.2 Mixtures

#### Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
benzene-1,2:4,5-tetracarboxylic dianhydride	89-32-7 201-898-9 607-098-00-X 01-2120755188-46	Eye Dam. 1; H318 Resp. Sens. 1; H334 Skin Sens. 1; H317	>=1-<3



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For explanation of abbreviations see section 16.

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

- General advice : 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.
- If inhaled : Move to fresh air.  
Get medical attention.
- In case of skin contact : Do NOT use solvents or thinners.  
Wash off with soap and water.  
Get medical attention.
- In case of eye contact : Rinse thoroughly with plenty of water for at least 15 minutes  
and consult a physician.  
Keep eye wide open while rinsing.
- If swallowed : Get medical attention.

#### 4.2 Most important symptoms and effects, both acute and delayed

- Symptoms : No information available.

#### 4.3 Indication of any immediate medical attention and special treatment needed

- Treatment : 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 carbon dioxide.
- Unsuitable extinguishing media : High volume water jet

#### 5.2 Special hazards arising from the substance or mixture

- Specific hazards during fire-fighting : 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



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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).  
Sulphur compounds  
Aldehydes  
Acids

### 5.3 Advice for firefighters

Special protective equipment for firefighters : Exposure to decomposition products may be a hazard to health. In the event of fire, wear self-contained breathing apparatus.

Further information : 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.

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## 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

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

Methods for 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.



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### 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 handling : Provide for appropriate exhaust ventilation and dust 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.  
Do not breathe vapours/dust.
- Advice on protection against fire and explosion : Take measures to prevent the build up 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.
- Hygiene measures : 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.

### 7.2 Conditions for safe storage, including any incompatibilities

- 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

### 7.3 Specific end use(s)

- Specific use(s) : For further information, refer to the product technical data sheet.



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### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

##### Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health effects	Value
Carbon black	Workers	Inhalation		2 mg/m <sup>3</sup>
Remarks:	DNEL (long-term rep.)			

#### 8.2 Exposure controls

##### Engineering measures

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

Hand protection  
Material : Protective gloves

Remarks : 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 has to be tested before use.  
The exact break through time can be obtained from the protective glove producer and this has to be observed.  
The break through time depends amongst other things on the material, the thickness and the type of glove and therefore has to 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 substance and specific to place of work.

Skin and body protection : Safety shoes  
Wear suitable protective clothing.

Respiratory protection : Effective dust mask  
In the case of vapour formation use a respirator with an approved filter.

Protective measures : Follow the skin protection plan.



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### SECTION 9: Physical and chemical properties

#### 9.1 Information on basic physical and chemical properties

Appearance	:	granular
Colour	:	black
Odour	:	characteristic
Odour Threshold	:	not determined
pH	:	not determined
Melting point/range	:	not determined
Boiling point/boiling range	:	not determined
Flash point	:	not determined
Flammability (solid, gas)	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	The product is not explosive at itself, but it may form explosive dust
Vapour pressure	:	not determined
Relative density	:	No data available
Density	:	1,4 g/cm <sup>3</sup>
Solubility(ies)		
Water solubility	:	not determined
Solubility in other solvents	:	not determined
Partition coefficient: n-octanol/water	:	No data available
Ignition temperature	:	not determined
Decomposition temperature	:	No data available
Viscosity		
Viscosity, dynamic	:	Not applicable
Viscosity, kinematic	:	Not applicable



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### 9.2 Other information

Conductivity : not determined

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## 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

Hazardous reactions : Finely dispersed particles form explosive mixtures with air.  
Burning produces noxious and toxic fumes.

### 10.4 Conditions to avoid

Conditions to avoid : Keep away from heat and sources of ignition.  
Avoid dust formation.  
Avoid moisture.

### 10.5 Incompatible materials

Materials to avoid : No data available

### 10.6 Hazardous decomposition products

Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).  
Sulphur compounds  
Aldehydes  
Organic acids

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## 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:

May cause skin irritation.

May cause irritation of respiratory tract.

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### 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

**Product:**

This information is not available.

### 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



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### SECTION 12: Ecological information

#### 12.1 Toxicity

**Product:**

Toxicity to fish : No data available

Toxicity to daphnia and other aquatic invertebrates : No data available

Toxicity to algae : No data available

Toxicity to microorganisms : No data available

#### 12.2 Persistence and degradability

**Product:**

Biodegradability : No data available

#### 12.3 Bioaccumulative potential

**Product:**

Bioaccumulation : No data available

#### 12.4 Mobility in soil

**Product:**

Mobility : No data available

#### 12.5 Results of PBT and vPvB assessment

**Product:**

Assessment : 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..

#### 12.6 Other adverse effects

**Product:**

Additional ecological information : Should not be released into the environment.

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### SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods



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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.

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### 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

#### 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 and the IBC Code

Not applicable for product as supplied.

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### SECTION 15: Regulatory information

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

##### Other regulations:

The product does not need to be labelled in accordance with EC directives or respective national laws.

#### 15.2 Chemical safety assessment

A Chemical Safety Assessment is not required for this substance.

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### SECTION 16: Other information

#### Full text of H-Statements

H317	:	May cause an allergic skin reaction.
H318	:	Causes serious eye damage.
H334	:	May cause allergy or asthma symptoms or breathing difficul-



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ties if inhaled.

### Full text of other abbreviations

Eye Dam.	: Serious eye damage
Resp. Sens.	: Respiratory sensitisation
Skin Sens.	: Skin sensitisation

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 (Canada); 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 Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organization for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; 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 Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

### Further information

Contact Point : AzureFilm d.o.o

### Classification of the mixture:

Eye Irrit. 2	H319
Resp. Sens. 1	H334
Skin Sens. 1	H317

### Classification procedure:

Calculation method
Calculation method
Calculation method



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