

Safety Data Sheet

According to Regulation (EC) No 1907/2006, Annex II,

Amended by COMMISSION REGULATION (EU) 2020/878,

Amended by COMMISSION DELEGATED REGULATION (EU) 2023/707,

According to REGULATION (EC) No 1272/2008

Fiberon™PPS-CF10

Version 1.1

Issue date: 27-11-2023

Revision date: 27-11-2023

SDS Record Number: CSSS-TCO-010-156989

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

1.1 Product identifier:

Identification on the label/Trade name: Fiberon™PPS-CF10
 Additional identification: Nanoform is NOT covered by this SDS.
 UFI: N/A
 Identification of the product: See section 3
 Index Number: See section 3
 REACH registration No.: See section 3

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

1.2.1 Identified uses:

3D printing materials.

1.2.2 Uses advised against:

Not available.

1.3 Details of the supplier of the safety data sheet:

Supplier(Only representative): -
 Supplier(Manufacturer): JF Polymers(Suzhou) Co., Ltd.
 Address: Building C and Building G, No. 15, Dianchang Road, Bixi Street,
 Changshu City, Suzhou City, Jiangsu Province
 Contact person(E-mail): zhenxing.miao@polymaker.com
 Telephone: +86-512-52058005
 Fax: +86-512-52096516

1.4 Emergency telephone Number:

+86-512-52058005 Only available during office hours (9:00a.m.-17:30p.m.)

Available outside office hours? YES NO

Section 2 Hazards identification

2.1 Classification of the substance or mixture:

2.1.1 Classification of the mixture:

The mixture is classified as following according to REGULATION (EC) No 1272/2008:

REGULATION (EC) No 1272/2008	
Hazard classes/Hazard categories	Hazard statement
Not applicable.	Not applicable.

2.2 Label elements:

Hazard pictogram(s):

Signal word:

Hazard statement(s):

Precautionary statement(s):

P264: Wash hands thoroughly after handling.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313: If eye irritation persists: Get medical advice/attention.

Supplemental Hazard information (EU)

Not applicable.

2.3 Other hazards:

The mixture does not contain PBT/vPvB substance.

The mixture does not contain endocrine disruptor.

Section 3 Composition/information on ingredients

Substance/Mixture:

Mixture

Ingredient(s):

Chemical Name	Registration No.	CAS No.	EC No.	Concentration	Classification	Specific Concentration limits, M-Factors, Acute Toxicity Estimates (ATE)
Poly(thio-1,4-phenylene)	N/A	25212-74-2	N/A	>80%	Not Classified	N/A
Chopped Carbon Fiber	N/A	7440-44-0	231-153-3	5~15%	H335	N/A
Vinyl polymer functionalized with Maleic anhydride	N/A	85244-45-7	N/A	5~10%	Not available	N/A
Phosphorous trichloride, reaction products with 1,1'-biphenyl and 2,4-bis(1,1-dimethylethyl)phenol	N/A	119345-01-6	432-130-2	< 0.5%	Not Classified	N/A

7.5% of the mixture consists of component (s) of unknown toxicity.

7.5% of components with unknown hazards to the aquatic environment.

Section 4 First aid measures

4.1 Description of first aid measures:

In all cases of doubt, or when symptoms persist, seek medical attention.

4.1.1 In case of inhalation:

If breathed in, remove victim to fresh air and keep at rest in a position comfortable for breathing. If you feel unwell, seek medical attention.

4.1.2 In case of skin contact:

Wash thoroughly with soap and water. Get medical attention if irritation persists.

4.1.3 In case of eyes contact:

Flush with running water for at least 15 minutes. If irritation persists get medical attention.

4.1.4 In case of ingestion:

Rinse mouth with water. If you feel unwell, seek medical attention.

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

Not Classified

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

If skin irritation or rash occurs, get medical advice/attention.

Section 5 Firefighting measures

5.1 Extinguishing media:

Suitable extinguishing media: Use extinguishing agents appropriate for surrounding fire.

Unsuitable extinguishing media: Not available.

5.2 Special hazards arising from the substance or mixture

No specific fire or explosion hazard. In case of fire, the following can be released: carbon monoxide, carbon dioxide.

5.3 Advice for firefighters:

In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment. Wear chemical resistant oversuit. Cool containers / tanks with water spray.

Section 6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:

6.1.1 For non-emergency personnel: Prevent further leakage or spillage if safe to do so. Keep away from Incompatible products.

6.1.2 For emergency responders: Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Ventilate the area. Wear suitable protective clothing.

6.2 Environmental precautions:

Should not be released into the environment. Do not flush into surface water or sanitary sewer system. If the product contaminates rivers and lakes or drains inform respective authorities.

6.3 Methods and material for containment and cleaning up:

Sweep up and shovel into suitable containers for disposal. Avoid dust formation. Keep in properly labelled containers. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections:

See Section 8 for information on personal protection equipment.
See Section 13 for information on disposal.

Section 7 Handling and storage

7.1 Precautions for safe handling:

7.1.1 Protective measures: Use only equipment and materials which are compatible with the product. Keep away from Incompatible products. To avoid thermal decomposition, do not overheat. Preferably transfer by pump or gravity.

7.1.2 Advice on general occupational hygiene: Do not eat, drink and smoke in work areas. Wash hands after use. Remove contaminated clothing and protective equipment before entering eating areas.

7.2 Conditions for safe storage, including any incompatibilities:

Store in original container. Keep in a well-ventilated place. Keep in a dry place. Keep in properly labelled containers. Keep container closed. Avoid dust formation. Keep away from incompatible products.

7.3 Specific end use(s):

Not applicable.

Section 8 Exposure controls/personal protection

8.1 Control parameters:

8.1.1 Occupational exposure limits: Not available.

8.1.2 Additional exposure limits under the conditions of use:	Not available.
8.1.3 DNEL/DMEL and PNEC-Values:	Not available.
8.2 Exposure controls:	
8.2.1 Appropriate engineering controls:	Ensure adequate ventilation. Apply technical measures to comply with the occupational exposure limits.
8.2.2 Individual protection measures, such as personal protective equipment:	
Eye/face protection:	Safety glasses with side-shields conforming to NIOSH (US) or EN 166(EU).
Skin protection	
Hand protection:	Impervious gloves.
Body protection:	Wear suitable protective clothing to prevent skin exposure.
Respiratory protection:	Suitable respiratory protective device recommended.
Thermal hazards:	Wear suitable protective clothing to prevent heat.
8.2.3 Environmental exposure controls:	Avoid discharge into the environment. According to local regulations, Federal and official regulations.

Section 9 Physical and chemical properties

9.1 Information on basic physical and chemical properties:

Physical state:	Solid
Colour:	Black
Odour:	Odorless
Odour threshold:	Not available
pH:	Not available
Melting point/freezing point (°C):	Not available
Boiling point or initial boiling point and boiling range (°C):	Not available
Flash point (°C):	Not available
Evaporation rate:	Not available
Flammability limit - lower (%):	Not available
Flammability (gas, liquid, solid):	Not available
Ignition temperature (°C):	Not available
Lower and upper explosion limit:	Not available
Vapour pressure (20°C):	Not available
Relative vapour density:	Not available
Relative Density (g/cm³):	1.28
Bulk density (kg/m³):	Not available
Solubility in water (g/l, 20°C):	Insoluble
Solubility in other polar and non-polar solvents (g/l, 20°C):	Not available
Partition coefficient n-octanol/water (log Po/w, 20°C):	Not available
Auto-ignition temperature:	Not available
Decomposition temperature:	Not available
Kinematic viscosity (mm²/s):	Not available
Particle characteristics:	Not available
Explosive properties:	Not available

Oxidising properties: Not available

9.2. Other information:

Fat solubility(solvent-oil to be specified) Not available

etc:

Surface tension: Not available

Dissociation constant in water(pKa): Not available

Oxidation-reduction Potential: Not available

Section 10 Stability and Reactivity

10.1 Reactivity:	The substance is stable under normal storage and handling conditions.
10.2 Chemical stability:	Stable at room temperature in closed containers under normal storage and handling conditions.
10.3 Possibility of hazardous reactions:	No dangerous reactions known.
10.4 Conditions to avoid:	Incompatible materials.
10.5 Incompatible materials:	Strong oxidizing agents.
10.6 Hazardous decomposition products:	Carbon oxides.

Section 11 Toxicological information

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

Acute toxicity:

ATE_{mix}(oral): Not available

ATE_{mix}(inhalation): Not available

ATE_{mix}(Dermal): Not available

Phosphorous trichloride, reaction products with 1,1'-biphenyl and 2,4-bis(1,1-dimethylethyl)phenol (CAS: 119345-01-6)

LD50(Oral, Rat): > 2000 mg/kg bw

LC50(Inhalation, Rat): Not available

LD50(Dermal, Rat): > 2000 mg/kg bw

Skin corrosion/irritation: Not classified

Serious eye damage/irritation: Not classified

Respiratory or skin sensitization: Not classified

Germ cell mutagenicity: Not classified

Carcinogenicity: Not classified

Reproductive toxicity: Not classified

STOT- single exposure: Not classified

STOT-repeated exposure: Not classified

Aspiration hazard: Not classified

11.2 Information on other hazards

Endocrine disrupting properties The mixture does not contain endocrine disruptor.

Other information Not applicable

Section 12 Ecological information

12.1 Toxicity:

Phosphorous trichloride, reaction products with 1,1'-biphenyl and 2,4-bis(1,1-dimethylethyl)phenol (CAS: 119345-01-6)

Acute (short-term) toxicity:

LC50(96h, Fish): > 18.65 mg/L

EC50(48h, Crustacea): > 12.7 mg/L

Product name: Fiberon™PPS-CF10

Version #: 1.1

Issue date: 27-11-2023.

Revision date: 27-11-2023.

SDS EU

5 / 7

EC50(72h, Algae/aquatic plants):	> 78.6 mg/L
Chronic (long-term) toxicity:	
NOEC(Fish):	>= 1.2 mg/L, 14 d
NOEC(Crustacea):	Not available
NOEC (Algae/aquatic plants):	Not available
12.2 Persistence and degradability:	Not available.
12.3 Bioaccumulative potential:	Not available.
12.4 Mobility in soil:	Not available.
12.5 Results of PBT and vPvB assessment:	The mixture does not contain PBT / vPvB substance.
12.6 Endocrine disrupting properties:	The mixture does not contain endocrine disruptor.
12.7 Other adverse effects:	Not available.
12.8 Additional information	Not available.

Section 13 Disposal considerations

13.1 Waste treatment methods:	Dispose of in accordance with all applicable local and national regulations. Use recovery/recycling where feasible, otherwise incineration is the recommended method of disposal. Empty containers may contain hazardous residues. Do not cut, puncture or weld on or near to the container. Labels should not be removed from containers until they have been cleaned. Contaminated containers must not be treated as household waste. Containers should be cleaned by appropriate methods and then re-used or disposed of by landfill or incineration as appropriate. Do not incinerate closed containers.
--------------------------------------	--

Section 14 Transport Information

	Land transport (ADR/RID)	Inland waterways (ADN)	Sea transport (IMDG)	Air transport (ICAO/IATA)
14.1 UN number or ID number	Not regulated	Not regulated	Not regulated	Not regulated
14.2 UN proper shipping name	Not regulated	Not regulated	Not regulated	Not regulated
14.3 Transport hazard class(es)	Not regulated	Not regulated	Not regulated	Not regulated
14.4 Packing group	Not regulated	Not regulated	Not regulated	Not regulated
14.5 Environmental hazards	No	No	No	No
14.6 Special precautions for user	See section 2.2	See section 2.2	See section 2.2	See section 2.2
14.7 Maritime transport in bulk according to IMO instruments	Not regulated	Not regulated	Not regulated	Not regulated

Section 15 Regulatory information

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

Product name: Fiberon™PPS-CF10

Version #: 1.1

Issue date: 27-11-2023.

Revision date: 27-11-2023.

SDS EU

6 / 7

Relevant information regarding authorization:	Not applicable.
Relevant information regarding restriction:	Not applicable.
Other EU regulations:	Employment restrictions concerning young person must be observed. For use only by technically qualified individuals.
Other National regulations:	Not applicable
15.2 Chemical Safety Assessment	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>

Section 16 Other information

16.1 Indication of changes:

Version 1.0 Amended by (EU) 2020/878, (EU) 2023/707

16.2 Abbreviations and acronyms:

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
 RID: Regulations concerning the International Carriage of Dangerous Goods by Rail
 ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
 IMDG: Code international maritime dangerous goods code
 ICAO: International Civil Aviation Organization
 IATA: International Air Transport Association
 UFI: Unique Formula Identifier
 LC50: median lethal concentration
 EC50: The effective concentration of substance that causes 50% of the maximum response.
 NOEC: No Observed Effect Concentration
 DNEL: derived no-effect level
 PNEC: predicted no-effect concentration

16.3 Key literature references and sources for data

ECHA Registered substances data

16.4 Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]

Classification according to Regulation (EC) No. 1272/2008		Classification procedure
Not applicable.	Not applicable.	Calculation method

16.5 Relevant H-statements (number and full text):

H335: May cause respiratory irritation.

16.6 Training instructions:

Not applicable.

16.7 Further information:

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.

16.8 Notice to reader:

Employers should use this information only as a supplement to other information gathered by them, and should make independent judgment of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.

Author: Hangzhou C&K Testing Technic Co., Ltd

Website: www.cirs-ck.com

Tel: 0571-89900715

Email: test@cirs-group.com

