

Safety Data Sheet

According to Hazard Communication Standard (29 CFR 1910.1200)

Fiberon™PPS-CF10

Version 1.1

Issue date: 11/27/2023

Revision date: 11/27/2023

SDS record number: CSSS-TCO-010-156990

1. Identification

Product name	Fiberon™PPS-CF10
Synonyms	-
CAS #	See section 3
Product code	-
Product use	3D printing materials.
Manufacturer/Supplier	
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
Emergency telephone Number:	+86-512-52058005 Only available during office hours (9:00a.m.-17:30p.m.)

2. Hazard(s) identification

GHS classification

Physical hazards	Not classified
Health hazards	Not classified
Environmental hazards	Not classified

GHS label elements

Hazard Pictograms	Not classified
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Signal word	Not classified
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Hazard statement	Not classified
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Precautionary statement

Prevention	Wash hands thoroughly after handling. Wear eye protection/face protection.
Response	If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
Storage	Not applicable.
Disposal	Not applicable.
Other hazards	Not available.

3. Composition / information on ingredients

Components	CAS#	Percent
Poly(thio-1,4-phenylene)	25212-74-2	>80%
Chopped Carbon Fiber	7440-44-0	5 ~ 15%
Vinyl polymer functionalized with Maleic anhydride	85244-45-7	5 ~ 10%

Phosphorous trichloride, reaction products with
1,1'-biphenyl and
2,4-bis(1,1-dimethylethyl)phenol

119345-01-6

< 0.5%

4. First-aid Measures

First aid procedures

Eye contact

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

Skin contact

Wash thoroughly with soap and water. Get medical attention in the unlikely event that irritation persists.

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.

Ingestion

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

Notes to physician

Treat symptoms.

5. Fire-fighting measures

Flammable properties

Not flammable

Extinguishing media

Suitable extinguishing media

Use extinguishing agents appropriate for surrounding fire.

Unsuitable extinguishing media

Not available.

Firefighting equipment/instructions

Use water spray to cool unopened containers. Wear self contained breathing apparatus for firefighting if necessary.

Hazardous combustion products

Carbon oxides.

6. Accidental release measures

Personal precautions

Prevent further leakage or spillage if safe to do so. Ensure adequate ventilation. Keep away from open flames, hot surfaces and sources of ignition.

Environmental precautions

Should not be released into the environment. Do not flush into surface water or sanitary sewer system.

Methods for 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.

7. Handling and storage

Handling

Ensure good ventilation/exhaustion at the workplace. Wash thoroughly after handling.

Storage

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

8. Exposure controls / personal protection

Occupational exposure limits

This product has no PEL, TLV, or other recommended exposure limit.

Biological limit values

No biological exposure limits noted for the ingredient(s).

Appropriate engineering controls:

Use in a well-ventilated area.

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

Handle with gloves. Wear suitable protective clothing to prevent skin exposure.

Respiratory protection

Suitable respiratory protective device recommended.

General hygiene

Wash hands, forearms and face thoroughly after handling chemical products,

considerations

before eating, smoking and using the lavatory and at the end of the working period. Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing.

9. Physical and chemical properties

Appearance

Physical state	Solid
Form	Solid
Color	Black
Odor	Odorless
Odor threshold	Not available
pH	Not available
Vapor pressure	Not available
Melting point/Freezing point	Not available
initial boiling point and boiling range	Not available
Flash point	Not available
Evaporation rate	Not available
Flammability (solid, gas)	Not available
Explosion limits	Not available
Vapor density	Not available
Density	1.28
Solubility (water)	Insoluble
Partition coefficient	Not available
Auto-ignition temperature	Not available
Decomposition temperature	Not available
Specific gravity	Not available
Flammability limits in air, upper, %by volume	Not available
Flammability limits in air, lower, % by volume	Not available
VOC	Not available
Percent volatile	Not available
Other data	
Viscosity	Not available

10. Stability and reactivity

Chemical stability	Not available
Conditions to avoid	Incompatible materials.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	Carbon oxides.
Possibility of hazardous reactions	No dangerous reactions known.

11. Toxicological information

Toxicokinetics, metabolism and distribution:

Non-human toxicological data: Not available

Information on toxicological effects:

Acute toxicity:

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

LD50(Dermal, Rat):	> 2000 mg/kg bw
LC50(Inhalation, Rat):	Not available
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

12. Ecological information

Toxicity:

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

Acute toxicity		Time	Species	Method	Evaluation	Remarks
LC50	> 18.65 mg/L	96h	Fish	OECD 203	N/A	N/A
EC50	> 12.7 mg/L	48h	Daphnia	OECD 202	N/A	N/A
EC50	> 78.6 mg/L	72h	Algae	OECD 201	N/A	N/A

Persistence and degradability:	Not available.
Bioaccumulative potential:	Not available.
Mobility in soil:	Not available.
Results of PBT&vPvB assessment:	Not available.
Other adverse effects:	No known significant effects or critical hazards.

13. Disposal considerations

Disposal instructions	Dispose of contents/container in accordance with local/regional/national/international regulations.
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied.

14. Transport information

DOT

Basic shipping requirements:	
UN number	Not regulated
Proper shipping name	Not regulated
Hazard class	Not regulated
Packing group	Not regulated
Environmental hazards	No

IATA

UN number	Not regulated
UN proper shipping name	Not regulated
Transport hazard class(es)	Not regulated
Packing group	Not regulated
Environmental hazards	No

IMDG

UN number	Not regulated
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UN proper shipping name	Not regulated
Transport hazard class(es)	Not regulated
Packing group	Not regulated
Environmental hazards	No

15. Regulatory information

US federal regulations

Commercial status of components according to the United States Environmental Protection Agency's Toxic Substances Control Act (TSCA):

Name	CAS-No.	Listing	Commercial status	Flags
Poly(thio-1,4-phenylene)	25212-74-2	Not present	-	
Chopped Carbon Fiber	7440-44-0	Present	Active	
Vinyl polymer functionalized with Maleic anhydride	85244-45-7	Present	Active	PMN;XU
Phosphorous trichloride, reaction products with 1,1'-biphenyl and 2,4-bis(1,1-dimethylethyl)phenol	119345-01-6	Present	Active	

SARA 311/312 Hazardous chemical Yes

Classified hazard categories Health hazard

16. Other information, including date of preparation or last revision

HMIS® ratings
 Health: 1
 Flammability: 1
 Physical hazard: 0

NFPA ratings
 Health: 1
 Flammability: 1
 Physical hazard: 0

Disclaimer The information in the sheet was written based on the best knowledge and experience currently available.

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