

# SAFETY DATA SHEET

According to Model Work Health and Safety Regulations and National Model Code of Practice for the preparation of Safety Data Sheets for Hazardous Chemicals

Version 1.1

Issue date:27-11-2023

Revision date: 27-11-2023

SDS Record Number: CSSS-TCO-010-156991

## Section 1—Identification

<b>Product identifier</b>	Fiberon™PPS-CF10
<b>Other means of identification</b>	-
<b>Recommended use</b>	3D printing materials.
<b>Restrictions on use</b>	-
<b>Details of manufacturer or importer</b>	-
<b>Supplier(Manufacturer):</b>	JF Polymers(Suzhou) Co., Ltd.
<b>Address:</b>	Building C and Building G, No. 15, Dianchang Road, Bixi Street, Changshu City, Suzhou City, Jiangsu Province
<b>Contact person(E-mail):</b>	zhenxing.miao@polymaker.com
<b>Telephone:</b>	+86-512-52058005
<b>Fax:</b>	+86-512-52096516
<b>Emergency number:</b>	+86-512-52058005 Only available during office hours (9:00a.m.-17:30p.m.)
<b>Importer</b>	-
<b>Company name:</b>	-
<b>Address:</b>	-
<b>Contact person(E-mail):</b>	-
<b>Telephone:</b>	-
<b>Fax:</b>	-
<b>Emergency number:</b>	-

## Section 2—Hazard(s) identification

### GHS classification:

<b>Physical hazards:</b>	Not classified
<b>Health hazards:</b>	Not classified
<b>Environmental hazards:</b>	Not classified

### GHS label elements:

<b>Hazard Pictograms: :</b>	Not classified
-----------------------------	----------------

**Signal word:** Not classified

**Hazard statement:** Not classified

### Precautionary statement:

<b>Prevention:</b>	Wash hands thoroughly after handling. Wear eye protection/face protection.
<b>Response:</b>	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.
<b>Storage:</b>	Not applicable.
<b>Disposal:</b>	Not applicable.

Other hazards which do not result in classification: Not applicable.

### Section 3—Composition and information on ingredients

Components	CAS No.	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%

### Section 4—First aid measures

#### Description of necessary first aid measures

<b>Inhalation:</b>	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.
<b>Skin:</b>	Wash thoroughly with soap and water. Get medical attention in the unlikely event that irritation persists.
<b>Eye:</b>	Flush with running water for at least 15 minutes. If irritation persists get medical attention.
<b>Ingestion:</b>	Rinse mouth with water. If you feel unwell, seek medical attention.
<b>Symptoms caused by exposure</b>	Causes serious eye irritation.
<b>Medical Attention and Special Treatment</b>	Treat symptomatically.

### Section 5—Firefighting measures

<b>Suitable extinguishing media:</b>	Use extinguishing agents appropriate for surrounding fire.
<b>Extinguishing media which must not be used for safety reasons:</b>	Not available.
<b>Specific hazards arising from the chemical</b>	Hazardous combustion items may include: Carbon monoxide.
<b>Special protective equipment and precautions for firefighters</b>	In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment. Wear chemical resistant oversuit. Cool containers / tanks with water spray.
<b>HAZCHEM code</b>	None

### Section 6—Accidental release measures

<b>Personal precautions:</b>	Evacuate area. Ventilate area. Keep upwind. Spill should be handled by trained cleaning personnel properly equipped with respiratory and eye protection. Evacuate unnecessary personnel.
<b>Containment procedures:</b>	Avoid release to the environment. Prevent entry to sewers and public waters.
<b>Methods for cleaning up:</b>	Sweep up and shovel into suitable containers for disposal. Avoid dust formation. Keep in properly labelled containers. Keep in suitable, closed containers for disposal.

### Section 7—Handling and storage

<b>Precautions for safe handling:</b>	Do not handle until all safety precautions have been read and understood. Keep container closed when not in use. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.
---------------------------------------	--

**Conditions for safe storage, including any incompatibilities** Sweep up and shovel into suitable containers for disposal. Avoid dust formation. Keep in properly labelled containers. Keep in suitable, closed containers for disposal.

## Section 8—Exposure controls and personal protection

### Control parameters

#### Occupational exposure limits

This substance 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 process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

#### Personal protective equipment:

##### Eye and face protection

Safety glasses with side-shields conforming to NIOSH (US) or EN 166(EU).

##### Skin protection

Wear suitable protective clothing to prevent skin exposure.

##### Hand protection

Handle with gloves.

##### Respiratory protection

Suitable respiratory protective device recommended.

##### Thermal hazards

Wear suitable protective workwear to prevent from thermal hazards.

## Section 9—Physical and chemical properties

### Appearance:

**Physical state:** Solid

**Form:** Solid

**Color:** Black

**Odor:** Odorless

**Odour threshold:** Not available

**PH:** 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

**Upper/lower flammability or explosive limits:** Not available

**Vapor pressure:** Not available

**Vapor density:** Not available

**Density:** 1.28

**Bulk density:** Not available

**Solubility (H<sub>2</sub>O) :** Insoluble

**Partition coefficient (n-octanol/water) :** Not available

**Auto-ignition temperature:** Not available

**Decomposition temperature:** Not available

**Viscosity, dynamic:** Not available

**Organic solvents:** Not available

**Water:** Not available

**VOC (EC) :** Not available

**Solids contents:** Not available

**Molecular Formula:** Not available

**Molecular Weight:** Not available

**Particle size:** Not available

## Section 10—Stability and reactivity

<b>Reactivity:</b>	The substance is stable under normal storage and handling conditions.
<b>Chemical stability:</b>	Stable at room temperature in closed containers under normal storage and handling conditions.
<b>Possibility of hazardous reactions:</b>	No dangerous reactions known.
<b>Conditions to avoid:</b>	Incompatible materials. Extreme temperature and direct sunlight.
<b>Incompatible materials:</b>	Strong oxidizing agents.
<b>Hazardous decomposition products:</b>	Carbon oxides.

## Section 11—Toxicological information

### Toxicological data:

#### 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:** No data available.

**Serious eye damage/irritation:** No data available.

**Respiratory or skin sensitization:** No data available.

**Germ cell mutagenicity:** No data available.

**Carcinogenicity:** No data available.

**Reproductive toxicity:** No data available.

**STOT- single exposure:** No data available.

**STOT-repeated exposure:** No data available.

**Aspiration hazard:** No data available.

**Other information** This product has no known adverse effect on human health.

**Information on routes of exposure** No data available.

**Symptoms related to exposure** No data available.

**Numerical measures of toxicity** No data available.

**Immediate, delayed and chronic health effects from exposure** No data available.

## Section 12—Ecological information

### Ecotoxicity:

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.

**Other adverse effects:** No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

## Section 13—Disposal considerations

**Safe handling and disposal methods:** Collect and reclaim or dispose in sealed containers at licensed waste disposal site.

**Disposal of any contaminated packaging:** Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in

a safe manner (see: Disposal instructions).

Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

## Section 14—Transport information

### ADG

<b>UN number</b>	Not regulated
<b>Proper shipping name</b>	Not regulated
<b>Hazard class</b>	Not regulated
<b>Packing group</b>	Not regulated
<b>Special precautions</b>	Read safety instructions, SDS and emergency procedures before handling.

### IATA

<b>UN number</b>	Not regulated
<b>Proper shipping name</b>	Not regulated
<b>Hazard class</b>	Not regulated
<b>Packing group</b>	Not regulated
<b>Special precautions</b>	Read safety instructions, SDS and emergency procedures before handling.

### IMDG

<b>UN number</b>	Not regulated
<b>Proper shipping name</b>	Not regulated
<b>Hazard class</b>	Not regulated
<b>Packing group</b>	Not regulated
<b>Environmental hazards</b>	
<b>Marine pollutant</b>	No
<b>Special precautions</b>	Read safety instructions, SDS and emergency procedures before handling.

**Transport in bulk according to Annex II of** Not regulated

**MARPOL 73/78 and the IBC Code:**

## Section 15—Regulatory information

### Safety, health and environmental regulations

#### National regulations

##### Australian Inventory of Industrial Chemicals (AIIC)

Poly(thio-1,4-phenylene)(CAS#25212-74-2)	Not listed
Chopped Carbon Fiber(CAS#7440-44-0)	Listed
Vinyl polymer functionalized with Maleic anhydride(CAS#85244-45-7)	Not listed
Phosphorous trichloride, reaction products with 1,1'-biphenyl and 2,4-bis(1,1-dimethylethyl)phenol(CAS#11934-5-01-6)	Not listed

## Section 16—Any other relevant information

<b>Indication of changes:</b>	Version 1.0
<b>Key abbreviations or acronyms used:</b>	CAS: Chemical Abstracts Service LC50: Lethal Concentration 50 EC50: Concentration for 50% of maximal effect LD50: Lethal dose 50% MAC: maximum allowable concentration, (MAC) PC-TWA: permissible concentration-time weighted average PC-STEL: permissible concentration-short term exposure limit

**Further information:**

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

**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](http://www.cirs-ck.com)

Tel: 0571-89900715

Email: [test@cirs-group.com](mailto:test@cirs-group.com)

