

# 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

PPS100CF10

Version 2.0

Issue date: 12-12-2024

Revision date: 12-12-2024

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: PPS100CF10  
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: No.7-1 Xinggang East Road, Changshu City, Jiangsu Province, China.  
Contact person(E-mail): support@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	26125-40-6	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.

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

<b>Physical state:</b>	Solid
<b>Colour:</b>	Black
<b>Odour:</b>	Odorless
<b>Odour threshold:</b>	Not available
<b>pH:</b>	Not available
<b>Melting point/freezing point (°C):</b>	Not available
<b>Boiling point or initial boiling point and boiling range (°C):</b>	Not available
<b>Flash point (°C):</b>	Not available
<b>Evaporation rate:</b>	Not available
<b>Flammability limit - lower (%):</b>	Not available
<b>Flammability (gas, liquid, solid):</b>	Not available
<b>Ignition temperature (°C):</b>	Not available
<b>Lower and upper explosion limit:</b>	Not available
<b>Vapour pressure (20°C):</b>	Not available
<b>Relative vapour density:</b>	Not available
<b>Relative Density (g/cm<sup>3</sup>):</b>	1.28
<b>Bulk density (kg/m<sup>3</sup>):</b>	Not available
<b>Solubility in water (g/l, 20°C):</b>	Insoluble
<b>Solubility in other polar and non-polar solvents (g/l, 20°C):</b>	Not available
<b>Partition coefficient n-octanol/water (log Po/w, 20°C):</b>	Not available
<b>Auto-ignition temperature:</b>	Not available
<b>Decomposition temperature:</b>	Not available
<b>Kinematic viscosity (mm<sup>2</sup>/s):</b>	Not available
<b>Particle characteristics:</b>	Not available
<b>Explosive properties:</b>	Not available

Oxidising properties:	Not available
<b>9.2. Other information:</b>	
Fat solubility(solvent-oil to be specified) etc:	Not available
Surface tension:	Not available
Dissociation constant in water( pKa):	Not available
Oxidation-reduction Potential:	Not available

## Section 10 Stability and Reactivity

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

## Section 11 Toxicological information

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

<b>Acute toxicity:</b>	
<b>ATE<sub>mix</sub>(oral):</b>	Not available
<b>ATE<sub>mix</sub>(inhalation):</b>	Not available
<b>ATE<sub>mix</sub>(Dermal):</b>	Not available
<b>Phosphorous trichloride, reaction products with 1,1'-biphenyl and 2,4-bis(1,1-dimethylethyl)phenol (CAS: 119345-01-6)</b>	
<b>LD50(Oral, Rat):</b>	> 2000 mg/kg bw
<b>LC50(Inhalation, Rat):</b>	Not available
<b>LD50(Dermal, Rat):</b>	> 2000 mg/kg bw
<b>Skin corrosion/irritation:</b>	Not classified
<b>Serious eye damage/irritation:</b>	Not classified
<b>Respiratory or skin sensitization:</b>	Not classified
<b>Germ cell mutagenicity:</b>	Not classified
<b>Carcinogenicity:</b>	Not classified
<b>Reproductive toxicity:</b>	Not classified
<b>STOT- single exposure:</b>	Not classified
<b>STOT-repeated exposure:</b>	Not classified
<b>Aspiration hazard:</b>	Not classified

### 11.2 Information on other hazards

<b>Endocrine disrupting properties</b>	The mixture does not contain endocrine disruptor.
<b>Other information</b>	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:**

<b>LC50(96h, Fish):</b>	> 18.65 mg/L
<b>EC50(48h, Crustacea):</b>	> 12.7 mg/L

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

## Section 13 Disposal considerations

<b>13.1 Waste treatment methods:</b>	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.
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## Section 14 Transport Information

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

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**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  NO

## Section 16 Other information

### 16.1 Indication of changes:

Version 2.0 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.

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