

Version 1.0

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## 1. Product and Company Identification

<b>Material name</b>	PolyMax™ PC
<b>CAS #</b>	See section 3
<b>Product code</b>	-
<b>Product use</b>	3D Printing Filament
<b>Manufacturer/Supplier</b>	
<b>Supplier(Manufacturer):</b>	JF Polymers (Suzhou) Co., Ltd.
<b>Address:</b>	Building 6&7&11, No.2, Hai Cheng Road, Chang Shu Economic & Technological Development Zone, 215513, People's Republic of China
<b>Contact person(E-mail):</b>	zhenggang.cai@polymaker.com
<b>Telephone:</b>	+86-512-52058005
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<b>Emergency telephone Number:</b>	+86-512-52058005

## 2. Hazards identification

<b>GHS classification</b>	
<b>Physical hazards</b>	Not classified
<b>Health hazards</b>	Not classified
<b>Environmental hazards</b>	Hazardous to the aquatic environment, acute hazard      Category 1
<b>GHS label elements</b>	
<b>Hazard Pictograms</b>	
<b>Signal word</b>	Warning
<b>Hazard statement</b>	Very toxic to aquatic life
<b>Precautionary statement</b>	
<b>Prevention</b>	Avoid release to the environment.
<b>Response</b>	Collect spillage.
<b>Storage</b>	Not applicable.
<b>Disposal</b>	Dispose of contents/container in accordance with local regulation.
<b>Other hazards</b>	Not available.

## 3. Composition / Information on Ingredients

Components	CAS#	Percent
Polycarbonate	25037-45-0	≥ 80%

## 4. First Aid Measures

<b>First aid procedures</b>	
<b>Eye contact</b>	None expected to require first aid measures. Flush with running water for at least 15 minutes. If irritation persists get medical attention.
<b>Skin contact</b>	None expected to require first aid measures. Wash thoroughly with soap and water. Get medical attention in the unlikely event that irritation persists.
<b>Inhalation</b>	None expected to require first aid measures. If breathed in, remove victim to fresh air.

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

#### **Ingestion**

Immediate first aid is not likely to be required. A physician or poison control center can be contacted for advice.

#### **Notes to physician**

Treat symptoms.

### **5. Fire Fighting Measure**

#### **Flammable properties**

Not available.

#### **Extinguishing media**

##### **Suitable extinguishing media**

Use extinguishers suitable for surrounding fire.

##### **Unsuitable extinguishing media**

Not available.

#### **Firefighting equipment/instructions**

Wear self contained breathing apparatus for fire fighting if necessary.

#### **Hazardous combustion products**

Carbon oxides.

### **6. Accidental Release Measures**

#### **Personal precautions**

Use personal protective equipment. Ensure adequate ventilation. Evacuate personnel to safe areas.

#### **Environmental precautions**

Avoid disposing into drainage/sewer system or directly into the aquatic environment.

#### **Methods for cleaning up**

Sweep up and shovel into suitable containers. Clean up affected area.

### **7. Handling and Storage**

#### **Handling**

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

#### **Storage**

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

### **8. Exposure Controls / Personal Protection**

#### **Occupational exposure limits**

This mixture has no ingredients that have PEL, TLV, or other recommended exposure limit.

#### **Biological limit values**

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

#### **Appropriate engineering controls:**

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

#### **Individual protection measures, such as personal protective equipment:**

##### **Eye / face protection**

No special protection required.

##### **Skin protection**

No special protection required.

##### **Respiratory protection**

No special protection required.

##### **General hygiene considerations**

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.

### **9. Physical & Chemical Properties**

#### **Appearance**

##### **Physical state**

Solid

##### **Form**

Solid

##### **Color**

Various

#### **Odor**

Odorless

#### **Odor threshold**

Not available

#### **pH**

Not available

#### **Vapor pressure**

Not available

Vapor density	Not available
Boiling point	Not available
Melting point/Freezing point	220°C
Solubility (water)	Insoluble
Relative Density	1.20
Flash point	Not available
Partition coefficient	Not available
Flammability limits in air, upper, %by volume	Not available
Flammability limits in air, lower, % by volume	Not available
Auto-ignition temperature	Not available
VOC	Not available
Percent volatile	Not available
Molecular Formula	Not available
Molecular Weight	Not available
Other data	
Viscosity	Not available
Dissociation constant	Not available

## 10. Chemical Stability & Reactivity Information

Reactivity	The substance is stable under normal storage and handling conditions.
Chemical stability	Material is stable under normal conditions.
Conditions to avoid	Incompatible materials.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	Carbon oxides.
Possibility of hazardous reactions	No hazardous reactions known.

## 11. Toxicological Information

### Toxicokinetics, metabolism and distribution:

Non-human toxicological data: Not available

### Information on toxicological effects:

#### Acute toxicity:

LD50(Oral, Rat):	Not available
LD50(Dermal, Rabbit):	Not available
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:

Acute toxicity		Time	Species	Method	Evaluation	Remarks
LC50	N/A	96h	Fish	OECD 203	N/A	N/A

EC50	N/A	48h	Daphnia	OECD 202	N/A	N/A
EC50	N/A	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:** Not available.

### 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** 3077  
**Proper shipping name** Environmentally hazardous substance, solid, n.o.s.( Polycarbonate)  
**Hazard class** 9  
**Packing group** III  
**Environmental hazards** Yes

#### IATA

**UN number** 3077  
**UN proper shipping name** Environmentally hazardous substance, solid, n.o.s.( Polycarbonate)  
**Transport hazard class(es)** 9  
**Packing group** III  
**Environmental hazards** Yes

#### IMDG

**UN number** 3077  
**UN proper shipping name** Environmentally hazardous substance, solid, n.o.s.( Polycarbonate)  
**Transport hazard class(es)** 9  
**Packing group** III  
**Environmental hazards** Yes

### 15. Regulatory Information

#### US federal regulations

##### Toxic Substances Control Act (TSCA)

##### TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

##### CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

##### SARA 304 Emergency release notification

Not regulated.

##### OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not regulated.

#### Superfund Amendments and Reauthorization Act of 1986 (SARA)

##### SARA 302 Extremely hazardous substance

Not listed.

**SARA 311/312 Hazardous chemical** No

**SARA 313 (TRI reporting)**

Not regulated.

**Other federal regulations**

**Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List**

Not regulated.

**Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)**

Not regulated.

**Safe Drinking Water Act (SDWA)** Not regulated.

**16. Other Information**

**HMIS® ratings**

Health: 0  
Flammability: 1  
Physical hazard: 0

**NFPA ratings**

Health: 0  
Flammability: 1  
Instability: 0

**Disclaimer**

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

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