

# SAFETY DATA SHEET

According to Work Health and Safety Regulations 2011 and National Model Code of Practice for the preparation of Safety Data Sheets for Hazardous Chemicals

Version 1.0

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SDS Record Number: CSSS-TCO-010-143402

## 1. Identification of the material and supplier

**Material name:** PolyMax™ PETG-ESD  
**Other Names:** -  
**Recommended use:** 3D printing filaments.  
**Manufacturer:**  
**Supplier(Manufacturer):** JF Polymers (Suzhou) Co., Ltd.  
**Address:** Haicheng Industrial Park, Bldg 7, Changshu Economic Development Zone (CEDZ), Changshu, Jiangsu Province 215513, China  
**Contact person(E-mail):** zhenxing.miao@polymaker.com  
**Telephone:** +86-512-52058005  
**Fax:** +86-512-52096516  
**Emergency number:** +86-512-52058005

## 2. Hazards identification

### GHS classification:

**Physical hazards:** Not classified

**Health hazards:** Not classified

**Environmental hazards:** Not classified

### GHS label elements:

**Hazard Pictograms :** No hazard pictogram is used.

**Signal word:** No signal word is used.

**Hazard statement:** Not applicable.

### Precautionary statement:

**Prevention:** Not applicable.

**Response:** Not applicable.

**Storage:** Not applicable.

**Disposal:** Not applicable.

**Specific hazards:** Not applicable.

## 3. Composition/information on ingredients

Components	CAS No.	Percent
Multi-wall carbon nanotubes	308068-56-6	5-9%

## 4. First aid measures

**Inhalation:** None expected to require first aid measures. 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.

**Skin:** None expected to require first aid measures. Wash thoroughly with soap and water. Get medical attention in the unlikely event that irritation persists.

**Eye:** None expected to require first aid measures. Flush with running water for at least 15

<b>Ingestion:</b>	minutes. If irritation persists get medical attention.
	Immediate first aid is not likely to be required. A physician or poison control center can be contacted for advice.
<b>Notes to physician:</b>	Treat symptomatically.

## 5. Fire-fighting measures

<b>Suitable extinguishing media:</b>	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
<b>Extinguishing media which must not be used for safety reasons:</b>	Not available.
<b>Specific hazards arising from the chemical:</b>	No specific fire or explosion hazard.
<b>Fire Fighting:</b>	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
<b>HAZCHEM code</b>	None.

## 6. Accidental release measures

<b>Personal precautions:</b>	Avoid dust formation.
<b>Containment procedures:</b>	Do not let product enter drains.
<b>Methods for cleaning up:</b>	Sweep up and shovel. Keep in suitable, closed and properly labelled containers for disposal.

## 7. Handling and storage

<b>Precautions for safe handling:</b>	Provide appropriate exhaust ventilation at places where dust is formed.
<b>Storage:</b>	Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

## 8. Exposure controls/personal protection

<b>Control parameters</b>	Follow standard monitoring procedures
<b>Occupational exposure limits</b>	No exposure limits noted for ingredient(s).
<b>Biological limit values:</b>	No biological exposure limits noted for the ingredient(s).
<b>Exposure guidelines</b>	No exposure standards allocated.
<b>Appropriate engineering controls:</b>	Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.
<b>Personal protective equipment:</b>	
<b>Eye/face protection:</b>	No special protection required.
<b>Skin protection:</b>	No special protection required. Wear gloves if necessary.
<b>Respiratory protection:</b>	No special protection required.
<b>Hand protection:</b>	Wear protective gloves.

## 9. Physical and chemical properties

<b>Appearance:</b>	
<b>Physical state:</b>	Solid
<b>Form:</b>	Solid
<b>Color:</b>	Various
<b>Odor:</b>	Odorless
<b>Odour threshold:</b>	Not available
<b>PH:</b>	Not available
<b>Melting point/Freezing point:</b>	Not available

<b>Initial boiling point and boiling range:</b>	220°C
<b>Flash point:</b>	Not available
<b>Evaporation rate:</b>	Not available
<b>Flammability (solid, gas) :</b>	Not available
<b>Upper/lower flammability or explosive limits:</b>	Not available
<b>Vapor pressure:</b>	Not available
<b>Vapor density:</b>	Not available
<b>Density:</b>	1.20 g/cm <sup>3</sup>
<b>Solubility (H<sub>2</sub>O) :</b>	Insoluble
<b>Partition coefficient (n-octanol/water) :</b>	Not available
<b>Auto-ignition temperature:</b>	Not available
<b>Decomposition temperature:</b>	Not available
<b>Viscosity, dynamic:</b>	Not available
<b>Organic solvents:</b>	Not available
<b>Water:</b>	Not available
<b>VOC (EC) :</b>	Not available
<b>Solids contents:</b>	Not available
<b>Molecular Formula:</b>	Not available
<b>Molecular Weight:</b>	Not available

## 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.
<b>Incompatible materials:</b>	Strong oxidizing agents
<b>Hazardous decomposition products:</b>	Carbon oxides.

## 11. Toxicological information

<b>Toxicological data:</b>	
<b>Acute toxicity:</b>	
<b>LD50(Oral, Rat):</b>	Not available
<b>LD50(Dermal, Rabbit):</b>	Not available
<b>LC50(Inhalation, Rat):</b>	Not available
<b>Skin corrosion/Irritation:</b>	No data available.
<b>Serious eye damage/irritation:</b>	No data available.
<b>Respiratory or skin sensitization:</b>	No data available.
<b>Germ cell mutagenicity:</b>	No data available.
<b>Carcinogenicity:</b>	No data available.
<b>Reproductive toxicity:</b>	No data available.
<b>STOT- single exposure:</b>	No data available.
<b>STOT-repeated exposure:</b>	No data available.
<b>Aspiration hazard:</b>	No data available.
<b>Other information</b>	This product has no known adverse effect on human health.

## 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.

### 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.

## 13. Disposal considerations

### Disposal methods:

Collect and reclaim or dispose in sealed containers at licensed waste disposal site.

### Waste from residues/unused products:

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).

### Contaminated packaging:

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.

## 14. Transport information

### ADG

#### UN number

Not regulated

#### Proper shipping name

Not regulated

#### Hazard class

Not regulated

#### Packing group

Not regulated

#### Labels required

Not regulated

#### Special precautions

Read safety instructions, SDS and emergency procedures before handling.

### IATA

#### UN number

Not regulated

#### Proper shipping name

Not regulated

#### Hazard class

Not regulated

#### Packing group

Not regulated

#### Special precautions

Read safety instructions, SDS and emergency procedures before handling.

### IMDG

#### UN number

Not regulated

#### Proper shipping name

Not regulated

#### Hazard class

Not regulated

#### Packing group

Not regulated

#### Environmental hazards

##### Marine pollutant

No

#### Special precautions

Read safety instructions, SDS and emergency procedures before handling.

### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:

Not regulated

## 15. Regulatory information

### Safety, health and environmental regulations

#### National regulations

**Australia Medicines & Poisons Appendix A/B/D/E/F/G/H/I/J/K / Australia Medicines & Poisons Schedule 2/3/4/5/6/7/8/9**

Poisons schedule number not allocated.

**High Volume Industrial Chemicals (HVIC)**

Not listed.

**Importation of Ozone Depleting Substances (Customs(Prohibited imports) Regulations 1956, Schedule 10)**

Not listed.

**National Pollutant Inventory (NPI) substance reporting list**

Not listed.

**Prohibited Carcinogenic Substances**

Not regulated.

**Prohibited Substances (National Model Regulation for the control of Workplace Hazardous Substances, Schedule 2**

**NOHSC:1005 (1994) as amended)**

Not listed.

**Restricted Importation of Organochlorine Chemicals (Customs(Prohibited Imports) Regulations 1956, Schedule 9)**

Not listed.

**Restricted Carcinogenic Substances**

Not regulated.

#### International regulations

**Stockholm Convention**

Not applicable

**Rotterdam Convention**

Not applicable.

**Kyoto protocol**

Not applicable.

**Montreal Protocol**

Not applicable.

**Basel Convention**

Not applicable.

#### Inventory status:

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic /Non-Domestic Substances List (DSL) /(NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of Existing Commercial/ Notified Chemical Substances (EINECS) / (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	No

\*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

## 16. Other information

<b>Indication of changes:</b>	Version 1.0
<b>Training instructions:</b>	Not applicable.
<b>Further information:</b>	This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.
<b>Notice to reader:</b>	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)

