

# 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-010-131611

## 1. Identification of the material and supplier

**Material name:** PolyMide™ PA6-GF  
**Other Names:** -  
**Recommended use:** 3D Printing Filament  
**Manufacturer:**  
**Supplier(Manufacturer):** JF Polymers (Suzhou) Co., Ltd.  
**Address:** Building 6&7&11, No.2, Hai Cheng Road, Chang Shu Economic & Technological Development Zone, 215513, People's Republic of China  
**Contact person(E-mail):** zhenggang.cai@polymaker.com  
**Telephone:** 0086-512-52058005  
**Fax:** -  
**Emergency number:** 0086-512-52058005  
**Importer :**  
**Company name:**  
**Address:**  
**Contact person(E-mail):**  
**Telephone:**  
**Fax:**  
**Emergency number:**

## 2. Hazards identification

### GHS classification:

**Physical hazards:** Not classified  
**Health hazards:** Carcinogenicity Category 1B  
**Environmental hazards:** Not classified

### GHS label elements:

**Hazard Pictograms: :**



**Signal word:** Danger.  
**Hazard statement:** H350: May cause cancer

### Precautionary statement:

**Prevention:** Obtain special instructions before use.  
Do not handle until all safety precautions have been read and understood.  
Use personal protective equipment as required.

**Response:** If exposed or concerned: Get medical advice/attention.

**Storage:** Store locked up.

**Disposal:** Dispose of contents/container in accordance with local regulation.

**Specific hazards:** Not applicable.

### 3. Composition/information on ingredients

Components	CAS No.	Percent
Chopped Glass Fiber	65997-17-3	25%
Calcium chloride	10043-52-4	> 0.5%
Poly(ethylene-co-1-octene)	26221-73-8	> 1%

### 4. First aid measures

<b>Inhalation:</b>	Remove to fresh air. Get medical attention for any breathing difficulty.
<b>Skin:</b>	Take off contaminated clothing and shoes immediately. Wash off immediately with plenty of water. Keep warm and in a quiet place. Call a physician or poison control center immediately. Wash contaminated clothing before re-use.
<b>Eye:</b>	Immediately flush eyes with plenty of water, lifting upper and lower eyelids occasionally. Get medical attention if irritation persists.
<b>Ingestion:</b>	Call a physician or poison control centre immediately. Take victim immediately to hospital. If swallowed, rinse mouth with water (only if the person is conscious). Do NOT induce vomiting. Artificial respiration and/or oxygen may be necessary.
<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>	In case of fire, the following can be released: carbon monoxide, carbon dioxide.
<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>	Keep container closed in a cool, dry place.

### 8. Exposure controls/personal protection

#### Control parameters

#### Occupational exposure limits

#### UK. EH40 Workplace Exposure Limits (WELs)

Components	Type	Value	Form
Chopped Glass Fiber (CAS 65997-17-3)	TWA	1 fibers/ml	Fiber.
		5 mg/m3	Fiber.
Poly(ethylene-co-1-octene)	(CAS# TWA	4 mg/m3	Respirable dust.
26221-73-8)		10 mg/m3	Inhalable dust.

Germany. DFG MAK List (advisory OELs). Commission for the Investigation of Health Hazards of Chemical Compounds in the Work Area (DFG)

Components	Type	Value	Form
Poly(ethylene-co-1-octene) 26221-73-8	(CAS# TWA	4 mg/m <sup>3</sup> 0.3 mg/m <sup>3</sup>	Inhalable dust. Respirable dust.
<b>Biological limit values:</b>	No biological exposure limits noted for the ingredient(s).		
<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>	Safety goggles.		
<b>Skin protection:</b>	Wear protective clothing.		
<b>Respiratory protection:</b>	Use with adequate ventilation. In case of insufficient local exhaust ventilation, wear protective mask.		
<b>Hand protection:</b>	Wear protective gloves.		

## 9. Physical and chemical properties

**Appearance:**

<b>Physical state:</b>	Solid
<b>Form:</b>	Solid
<b>Color:</b>	Beige yellow
<b>Odor:</b>	Not available
<b>Odour threshold:</b>	Not available
<b>PH:</b>	Not available
<b>Melting point/Freezing point:</b>	215°C
<b>Initial boiling point and boiling range:</b>	Not available
<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
<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.

**Conditions to avoid:** Incompatible materials.  
**Incompatible materials:** Strong oxidizing agents  
**Hazardous decomposition products:** Carbon oxides.

## 11. Toxicological information

### Toxicological data:

#### Acute toxicity:

##### Calcium chloride (CAS: 10043-52-4)

**LD50(Oral, Rat):** 2301 mg/kg bw  
**LD50(Dermal, Rabbit):** > 5 000 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:** May cause cancer  
**Reproductive toxicity:** No data available.  
**STOT- single exposure:** No data available.  
**STOT-repeated exposure:** No data available.  
**Aspiration hazard:** No data available.  
**Other information** No data available.

## 12. Ecological information

### Toxicity:

#### Calcium chloride (CAS: 10043-52-4)

Acute toxicity		Time	Species	Method	Evaluation	Remarks
LC50	N/A	96h	Fish	OECD 203	N/A	N/A
LC50	2400 mg/L	48h	Daphnia	OECD 202	N/A	N/A
EC50	2900 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.

## 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

<b>Proper shipping name</b>	Not regulated
<b>Hazard class</b>	Not regulated
<b>Packing group</b>	Not regulated
<b>Labels required</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 MARPOL 73/78 and the IBC Code:** Not regulated

## 15. Regulatory information

### Safety, health and environmental regulations

#### National regulations

##### Australia Medicines & Poisons Appendix A

Chopped Glass Fiber (CAS 65997-17-3)

##### Australia Medicines & Poisons Appendix B/D/E/F/G/H/I/J/K / Australia Medicines & Poisons Schedule 2/3/4/5/6/7/8/9/10

Poisons schedule number not allocated.

##### Australia National Pollutant Inventory (NPI): Threshold quantity

Calcium Chloride (CAS 10043-52-4) 10 TONNES/YR Threshold Category: 1

##### High Volume Industrial Chemicals (HVIC)

Calcium Chloride (CAS 10043-52-4) 1000 - 9999 TONNES See the regulation for additional information.

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

Not listed.

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

Poly(ethylene-co-1-octene) 2000 TONNES/YR Threshold Category: 2B

(CAS 26221-73-8) 400 TONNES/YR Threshold Category: 2A

##### 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**

Chopped Glass Fiber (CAS 65997-17-3)

**Inventory status:**

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic /Non-Domestic Substances List (DSL) /(NDSL)	Yes
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
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)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

\*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.

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