

Safety Data Sheet
According to Regulation (EC) No 1907/2006, Annex II,
Amended by COMMISSION REGULATION (EU) 2015/830,
According to REGULATION (EC) No 1272/2008
PolyMide™ PA6-GF

Version 1.0

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SDS Record Number: CSSS-TCO-010-130894

Section 1 Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier:

Identification on the label/Trade name: PolyMide™ PA6-GF

Additional identification: Not available

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 Filament.

1.2.2 Uses advised against:

Not available.

1.3 Details of the supplier of the safety data sheet:

Supplier(Only representative):

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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):

zhenggang.cai@polymaker.com

Telephone:

+86-512-52058005

Fax:

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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

X

Section 2 Hazards Identification

2.1 Classification of the substance or mixture:

2.1.1 Classification:

The mixture is classified as following according to REGULATION (EC) No 1272/2008:

REGULATION (EC) No 1272/2008	
Hazard classes/Hazard categories	Hazard codes
Carc. 1B	H350

2.2 label elements:

Hazard Pictograms:



Signal Word(S):

Danger.

Hazard Statement:

H350: May cause cancer

Precautionary statement:

P201: Obtain special instructions before use.

P202: Do not handle until all safety precautions have been read and understood.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P308 + P313: If exposed or concerned: Get medical advice/attention.

P405: Store locked up.

P501: Dispose of contents/container in accordance with local regulation.

2.3 Other hazards:

Not available.

Section 3 Composition/information on ingredients

Substance/Mixture:

Mixture

Ingredient(s):

Chemical Name	Registration No.	CAS No.	EC No.	Concentration	Classification
Chopped Glass Fiber	N/A	65997-17-3	266-046-0	10-30%	H3501B

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 in the unlikely event that 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:

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed:

May cause cancer.

4.3 Indication of any immediate medical attention and special treatment needed:

Symptomatic treatment.

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

In case of fire, the following can be released: carbon monoxide, carbon dioxide.

5.3 Advice for firefighters:

Wear self-contained breathing apparatus for fire fighting if necessary.

Section 6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:

- 6.1.1 For non-emergency personnel:** Use personal protective equipment. Ensure adequate ventilation. Evacuate personnel to safe areas.
- 6.1.2 For emergency responders:** Avoid skin and eye contact. Refer to section 8 of SDS for personal protection details.

6.2 Environmental Precautions: Avoid disposing into drainage/sewer system or directly into the aquatic environment.

6.3 Methods and material for Containment and Cleaning up: Sweep up and shovel into suitable containers. Clean up affected area.

6.4 Reference to other sections: See Section 7 for information on safe handling.
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:** Ensure good ventilation/exhaustion at the workplace. Wash thoroughly after handling.
- 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 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.

7.3 Specific end use(s): Not available.

Section 8 Exposure Controls/Personal Protection

8.1 Control parameters:

- 8.1.1 Occupational exposure limits:** Not available.
- 8.1.2 Additional exposure limits under the conditions of use:** Not available.
- 8.1.3 DNEL/DMEL and PNEC-Values:** Not available.

8.2 Exposure controls:

- 8.2.1 Appropriate engineering controls:** Use adequate ventilation to keep airborne concentrations low.
- 8.2.2 Individual protection measures, such as personal protective equipment:**
- Eye/face protection:** Chemical safety goggles.
 - Hand protection:** Handle with gloves.
 - Body protection:** Wear normal working clothing.
 - Respiratory protection:** Wear approved mask/respirator.
 - Thermal hazards:** Wear suitable protective clothing to prevent heat.
- 8.2.3 Environmental exposure controls:** Avoid discharge into the environment. Dispose of rinse water in accordance with local and national regulations

Section 9 Physical and chemical properties

9.1 Information on basic physical and chemical properties:

- Appearance:** Solid
- Colour:** Beige
- Odour:** Odorless

Odour threshold:	Not available
pH:	Not available
Melting point/range (°C):	215°C
Boiling point/range (°C):	Not available
Flash point (°C):	Not available
Evaporation rate:	Not available
Flammability limit - lower (%):	Not available
Flammability (solid, gas):	Not available
Ignition temperature (°C):	Not available
Upper/lower explosive limits:	Not available
Vapour pressure (20°C):	Not available
Vapour density:	Not available
Relative Density:	1.20
Bulk density (kg/m³):	Not available
Water solubility (g/l):	Insoluble
n-Octanol/Water (log Po/w):	Not available
Auto-ignition temperature:	Not available
Decomposition temperature:	Not available
Viscosity, dynamic (mPa.s):	Not available
Explosive properties:	Not available
Oxidising properties:	Not available

9.2. Other information:

Fat solubility(solvent– oil to be specified)	Not available
etc:	
Surface tension:	Not available
Dissociation constant in water(pKa):	Not available
Oxidation-reduction Potential:	Not available

Section 10 Stability and reactivity

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

Section 11 Toxicological information

11.1 Information on toxicological effects:

Acute toxicity:	
ATE_{mix}(oral):	Not available
ATE_{mix}(Dermal):	Not available
ATE_{mix}(inhalation):	Not available
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:	Not classified
Serious eye damage/irritation:	Not classified
Respiratory or skin sensitization:	Not classified
Germ cell mutagenicity:	Not classified
Carcinogenicity:	May cause cancer.
Reproductive toxicity:	Not classified
STOT- single exposure:	Not classified
STOT-repeated exposure:	Not classified
Aspiration hazard:	Not classified

Section 12 Ecological information

12.1 Toxicity:

Calcium chloride(CAS# 10043-52-4)

Acute (short-term) toxicity:

LC50(96h, Fish): 4 630 mg/L

LC50(48h, Crustacea): 2 400 mg/L

EC50(72h, Algae/aquatic plants): 2 900 mg/L

Chronic (long-term) toxicity:

NOEC(Fish): Not available

NOEC(Crustacea): Not available

EC50(Algae/aquatic plants): Not available

12.2 Persistence and degradability: Not available.

12.3 Bioaccumulative potential: Not available.

12.4 Mobility in soil: Not available.

12.5 Results of PBT and vPvB assessment: Not available.

12.6 Other adverse effects: Not available.

Section 13 Disposal considerations

13.1 Waste treatment methods: The material should be disposed of by incineration in a chemical incinerator in compliance with national and regional requirements.

Section 14 Transport information

	Land transport (ADR/RID)	Inland waterways (ADN)	Sea transport (IMDG)	Air transport (ICAO/IATA)
UN number	Not regulated	Not regulated	Not regulated	Not regulated
UN Proper shipping name	Not regulated	Not regulated	Not regulated	Not regulated
Transport hazard Class(es)	Not regulated	Not regulated	Not regulated	Not regulated
Packing group	Not regulated	Not regulated	Not regulated	Not regulated
Environmental hazards	No	No	No	No
Special precautions for user	See section 2.2	See section 2.2	See section 2.2	See section 2.2
Transport in bulk according to	Not regulated	Not regulated	Not regulated	Not regulated

Annex II of Marpol and the IBC Code				
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Section 15 Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:

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 1.0 Amended by (EU) 2015/830

16.2 Abbreviations and acronyms:

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

RID: Regulation for rail International transportation of Dangerous goods

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

IMDG: Code international maritime dangerous goods code

ICAO-TI: International Civil Aviation Organization The International Civil Aviation Covenant

IATA: International Air Transport Association

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
Carc. 1B	H350
	Calculation method

16.5 Relevant H-statements (number and full text):

H319: Causes serious eye irritation.

H350: May cause cancer

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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