

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[™] PA12-CF

Version 1.0

Issue date: 29-10-2020

Revision date: 29-10-2020 SDS Record Number: CSSS-TCO-010-230895

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

1.1 Product identifier:						
Identification on the label/Trade name:	PolyMide™ PA12-CF					
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	e 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):	-					
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:	-					
1.4 Emergency telephone Number:						
+86-512-52058005 Only available during office	e hours (9:00a.m17:30p.m)					
Available outside office hours?	YES NO X					

Section 2 Hazards Identification

2.1 Classification of the substance or mixture:

2.1.1 Classification:

This product does not meet the criteria for classification in any hazard class according to Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures.

REGULATION (EC) No 1272/2008				
Hazard classes/Hazard categories	Hazard codes			
N/A	N/A			

2.2 label elements:

Hazard Pictograms: No hazard pictogram is used. Signal Word(S): No signal word is used.

Hazard Statement: Not applicable. **Precautionary statement:** Not applicable.

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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 Carbon Fiber	N/A	7440-44-0	231-153-3	10-30%	Not Classified

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:

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.

4.1.2 In case of skin contact:

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

4.1.3 In case of eyes contact:

None expected to require first aid measures. Flush with running water for at least 15 minutes. If irritation persists get medical attention.

4.1.4 In case of ingestion:

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

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

The product is not classified as harmful to human health effect.

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

Symptomatic treatment.

Section 5 Firefighting measures

5.1 Extinguishing media:

substance or mixture

Suitable extinguishing media: Use extinguishing agents appropriate for surrounding fire.

Unsuitable extinguishing media: Not available.

5.2 Special hazards arising from the

No specific fire or explosion hazard. 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

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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.

7.12 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:

				Occupational Exposure Limit		Occupational Exposure Limit		
				Value (8-hour reference		Value (15-minute reference		
				period)		period)		
Country	Substance	EINECS	CAS No.	ppm	mg/ m3	ppm	mg/ m3	Note
		No.						
Ireland	Graphite							
	total inhalable dust	231-153-3	7440-44-0	-	10	-	-	-
	respirable dust			-	4	_	-	_

8.1.2 Additional exposure limits under the

Not available.

conditions of use:

8.1.3 DNEL/DMEL and PNEC-Values:

Not available.

8.2 Exposure controls:

8.2.1Appropriate engineering controls: Use adequate ventilation to keep airborne concentrations low.

8.2.2 Individual protection measures, such as personal protective equipment:

Eye/face protection:No special requirements.Hand protection:No special requirements.Body protection:No special requirements.Respiratory protection:No special requirements.

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: Black

Odour: Odorless

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Odour threshold: Not available

pH: Not available

179°C Melting point/range (°C):

Boiling point/range (°C): Not available

Flash point (°C): Not available

Not available **Evaporation rate:**

Flammability limit - lower (%): Flammability (solid, gas): Not available

Ignition temperature (°C): Not available

Upper/lower explosive limits: Not available

Not available Vapour pressure (20°C):

Vapour density: Not available

Relative Density: 1.02

Bulk density (kg/m³): Not available

Insoluble Water solubility (g/l):

n-Octanol/Water (log Po/w): Not available

Not available Auto-ignition temperature:

Decomposition temperature: Not available

Viscosity, dynamic (mPa.s): Not available

Not available **Explosive properties:**

Not available Oxidising properties:

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.

Not available

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

Not available ATE_{mix}(Dermal):

Not available ATE_{mix}(inhalation):

LD50(Oral, Rat): Not available

LD50(Dermal, Rabbit): Not available

LC50(Inhalation, Rat): Not available

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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 Not classified STOT- single exposure: STOT-repeated exposure: Not classified Aspiration hazard: Not classified

Section 12 Ecological information

12.1 Toxicity:

Acute (short-term) toxicity:

LC50(96h, Fish):Not availableLC50(48h, Crustacea):Not availableEC50(72h, Algae/aquatic plants):Not available

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)	.		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 Annex II of Marpol and the IBC Code	Not regulated	Not regulated	Not regulated	Not regulated		

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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 Χ

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 Training instructions:

Not applicable.

16.5 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.

16.6 Notice to reader:

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchant ability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. This shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

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