

Safety Data Sheet
According to Hazard Communication Standard (29 CFR 1910.1200)

PolyCore PETG-1013

Version 1.0

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SDS record number: C5SS-TCO-010-145475

1. Product and Company Identification

Material name	PolyCore PETG-1013
CAS #	Not available.
Product code	-
Product use	3D printing pellets.
Manufacturer/Supplier	
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 telephone Number:	+86-512-52058005

2. Hazards identification

GHS classification

Physical hazards	Not classified	
Health hazards	Carcinogenicity	Category 1B
	Toxic to reproduction	Category 1B
	Specific target organ toxicity (repeated exposure)	Category 1
Environmental hazards	Not classified	

GHS label elements

Hazard Pictograms



Signal word

Danger

Hazard statement

May cause cancer (Inhalation)
May damage fertility.
Causes damage to organs < heart, white blood cells, lymphoid organs, gastro-intestinal tract, kidneys > through prolonged or repeated exposure

Precautionary statement

Prevention

Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Do not breathe dust/fume/gas/mist/vapours/spray.
Wash hands thoroughly after handling.
Do not eat, drink or smoke when using this product.
Wear protective gloves/protective clothing/eye protection/face protection.

Response

IF exposed or concerned: Get medical advice/attention.
Get medical advice/attention if you feel unwell.

Storage

Store locked up.

Disposal

Dispose of contents/container in accordance with

local/regional/national/international regulations.

Other hazards

Not available.

3. Composition / Information on Ingredients

Components	CAS#	Percent
Glass Fiber	65997-17-3	25-40%
Soda lime borosilicate glass	65997-17-3	1-5%
Bis(2,2,6,6-tetramethyl-4-piperidyl)sebacate	52829-07-9	0.1-0.5%
Bis(2,6-diisopropylphenyl)carbodiimide	2162-74-5	0.5-1%

4. First Aid Measures

First aid procedures

Eye contact

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. In the case of difficulty of opening the lids, administer an analgesic eye wash (oxybuprocaine). Call a physician or poison control center.

Skin contact

Take off contaminated clothing and shoes immediately. Wash off immediately with plenty of water. Keep warm and in a quiet place. Wash contaminated clothing before re-use.

Inhalation

Move to fresh air. Oxygen or artificial respiration if needed. Victim to lie down in the recovery position, cover and keep him warm. Call a physician immediately.

Ingestion

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.

Notes to physician

Treat symptoms.

5. Fire Fighting Measure

Flammable properties

Non-flammable

Extinguishing media

Suitable extinguishing media

Dry chemical, alcohol resistant foam or carbon dioxide, water spray.

Unsuitable extinguishing media

Water with full jet.

Firefighting equipment/instructions

Wear self contained breathing apparatus for fire fighting if necessary.

Hazardous combustion products

Emits toxic fumes under fire conditions.

6. Accidental Release Measures

Personal precautions

Avoid dust formation.

Environmental precautions

Do not let product enter drains.

Methods for cleaning up

Sweep up and shovel into suitable containers for disposal. Avoid dust formation. Keep in properly labelled containers. Keep in suitable, closed containers for disposal.

7. Handling and Storage

Handling

Provide appropriate exhaust ventilation at places where dust is formed.

Storage

Store in original container. Keep in a well-ventilated place. Keep in a dry place. Keep in properly labelled containers. Keep container closed. Avoid dust formation. Keep away from incompatible products.

8. Exposure Controls / Personal Protection

Occupational exposure limits

This product has no 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	Chemical resistant goggles must be worn.
Skin protection	Wear suitable working clothing.
Respiratory protection	Suitable respiratory protective device recommended.
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	Light yellow
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	Not available
Solubility (water)	Not available
Relative Density	1.3
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 acids, strong bases and strong oxidants.
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
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Information on toxicological effects:

Acute toxicity:

LD50(Oral, Rat):	Not available
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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:	May cause cancer (Inhalation).
Reproductive toxicity:	May damage fertility.
STOT- single exposure:	Not classified
STOT-repeated exposure:	Causes damage to organs < heart, white blood cells, lymphoid organs, gastro-intestinal tract, kidneys > through prolonged or repeated exposure.
Aspiration hazard:	Not classified

12. Ecological Information

Toxicity:

Glass Fiber (CAS: 65997-17-3)

Acute toxicity		Time	Species	Method	Evaluation	Remarks
LC50	> 1 000 mg/L	96h	Fish	OECD 203	N/A	N/A
EC50	N/A	48h	Daphnia	OECD 202	N/A	N/A
EC50	> 1 000 mg/L	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	Not regulated
Proper shipping name	Not regulated
Hazard class	Not regulated
Packing group	Not regulated
Environmental hazards	No

IATA

UN number	Not regulated
UN proper shipping name	Not regulated
Transport hazard class(es)	Not regulated
Packing group	Not regulated
Environmental hazards	No

IMDG

UN number	Not regulated
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UN proper shipping name	Not regulated
Transport hazard class(es)	Not regulated
Packing group	Not regulated
Environmental hazards	No

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: 4

Flammability: 1

Physical hazard: 0

NFPA ratings

Health: 4

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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