

Version 1.0

Issue date: 07/29/2019

Revision date: 07/29/2019

SDS record number: CSSS-TCO-010-132060

1. Identification

Product name	PolyCast™
Synonyms	-
CAS #	See section 3
Product code	-
Product use	3D Printing Filament
Manufacturer/Supplier	
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:	+86-512-52058005
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Emergency telephone Number:	+86-512-52058005

2. Hazard(s) 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.

3. Composition / information on ingredients

This product does not contain hazardous ingredients above cut-off value according to HCS2012.

4. First-aid Measures**First aid procedures**

Eye contact	Flush with running water for at least 15 minutes. If irritation persists get medical attention.
Skin contact	Wash thoroughly with soap and water. Get medical attention in the unlikely event that irritation persists.
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.
Ingestion	Immediate first aid is not likely to be required. A physician or poison control center can be contacted for advice.

Notes to physician	Treat symptoms.
5. Fire-fighting measures	
Flammable properties	Not available.
Extinguishing media	
Suitable extinguishing media	Use water spray, alcohol resistant foam, dry powder or carbon dioxide to extinguish the fire.
Unsuitable extinguishing media	Avoid using DC water to extinguish fire, so as to avoid material splashes and fire spread.
Firefighting equipment/instructions	In case of fire and/or explosion do not breathe fumes. Protective respirator with independent air supply. According to size of fire Full protection, if necessary. Dispose of contaminated extinction water according to official regulations.
Hazardous combustion products	Carbon oxides, nitrogen oxides.
6. Accidental release measures	
Personal precautions	Use personal protective equipment. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Avoid contact with skin and eyes. For personal protection see section 8.
Environmental precautions	Avoid disposing into drainage/sewer system or directly into the aquatic environment.
Methods for cleaning up	Sweep up and shovel into suitable containers. Clean up affected area.
7. Handling and storage	
Handling	Ensure good ventilation/exhaustion at the workplace. Wash thoroughly after handling.
Storage	Store in cool place. Keep container tightly closed in a dry and well-ventilated place.
8. Exposure controls / personal protection	
Occupational exposure limits	This mixture has no ingredients that have PEL, TLV, or other recommended exposure limit.
Biological limit values	No biological exposure limits noted for the ingredient(s).
Appropriate engineering controls:	Use in a well-ventilated area.
Individual protection measures, such as personal protective equipment:	
Eye / face protection	Chemical safety goggles.
Skin protection	Wear suitable protective clothing to prevent skin exposure
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. Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing.
9. Physical and chemical properties	
Appearance	
Physical state	Solid
Form	Solid
Color	Translucent
Odor	Odorless

Odor threshold	Not available
pH	Not available
Vapor pressure	Not available
Melting point/Freezing point	Not available
initial boiling point and boiling range	Not available
Flash point	Not available
Evaporation rate	Not available
Flammability (solid, gas)	Not available
Explosion limits	Not available
Vapor density	Not available
Density	1.08-1.10
Solubility (water)	Insoluble
Partition coefficient	Not available
Auto-ignition temperature	Not available
Decomposition temperature	Not available
Specific gravity	Not available
Flammability limits in air, upper, %by volume	Not available
Flammability limits in air, lower, % by volume	Not available
VOC	Not available
Percent volatile	Not available
Other data	
Viscosity	Not available
Upper/lower explosive limits	Not available
Surface tension	Not available

10. Stability and reactivity

Chemical stability	Material is stable under normal conditions.
Conditions to avoid	Incompatible materials.
Incompatible materials	Avoid contact with other chemicals, oxidizing agents, strong alkalis and strong acids.
Hazardous decomposition products	Carbon oxides, nitrogen oxides.
Possibility of hazardous reactions	No dangerous 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
LD50(Dermal, Rat):	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:	Not classified
Reproductive toxicity:	Not classified

STOT- single exposure: Not classified

STOT-repeated exposure: Not classified

Aspiration hazard: Not classified

12. Ecological information

Toxicity:

Acute toxicity		Time	Species	Method	Evaluation	Remarks
EC50	N/A	72h	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.

Results of PBT&vPvB assessment: Not available.

Other adverse effects: No known significant effects or critical hazards.

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

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, including date of preparation or last revision

HMIS® ratings

Health: 0

Flammability: 1

Physical hazard: 0

NFPA ratings

Health: 0

Flammability: 1

Instability: 0

Disclaimer

The information in the sheet was written based on the best knowledge and experience currently available.

Issue date

07-29-2019

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