

Version 1.0

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SDS record number: CSSS-TCO-100-201020

**1. Product and Company Identification**

<b>Material name</b>	PolyTerra™ PLA-r
<b>CAS #</b>	See section 3
<b>Product code</b>	-
<b>Product use</b>	3D Printing Filament
<b>Manufacturer/Supplier</b>	
<b>Supplier(Manufacturer):</b>	JF Polymers (Suzhou) Co., Ltd.
<b>Address:</b>	Building 6&7&11, No.2, Hai Cheng Road, Chang Shu Economic & Technological Development Zone, 215513, People's Republic of China
<b>Contact person(E-mail):</b>	zhenggang.cai@polymaker.com
<b>Telephone:</b>	0086-512-52058005
<b>Fax:</b>	-
<b>Emergency telephone Number:</b>	0086-512-52058005

**2. Hazards identification**

<b>GHS classification</b>	
<b>Physical hazards</b>	Not classified
<b>Health hazards</b>	Not classified
<b>Environmental hazards</b>	Not classified
<b>GHS label elements</b>	
<b>Hazard Pictograms</b>	No hazard pictogram is used.
<b>Signal word</b>	No signal word is used.
<b>Hazard statement</b>	Not applicable.
<b>Precautionary statement</b>	
<b>Prevention</b>	Not applicable.
<b>Response</b>	Not applicable.
<b>Storage</b>	Not applicable.
<b>Disposal</b>	Not applicable.
<b>Other hazards</b>	Not available.

**3. Composition / Information on Ingredients**

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

**4. First Aid Measures**

<b>First aid procedures</b>	
<b>Eye contact</b>	None expected to require first aid measures. Flush with running water for at least 15 minutes. If irritation persists get medical attention.
<b>Skin contact</b>	None expected to require first aid measures. Wash thoroughly with soap and water. Get medical attention in the unlikely event that irritation persists.
<b>Inhalation</b>	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.
<b>Ingestion</b>	Immediate first aid is not likely to be required. A physician or poison control center can be contacted for advice.

<b>Notes to physician</b>	Treat symptoms.
<b>5. Fire Fighting Measure</b>	
<b>Flammable properties</b>	Not available.
<b>Extinguishing media</b>	
<b>Suitable extinguishing media</b>	Use extinguishers suitable for surrounding fire.
<b>Unsuitable extinguishing media</b>	Not available.
<b>Firefighting equipment/instructions</b>	Wear self contained breathing apparatus for fire fighting if necessary.
<b>Hazardous combustion products</b>	Carbon oxides.
<b>6. Accidental Release Measures</b>	
<b>Personal precautions</b>	Use personal protective equipment. Ensure adequate ventilation. Evacuate personnel to safe areas.
<b>Environmental precautions</b>	Avoid disposing into drainage/sewer system or directly into the aquatic environment.
<b>Methods for cleaning up</b>	Sweep up and shovel into suitable containers. Clean up affected area.
<b>7. Handling and Storage</b>	
<b>Handling</b>	Ensure good ventilation/exhaustion at the workplace. Wash thoroughly after handling.
<b>Storage</b>	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.
<b>8. Exposure Controls / Personal Protection</b>	
<b>Occupational exposure limits</b>	This product has no PEL, TLV, or other recommended exposure limit.
<b>Biological limit values</b>	No biological exposure limits noted for the ingredient(s).
<b>Appropriate engineering controls:</b>	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.
<b>Individual protection measures, such as personal protective equipment:</b>	
<b>Eye / face protection</b>	No special protection required.
<b>Skin protection</b>	No special protection required.
<b>Respiratory protection</b>	No special protection required.
<b>General hygiene considerations</b>	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.
<b>9. Physical &amp; Chemical Properties</b>	
<b>Appearance</b>	
<b>Physical state</b>	Solid
<b>Form</b>	Solid
<b>Color</b>	Milky white translucent
<b>Odor</b>	Not available
<b>Odor threshold</b>	Not available
<b>pH</b>	Not available
<b>Vapor pressure</b>	Not available
<b>Vapor density</b>	Not available
<b>Boiling point</b>	Not available
<b>Melting point/Freezing point</b>	Not available
<b>Solubility (water)</b>	Insoluble

<b>Relative Density</b>	1.32
<b>Flash point</b>	Not available
<b>Partition coefficient</b>	Not available
<b>Flammability limits in air, upper, %by volume</b>	Not available
<b>Flammability limits in air, lower, % by volume</b>	Not available
<b>Auto-ignition temperature</b>	Not available
<b>VOC</b>	Not available
<b>Percent volatile</b>	Not available
<b>Molecular Formula</b>	Not available
<b>Molecular Weight</b>	Not available
<b>Other data</b>	
<b>Viscosity</b>	Not available
<b>Dissociation constant</b>	Not available

## 10. Chemical Stability & Reactivity Information

<b>Reactivity</b>	The substance is stable under normal storage and handling conditions.
<b>Chemical stability</b>	Material is stable under normal conditions.
<b>Conditions to avoid</b>	Incompatible materials.
<b>Incompatible materials</b>	Strong oxidizing agents.
<b>Hazardous decomposition products</b>	Carbon oxides.
<b>Possibility of hazardous reactions</b>	No hazardous reactions known.

## 11. Toxicological Information

### Toxicokinetics, metabolism and distribution:

**Non-human toxicological data:** Not available

### Information on toxicological effects:

#### Acute toxicity:

<b>LD50(Oral, Rat):</b>	Not available
<b>LD50(Dermal, Rabbit):</b>	Not available
<b>LC50(Inhalation, Rat):</b>	Not available
<b>Skin corrosion/Irritation:</b>	Not classified
<b>Serious eye damage/irritation:</b>	Not classified
<b>Respiratory or skin sensitization:</b>	Not classified
<b>Germ cell mutagenicity:</b>	Not classified
<b>Carcinogenicity:</b>	Not classified
<b>Reproductive toxicity:</b>	Not classified
<b>STOT- single exposure:</b>	Not classified
<b>STOT-repeated exposure:</b>	Not classified
<b>Aspiration hazard:</b>	Not classified

## 12. Ecological Information

### Toxicity:

Acute toxicity		Time	Species	Method	Evaluation	Remarks
LC50	N/A	96h	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.

<b>Mobility in soil:</b>	Not available.
<b>Results of PBT&amp;vPvB assessment:</b>	Not available.
<b>Other adverse effects:</b>	Not available.

### 13. Disposal Considerations

<b>Disposal instructions</b>	Dispose of contents/container in accordance with local/regional/national/international regulations.
<b>Contaminated packaging</b>	Since emptied containers may retain product residue, follow label warnings even after container is emptied.

### 14. Transport Information

#### DOT

##### Basic shipping requirements:

<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>	No

#### IATA

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

#### IMDG

<b>UN number</b>	Not regulated
<b>UN proper shipping name</b>	Not regulated
<b>Transport hazard class(es)</b>	Not regulated
<b>Packing group</b>	Not regulated
<b>Environmental hazards</b>	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: 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** 10-20-2020

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