

Version 1.0

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SDS record number: CSSS-TCO-100-201020

## 1. Product and Company Identification

|                             |  |
|-----------------------------|--|
| Material name               | PolyTerra™ PLA   |
| 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:                  | 0086-512-52058005  |
| Fax:                        | -  |
| Emergency telephone Number: | 0086-512-52058005  |

## 2. Hazards 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.              |
| Other hazards           | 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

### First aid procedures

|              |   |
|--------------|---|
| Eye contact  | None expected to require first aid measures. Flush with running water for at least 15 minutes. If irritation persists get medical attention.  |
| 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.                                       |
| 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. |
| 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.  |
| <b>5. Fire Fighting Measure</b>   |  |
| Flammable properties  | Not available.   |
| Extinguishing media   |  |
| Suitable extinguishing media  | Use extinguishers suitable for surrounding fire.   |
| Unsuitable extinguishing media  | Not available.   |
| Firefighting equipment/instructions   | Wear self contained breathing apparatus for fire fighting if necessary.  |
| Hazardous combustion products   | Carbon oxides.   |
| <b>6. Accidental Release Measures</b>   |  |
| Personal precautions  | Use personal protective equipment. Ensure adequate ventilation. Evacuate personnel to safe areas.  |
| 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.  |
| <b>7. Handling and Storage</b>  |  |
| 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. Containers which are opened must be carefully resealed and kept upright to prevent leakage. |
| <b>8. Exposure Controls / Personal Protection</b>                             |  |
| 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.   |
| <b>Individual protection measures, such as personal protective equipment:</b> |  |
| Eye / face protection   | No special protection required.  |
| Skin protection   | No special protection required.  |
| Respiratory protection  | No special protection required.  |
| 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.                     |
| <b>9. Physical &amp; Chemical Properties</b>                                  |  |
| Appearance  |  |
| Physical state  | Solid  |
| Form  | Solid  |
| Color   | Milky white translucent  |
| Odor  | Not available  |
| 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)  | Insoluble  |

|  |               |
|--|---------------|
| Relative Density                               | 1.32          |
| 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 |
| <b>Other data</b>                              |               |
| 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 oxidizing agents.  |
| 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

### Information on toxicological effects:

#### Acute toxicity:

|                                    |                |
|------------------------------------|----------------|
| LD50(Oral, Rat):                   | Not available  |
| 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:                   | 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 |
|----------------|-----|------|---------|----------|------------|---------|
| 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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