

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
PolyTerra™ PLA

Version 1.0

Issue date: 18-09-2020

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SDS Record Number: CSSS-TCO-100-200918

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

1.1 Product identifier:

Identification on the label/Trade name: PolyTerra™ PLA
Additional identification: Not available
Identification of the product: See section 3
Index Number: See section 3
REACH registration No.:

1.2 Relevant identified uses of the substance 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: 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: -

1.4 Emergency telephone Number:

0086-512-52058005 Only available during office hours (9:00a.m.-17:30p.m)

Available outside office hours? YES NO

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.

2.3 Other hazards:

Not available.

Section 3 Composition/information on ingredients

Substance/Mixture: Mixture

Ingredient(s):

This product does not contain hazardous ingredients above cut-off value according to Regulation (EC) 1272/2008.

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:

Remove to fresh air. Get medical attention for any breathing difficulty.

4.1.2 In case of skin contact:

Wash off with soap and plenty of water.

4.1.3 In case of eyes contact:

Immediately flush eyes with plenty of water, lifting upper and lower eyelids occasionally. Get medical attention if irritation persists.

4.1.4 In case of ingestion:

If large amounts were swallowed, get medical 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:

Suitable extinguishing media: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media: Not available.

5.2 Special hazards arising from the substance or mixture

No specific fire or explosion hazard.

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: Avoid dust formation.

6.1.2 For emergency responders: Wear an appropriate NIOSH/MSHA approved respirator if dust is generated.

6.2 Environmental Precautions:

Do not let large amount of product enter drains.

6.3 Methods and material for Containment and Cleaning up:

Sweep up and shovel. Keep in suitable, closed and properly labelled containers for disposal.

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:** Provide appropriate exhaust ventilation at places where dust is formed.
- 7.1.2 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:

Keep container closed in a cool, dry place.

7.3 Specific end use(s):

Not available.

Section 8 Exposure Controls/Personal Protection

8.1 Control parameters:

- 8.1.1 Occupational exposure limits:** Not available.
- 8.1.2 Additional exposure limits under the conditions of use:** Not available.
- 8.1.3 DNEL/DMEL and PNEC-Values:** Not available.

8.2 Exposure controls:

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

8.2.2 Individual protection measures, such as personal protective equipment:

- Eye/face protection:** Safety goggles.
- Hand protection:** Wear protective gloves.
- Body protection:** Wear protective clothing.
- Respiratory protection:** Use with adequate ventilation. In case of insufficient local exhaust ventilation, wear protective mask.
- 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:** Various
- Odour:** Not available
- Odour threshold:** Not available
- pH:** Not available
- Melting point/range (°C):** Not available
- Boiling point/range (°C):** Not available
- Flash point (°C):** Not available
- Evaporation rate:** Not available
- Flammability limit - lower (%):** Not available
- Flammability (solid, gas):** Not available
- Ignition temperature (°C):** Not available
- Upper/lower explosive limits:** Not available
- Vapour pressure (20°C):** Not available
- Vapour density:** Not available
- Relative Density:** 1.32
- Bulk density (kg/m³):** Not available

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| Water solubility (g/l): | Insoluble |
| n-Octanol/Water (log Po/w): | Not available |
| Auto-ignition temperature: | Not available |
| Decomposition temperature: | Not available |
| Viscosity, dynamic (mPa.s): | Not available |
| Explosive properties: | Not available |
| Oxidising properties: | Not available |
| 9.2. Other information: | |
| Fat solubility(solvent– oil to be specified) etc: | Not available |
| Surface tension: | Not available |
| Dissociation constant in water(pKa): | Not available |
| Oxidation-reduction Potential: | Not available |

Section 10 Stability and reactivity

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|---|---|
| 10.1 Reactivity: | The substance is stable under normal storage and handling conditions. |
| 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 |
| ATE_{mix}(Dermal): | Not available |
| ATE_{mix}(inhalation): | Not available |
| 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 |

Section 12 Ecological information

| | |
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| 12.1 Toxicity: | |
| Acute (short-term) toxicity: | |
| LC50(96h, Fish): | Not available |

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| LC50(48h, Crustacea): | Not available |
| EC50(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) | Inland waterways (ADN) | Sea transport (IMDG) | 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 |

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

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 Declare 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 merchantability 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.