According to EU Regulation No. 1907/2006
Issued on: 14 October 2015



Premium PLA

1. Identification of the substance/preparation and of the company

1.1 Trade name: Premium PLA

1.2 Chemical name: PolyLactic Acid based polymer blend

1.3 Typical use of the material: Monofilament for FFF/FDM technology based 3D printing

1.4 Identification of the company: Formfutura VOF

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2. Identification of the substance/preparation and of the company

2.1 Risk advise to man and the environment: No risk exists to the health of users if the product is

handled and processed properly.

2.2 Classification of the substance or mixture: Not classified as dangerous according to Directive

67/548/EEC

2.3 Special advice on hazards: Danger of burns while handling the heated or molten

product.

3. Composition / information on ingredients

3.1 Chemical nature: Blend of PLA based polymers enhanced for 3D printing

3.2 CAS number: 9051-89-2

3.3 Additional information: No harmful substances used.

4. First-aid measures

4.1 If inhaled: After inhalation of decomposition products, gases or dust, bring the affected

person to a source of fresh air and keep calm. Contact a physician in case of

discomfort.

4.2 On skin contact: In case of contact with melted material, immediately cool the skin with plenty of

cold running water. Removal of adhering to skin polymer, or burns caused by

molten material require hospital treatment.

4.3 On contact with eyes: In case of contact with eyes, rinse open eyes thoroughly with water. If irritation

develops, seek immediate medical attention.

4.4 On ingestion: No effects known. Rinse mouth with water and then drink plenty of water. Seek

medical attention if difficulties or discomfort occur.

4.5 Note to the physician: Treat symptomatically

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Firefighting measures

5.1 Suitable extinguishing media: Dry extinguishing media, water, or CO₂,.

5.2 Specific hazards: Carbon monoxide (CO), carbon dioxide (CO2), and hydrocarbons

during incomplete combustion. The substances mentioned can be

releases at highly elevated temperatures and in case of fire.

5.3 Special protective equipment: Full protective clothing and self-contained breathing apparatus.

5.4 Further information: Fine dust dispersed in air may ignite. Risk of ignition followed by flame

propagation or secondary explosions shall be prevented by avoiding

accumulation of dust.

Dispose of fire debris and contaminated extinguishing water in

accordance with official regulations.

Accidental Release Measures

6.1 Personal precautions: Use personal protective equipment/clothing (see Section 8). Avoid eye

contact and dust formation and remove all sources of ignition. Sweep up

to prevent slipping hazard.

6.2 Environmental precautions: Prevent entry into drainage systems, or surface water.

6.3 Methods for cleaning up: Sweep/shovel into suitable container for disposal.

Avoid raising dust and ensure adequate ventilation.

Handling and storage

Handle in a well ventilated area. Install local exhaust at 3D printers area is 7.1 Handling:

> recommended when many printers are operated at once. Avoid contact with heated or molten product. Use personal protective equipment (see Section 8). Avoid dust formation and electrostatic charge. Keep away from fire ignition

sources.

7.2 Storage: Protect from water, moisture and direct sunlight. Store material in dry rooms and

keep material in closed packaging/container with desiccant when not in use.

Store at ambient temperatures. Avoid all sources of ignition.

7.3 Precautions: No special precautions required.

7.4 Specific end use(s): Primarily used for 3D printing.

Exposure controls / personal protection

8.1 Occupational exposure limits: Given suitable ventilation it can be that the threshold limits will not

be reached.

8.2 Exposure controls: Provide appropriate exhaust ventilation at places where dust is

formed. Avoid electrostatic charge by use of grounding cables.

8.3 Personal protective equipment

8.3.1 Hand protection: Wear heat protection gloves, preferably cotton or leather, when

handling hot molten product.

8.3.2 Eye protection: Wear protective glasses, preferable with side-shields.

Wear (protective) clothing to avoid direct exposure of skin to hot 8.3.3 Skin and body protection:

molten product when handling.

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8.3.4 Safety and hygiene measures: Avoid contact of hot molten material to skin. Avoid inhalation of

dust, mists and vapours. Eye wash fountains and safety showers must be easily accessible. Handle in accordance with good industrial hygiene and safety practice. No eating or drinking

during working.

8.4 Environmental exposure controls: Prevent entry into drainage systems, or surface water.

9. Physical and chemical properties

9.1 Form: Granules 9.2 Colour: Natural

9.3 Odour: Almost odourless9.4 Melting point/range: 150 °C - 170 °C

9.5 Auto-ignition temperature: Not self-igniting / Not highly flammable

9.6 Explosions limit: Not specified
9.7 Density: 1.24 g/cc
9.8 Solubility in water: Insoluble

10. Stability and reactivity

10.1 Stability: Product is stable at recommended storage conditions.

10.2 Conditions to avoid: Avoid extreme heat and all sources of ignition. Thermal

decomposition > 240°C.

10.3 Substances to avoid: Strong oxidizing agents.

10.4 Hazardous reactions: The product is chemically stable.

10.4.1 Hazardous decomposition products: Carbon monoxide (CO), carbon dioxide (CO2), and

hydrocarbons.

11. Toxicological information

11.1 Information on toxicological effects: Toxicological data has not been determined for this product.

Information is based on similar products.

11.1.1 Acute toxicity

Inhalation: No data available, but not expected.

Ingestion: After ingestion stomach pain or nausea are possible.

Skin contact: No data available, but not expected. Eye contact: No data available, but not expected.

11.1.2 Irritation

Skin: Dust can cause irritation of eyes, respiratory organs and skin. Eye: Dust can cause irritation of eyes, respiratory organs and skin.

11.1.3 Sensitization: Not expected to be a skin sensitizer.
11.1.4 Repeated dose toxicity: Not expected to cause toxic effects.
11.1.5 Carcinogenicity: No data available, but not expected.
11.1.6 Mutagenicity: No data available, but not expected.
11.1.7 Toxicity for reproduction: No data available, but not expected.

11.2 Other information: Based on our state of knowledge and experience no injurious

health effects are expected if product is properly handled for the

designated use.

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12. Ecological information

12.1 Information on eco-toxicity: No ecological toxicity data has been generated for this product. There

are no test results available and information is based on similar

products

12.1.1 Ecological toxicity effects: No negative ecological effects are known at the present state of

knowledge.

12.2Mobility in soil: The product is essentially insoluble in water.

The product has low mobility in soil.

12.3Persistence and degradability: Product is biodegradable.

12.4Bioaccumulation potential: The product will not be readily bioavailable due to its consistency and

insolubility in water.

13. Disposal considerations

13.1 Product: Generation of waste should be minimized, check possibility for recycling. Waste product

can be incinerated or dumped together with domestic waste in compliance with local

authority requirements.

13.2 Packaging: Packaging material has to be emptied completely and disposed in accordance with the

regulations. Packaging can be recycled if not contaminated.

14. Transport information

14.1 International Air Transportation Association Classification (IATA): This product is not classified as

hazardous.

14.2International Maritime Organization (IMDG): This product is not classified as

hazardous.

14.314.3 UN, IMO, ADR/RID, ICAO Code: This product is not classified as

hazardous.

15. Regulatory information

15.1EU / National regulations: This product does not require a hazard warning label in accordance with

EC Directives.

16. Other information

Company name: Formfutura VOF

Additional data: In addition to the information given in this Material Safety Data Sheet (MSDS) we refer to

the products specific Technical Data Sheet (TDS).

Disclaimer: The information given in the Material Safety Data Sheet only applies to the described

product in connection with its appropriate use. All information is based on the latest state of our knowledge. In particular, it describes our product under the aspect of possible hazards and pertaining safety measures. The information does not constitute any guarantee of specific product and/or quality properties. The information given in this Material Safety Data Sheet is not required according to article 31 and Annex II of Regulation (EC) No.1907/2006. It merely serves the purpose of providing sufficient information on a voluntary basis to ensure safe use of the compound/product. There is no

obligation on the part of Formfutura to revise this document.

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