



Safety Data Sheet

According to EU Directive 1907/2006, as amended

Product name: Real filament PLA Wood

Date of issue: 23-7-2018

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

1.1 Trade name: Real filament PLA Wood

1.2 Use of the product: 3Dprinter Filament

1.3 Supplier:

ReprapWorld B.V.
Wagenmaker 6a
2631 RL Nootdorp, The Netherlands
Phone: +31 (0)85 0091531

2. Hazards identification

2.1 Classification of the substance or mixture

Not dangerous according to Directive 1272/2008/EC.

2.2 Label elements

Danger of burns in contact with hot polymer and hazardous vapors in case of burning.

3. Composition/information on ingredients

3.1 Chemical characteristics:

Polymer-blend based on PLA filled with 30% woodfibres and additives.

3.2 CAS no:

9051-89-2

3.3 Additional information:

No harmful ingredients.

4. First aid measures

4.1 Description of first aid measures

On skin contact:

In case of contact with molten polymer immediately cool the skin with cold water. Medical aid may be required to remove adhering material and for treatment of burns.

After inhalation:

After inhalation of decomposition gases or dust remove patient to fresh air. Contact a doctor in case of discomfort.

On ingestion:

No effects known. Rinse mouth with water and drink more water. Contact a doctor in case of discomfort.

On eyes contact:

Rinse open eyes thoroughly with water.

5. Fire fighting measures

5.1 Extinguishing media

Suitable extinguishing media: Water spray, Dry powder, Carbon dioxide (CO₂).

Unsuitable extinguishing media : Do not use a solid water stream as it may scatter and spread fire.

5.2 Special hazards arising from the substance or mixture

During incomplete combustion release of carbon monoxide, carbon dioxide and hydrocarbons



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5.3 Advice for fire fighters

Fire fighting measures

Assure an extended cooling down period to prevent re-ignition. Evacuate area. Prevent run-off from fire control or dilution from entering streams, sewers or drinking water supply. Fire-fighters should use standard protective equipment and in enclosed spaces, self-contained breathing apparatus (SCBA). Use water spray to cool fire exposed surfaces and to protect personnel.

Unusual Fire Hazards:

Explosion: Avoid generating dust; fine dust dispersed in air in sufficient concentration and in the presence of an ignition source is a potential dust explosion hazard.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Use suitable protective clothing. Avoid eye contact and inhalation of dusts.
Keep ignition sources away.

6.2 Methods for cleaning up

Sweep up material and place in a container, risk of slipping, Avoid ingress of material into drainage systems.

7. Handling and storage

7.1 Handling

Avoid contact with molten polymer. Avoid generation of dust, inhalation of dusts.
Keep ignition sources away.

7.2 Conditions for safe storage, including any incompatibilities

Protect against moisture. Store cool and keep packaging closed when not in use.
Avoid sources of ignition

8. Exposure controls/personal protection

8.1 Control parameters

With suitable ventilation the threshold limits assumedly will not be reached. Avoid electrostatic charge by use of grounding cables

8.2 Personal safety equipment

Use adequate safety equipment, e.g. protective clothing, eye protection glasses, heat protection gloves.
In case of dust formation wear mask with particle filter



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9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

| | |
|--|--|
| Appearance | Solid Filament |
| Odour | depending on product grade |
| Colour | depending on product grade |
| Odour threshold | No information available |
| pH | Not applicable |
| Melting/freezing point | 140-150°C |
| Initial boiling point and boiling range | Not applicable |
| Flash point | Not applicable |
| Evaporation rate | Not applicable |
| Flammability (solid, gas) | No information available |
| Upper/lower flammability or explosive limits | UEL: No data available LEL: No data available |
| Vapour pressure | Not applicable |
| Vapour density | Not applicable |
| Relative density | 1.1-1.2 g/cm ³ |
| Solubility(ies) | insoluble |
| Partition coefficient (n-octanol/water) | Not available |
| Auto-ignition temperature | No information available |
| Decomposition temperature | >230°C |
| Viscosity | Not applicable |
| Explosive properties | none |
| Oxidizing properties | none |

10. Stability

10.1 Reactivity:

No information available

10.2 Chemical stability:

Material is stable under normal conditions.

10.3 Possibility of hazardous reactions:

No hazardous reactions observed under normal handling and storage conditions

10.4 Conditions to avoid

Avoid exposure to extreme heat and all sources of ignition. Thermal decomposition > 230°C.

10.5 Incompatible materials:

Strong oxidizing agents.

10.6 Hazardous decomposition products

Carbon monoxide, tetrahydrofuran, low molecular weight oligomers, carbon dioxide

11. Toxicological information

11.1 Information on toxicological effects

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 Toxicity

No negative ecological effects known at the present state of knowledge, test results are not available. Due to insolubility in water most probably not hazardous to aquatic organisms..

12.2 Persistence and degradability

Due to its consistency and insolubility in water biological accumulation is not expected

13. Disposal considerations

13.1 Waste treatment methods

Waste from residues / unused products

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.

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

Product has been classified as being non-dangerous substance according to transport regulations ADR, RID, IMDG, IATA/ICAO

14.1 UN number

Not applicable

14.2 UN proper shipping name

Not applicable

14.3 Transport hazard class(es)

Not applicable

14.4 Packing Group

Not applicable

14.5 Environmental hazards

No additional data is available

14.6 Special precautions for user

No data available

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not evaluated

15. Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture Regulation (EC) No. 1907/2006, REACH Article 59(1). Candidate List

This product does not require a hazard warning label in accordance with EC Directives.



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16. Other information

Information is referenced from other manufacturers.

For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations).

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006 and Regulation (EC) No. 2015/830. Label element according to Regulation (EC) No 1272/2008.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.