SAFETY DATA SHEET





SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade name or designation

Premium PLA / EasyFil PLA / ReForm rPLA

Registration number

of the mixture

SynonymsNone.Issue date26-Oct-18Revision date08-Nov-21Version number02

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses3D printer filamentUses advised againstNone known.

1.3. Details of the supplier of the safety data sheet

Supplier

Company name Formfutura BV

Address Groenestraat 215, 6531 HH Nijmegen, The Netherlands

Division

Telephone +31 (0)85 743 4000 (Office hours Mo. - Fr. 09:00 - 17:00 CET)

e-mail product.compliance@formfutura.com

Contact person Product compliance

1.4. Emergency telephone +31 (0)30 274 8888, only for the doctor

number National Poison Information Center Utrecht, The Netherlands

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

The mixture has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

Classification according to Regulation (EC) No 1272/2008 as amended

This mixture does not meet the criteria for classification according to Regulation (EC) 1272/2008 as amended.

Hazard summary Not available.

2.2. Label elements

Label according to Regulation (EC) No. 1272/2008 as amended

Hazard pictograms None.
Signal word None.

Hazard statements The mixture does not meet the criteria for classification.

Precautionary statements

PreventionNot available.ResponseNot available.StorageNot available.DisposalNot available.

Supplemental label information None.

2.3. Other hazards Not a PBT or vPvB substance or mixture.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

General information

Chemical name % CAS-No. / EC No. REACH Registration No. Index No. Notes

Polylactic Acid (PLA) resin > 98

Classification: None.

Composition comments The full text for all H statements is displayed in section 16.



SECTION 4: First aid measures

General information Ensure that medical personnel are aware of the material(s) involved, and take precautions to

protect themselves.

4.1. Description of first aid measures

Inhalation Not likely, due to the form of the product. If exposed to excessive levels of dusts or fumes, remove

to fresh air and get medical attention if cough or other symptoms develop.

If burned by contact with hot material, cool molten material adhering to skin as quickly as possible Skin contact

with water, and see a physician for removal of adhering material and treatment of burn. Do not

peel polymer from the skin.

Not likely, due to the form of the product. If hot product contacts eye, flush with water for at least Eye contact

15 minutes and seek medical attention immediately.

Ingestion Not likely, due to the form of the product.

4.2. Most important symptoms and effects, both acute and

delayed 4.3. Indication of any immediate medical attention

and special treatment needed

Exposure may cause temporary irritation, redness, or discomfort.

Treat symptomatically.

SECTION 5: Firefighting measures

General fire hazards No unusual fire or explosion hazards noted.

5.1. Extinguishing media

Suitable extinguishing

media

Unsuitable extinguishing

media

5.2. Special hazards arising

Do not use water jet as an extinguisher, as this will spread the fire.

Water fog. Foam. Dry chemical powder. Carbon dioxide (C02).

During fire, gases hazardous to health may be formed.

from the substance or mixture 5.3. Advice for firefighters

Special protective

equipment for firefighters

Special fire fighting procedures

Self contained breathing apparatus and full protective clothing must be worn in case of fire.

Move containers from fire area if you can do so without risk.

Specific methods Use standard firefighting procedures and consider the hazards of other involved materials.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency

personnel

Keep unnecessary personnel away. For personal protection, see section 8 of the SDS.

For emergency responders

Keep unnecessary personnel away. Use personal protection recommended in Section 8 of the

SDS.

6.2. Environmental precautions

Avoid discharge into drains, water courses or onto the ground.

6.3. Methods and material for

Sweep up or vacuum up spillage and collect in suitable container for disposal.

containment and cleaning up

For waste disposal, see section 13 of the SDS.

Observe good industrial hygiene practices.

6.4. Reference to other

sections

For personal protection, see section 8 of the SDS. For waste disposal, see section 13 of the SDS.

Store in tightly closed container. Store away from incompatible materials (see Section 10 of the

SECTION 7: Handling and storage

7.1. Precautions for safe handling

7.2. Conditions for safe

storage, including any

incompatibilities

SDS).

Not available. 7.3. Specific end use(s)

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits No exposure limits noted for ingredient(s).

Biological limit values No biological exposure limits noted for the ingredient(s).

Recommended monitoring

procedures

Follow standard monitoring procedures.



Derived no effect levels

(DNELs)

Not available.

Predicted no effect concentrations (PNECs)

Not available.

8.2. Exposure controls

Appropriate engineering

controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Individual protection measures, such as personal protective equipment

General information Personal protection equipment should be chosen according to the CEN standards and in

discussion with the supplier of the personal protective equipment.

Eye/face protection Wear safety glasses with side shields (or goggles).

Skin protection

- Hand protection Wear appropriate chemical resistant gloves.

Other Wear suitable protective clothing.

Respiratory protection In case of insufficient ventilation, wear suitable respiratory equipment.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

Hygiene measures Always observe good personal hygiene measures, such as washing after handling the material

and before eating, drinking, and/or smoking. Routinely wash work clothing and protective

equipment to remove contaminants.

Environmental exposure

controls

Environmental manager must be informed of all major releases.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state Solid.
Form Filament

Color depends on product specification.

Odour Slight.

Odour thresholdNot available.pHNot available.Melting point/freezing point150 - 180 °CInitial boiling point and boilingNot available.

range

Flash point Not available.

Evaporation rate Not available.

Flammability (solid, gas) Not available.

Upper/lower flammability or explosive limits

Flammability limit - lower

Not available.

(%)

Flammability limit - upper

Not available.

(%)

Vapour pressureNot available.Vapour densityNot available.

Relative density 1.25

Solubility(ies)

Solubility (water) Insoluble

Partition coefficient Not available.

(n-octanol/water)

Auto-ignition temperature

Decomposition temperature

Viscosity

Not available.

250 °C

Not available.

Not explosive properties

Explosive properties

Not explosive.

Oxidising properties

Not oxidising.



No relevant additional information available. 9.2. Other information

SECTION 10: Stability and reactivity

10.1. Reactivity The product is stable and non reactive under normal conditions of use, storage and transport.

10.2. Chemical stability Material is stable under normal conditions.

10.3. Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

10.4. Conditions to avoid Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Avoid

temperatures exceeding the decomposition temperature. Contact with incompatible materials.

10.5. Incompatible materials Strong oxidising agents.

10.6. Hazardous

No hazardous decomposition products are known.

decomposition products

SECTION 11: Toxicological information

Occupational exposure to the substance or mixture may cause adverse effects. **General information**

Information on likely routes of exposure

Inhalation Based on available data, the classification criteria are not met. Skin contact Based on available data, the classification criteria are not met. Eye contact Based on available data, the classification criteria are not met.

Ingestion May cause discomfort if swallowed. However, ingestion is not likely to be a primary route of

occupational exposure.

Symptoms Exposure may cause temporary irritation, redness, or discomfort.

11.1. Information on toxicological effects

Acute toxicity Not known.

Skin corrosion/irritation Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met. Serious eye damage/eye

irritation

Based on available data, the classification criteria are not met. Respiratory sensitisation Skin sensitisation Based on available data, the classification criteria are not met. Germ cell mutagenicity Based on available data, the classification criteria are not met. Carcinogenicity Based on available data, the classification criteria are not met.

Hungary, 26/2000 EüM Ordinance on protection against and preventing risk relating to exposure to carcinogens at work (as amended)

Not listed.

Based on available data, the classification criteria are not met. Reproductive toxicity Specific target organ toxicity -Based on available data, the classification criteria are not met.

single exposure

Based on available data, the classification criteria are not met.

Specific target organ toxicity -

repeated exposure

Based on available data, the classification criteria are not met. Aspiration hazard

Mixture versus substance

information

No information available.

Other information This product has no known adverse effect on human health.

SECTION 12: Ecological information

The product is not classified as environmentally hazardous. However, this does not exclude the 12.1. Toxicity

possibility that large or frequent spills can have a harmful or damaging effect on the environment.

12.2. Persistence and

degradability

Biodegradable in industrial composting facilities.

12.3. Bioaccumulative potential Not available.

Partition coefficient

n-octanol/water (log Kow) Not available. **Bioconcentration factor (BCF)** No data available.

12.4. Mobility in soil Not a PBT or vPvB substance or mixture. Not available.

12.5. Results of PBT and vPvB

assessment

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component. 12.6. Other adverse effects



SECTION 13: Disposal considerations

13.1. Waste treatment methods

Residual waste Dispose of in accordance with local regulations.

Contaminated packaging Empty containers should be taken to an approved waste handling site for recycling or disposal. **EU waste code**The Waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Disposal methods/information
Collect and reclaim or dispose in sealed containers at licensed waste disposal site.

Special precautions Dispose in accordance with all applicable regulations.

Not applicable.

SECTION 14: Transport information

ADR

14.1. 14.6.: Not regulated as dangerous goods.

RID

14.1. 14.6.: Not regulated as dangerous goods.

ADN

14.1. 14.6.: Not regulated as dangerous goods.

IATA

14.1. 14.6.: Not regulated as dangerous goods.

IMDG

14.1. 14.6.: Not regulated as dangerous goods.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC

Code

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

EU regulations

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I and II, as amended Not listed.

Regulation (EC) No. 850/2004 On persistent organic pollutants, Annex I as amended

Not listed

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended

Not listed

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended Not listed

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended Not listed.

Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry, as amended

Not listed.

Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA

Not listed.

Authorisations

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization, as amended

Not listed.

Restrictions on use

Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended Not listed.

Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work, as amended.

Not listed.

Other EU regulations

Directive 2012/18/EU on major accident hazards involving dangerous substances, as amended

Not listed.

Other regulations The product is classified and labelled in accordance with Regulation (EC) 1272/2008 (CLP

Regulation) as amended. This Safety Data Sheet complies with the requirements of Regulation

(EC) No 1907/2006, as amended.



Follow national regulation on the protection of workers from the risks of exposure to carcinogens **National regulations**

and mutagens at work, in accordance with Directive 2004/37/EC.

15.2. Chemical safety

assessment

No Chemical Safety Assessment has been carried out.

SECTION 16: Other information

Not available. List of abbreviations Not available. References

Information on evaluation method leading to the classification of mixture

The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available.

Full text of any H-statements not written out in full under

None.

Sections 2 to 15

None. **Revision information**

Training information

Follow training instructions when handling this material.

Disclaimer

This safety data sheet (SDS) is issued based on the latest reference, data etc currently available. The information in this SDS has been carefully assessed, but no guarantee is given for its accuracy. We cannot anticipate all conditions under which this product may be used. It is the user's responsibility to take appropriate safety measures for handling.