

## Safety Data Sheet – PLA Original

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

#### 1.1 Product identifier

Trade name or designation of the mixture	PLA Original
Registration Number	-
Synonyms	None
Issue date	02-03-2022
Version Number	1

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

Identified uses	3D printer FDM filament
Uses advised against	None known

#### 1.3 Details of the supplier of the safety data sheet

Supplier	-
Company name	Azurefilm d.o.o.
Address	Orleška cesta 16, 6210 Sežana
Contact Person	Remco Katz
E-mail	compliance@azurefilm.com

#### 1.4 Emergency telephone number

+386 1 522 1293

Centre for clinical pharmacology and toxicology, University Medical Centre Ljubljana

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

The mixture has been assessed an/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

<b>Hazard pictograms</b>	None
<b>Signal words</b>	None
<b>Hazard statements</b>	The mixture does not meet the criteria for classification.

#### Precautionary statements

<b>Prevention</b>	Not available
<b>Response</b>	Not available
<b>Storage</b>	Not available
<b>Disposal</b>	Not available
<b>Supplemental label information</b>	None

#### 2.3 Other hazards

Not a PBT or vPvB substance or mixture.

### SECTION 3: Composition / information on ingredients

#### 3.2 Mixtures

Chemical name	%	CAS-No. / EC No.	REACH reg. No.	Index No.	Notes
Polylactic Acid (PLA) resin	100	Proprietary	-	-	

Classification: -

Other components below reportable levels 0

#### Composition comments

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

## SECTION 4: First aid measures

<b>General information</b>	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.
<b>4.1 Description of first aid measures</b>	
<b>Inhalation</b>	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.
<b>Skin contact</b>	If burned by contact with hot material, cool molten material adhering to skin as quickly as possible with water, and see a physician for removal of adhering material or treatment of burn. Do not peel polymer from the skin.
<b>Eye contact</b>	Not likely, due to the form of the product. If hot products contacts eye, flush with water for at least 15 minutes and seek medical attention immediately.
<b>Ingestion</b>	Not likely, due to the form of the product.
<b>4.2 Most important symptoms and effects, both acute and delayed</b>	Exposure may cause temporary irritation, redness, or discomfort.
<b>4.3 Indication of any immediate medical attention and special treatment needed</b>	Treat symptomatically.

## SECTION 5: Firefighting measures

<b>General fire hazards</b>	No unusual fire or explosion hazards noted.
<b>5.1 Extinguishing media</b>	
<b>Suitable extinguishing media</b> <b>Unsuitable extinguishing media</b>	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO <sub>2</sub> ). Do not use water jet as an extinguisher, as this will spread the fire.
<b>5.2 Special hazards arising from the substance or mixture</b>	During fire, gases hazardous to health may be formed.
<b>5.3 Advice for firefighters</b>	
<b>Special protective equipment</b> <b>Special firefighting procedures</b> <b>Specific methods</b>	Self-contained breathing apparatus and full protective clothing must be worn. Move containers from fire area if you can do so without risk. Use standard firefighting standards and consider hazards of other materials involved.

## SECTION 6: Accidental release measures

<b>6.1 Personal precautions, protective equipment and emergency procedures</b>	
<b>For non-emergency personnel</b>	Keep unnecessary personnel away. For personal protection see section 8 of the SDS.
<b>For emergency responders</b>	Keep unnecessary personnel away. For personal protection see section 8 of the SDS.
<b>6.2 Environmental precautions</b>	Avoid discharge into drains, water courses or onto the ground.
<b>6.3 Methods and material containment and cleaning up</b>	Sweep up or vacuum up spillage and collect in suitable container for disposal. For waste disposal, see section 13 of the SDS.
<b>6.4 Reference to other sections</b>	For personal protection see section 8 and for waste disposal see section 13 of the SDS.

## SECTION 7: Handling and storage

<b>7.1 Precautions for safe handling</b>	Observe good industrial hygiene practices.
<b>7.2 Conditions for safe storage, including any incompatibilities</b>	Store in tightly closed container. Store away from incompatible materials (see section 10 of the SDS)
<b>7.3 Specific end use(s)</b>	Not available.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

<b>Occupational exposure limits</b>	No exposure limits noted for ingredient(s).
<b>Biological limit values</b>	No biological exposure limits noted for ingredient(s).
<b>Recommended monitoring procedures</b>	Follow standard monitoring procedures.
<b>Derived no effect levels (DNELs)</b>	Not available.
<b>Predicted no effect concentrations (PNECs)</b>	Not available.

### 8.2 Exposure controls

<b>Appropriate engineering controls</b>	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.
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### Individual protection measures, such as personal protective equipment

<b>General information</b>	Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.
<b>Eye/face protection</b>	Wear safety glasses with side shields (or goggles).
<b>Skin protection</b>	
- <b>Hand protection</b>	Wear appropriate chemical resistant gloves.
- <b>Other</b>	Wear suitable protective clothing.
<b>Respiratory protection</b>	In case of insufficient ventilation, wear suitable respiratory equipment.
<b>Thermal hazards</b>	Wear appropriate thermal protective clothing, when necessary.
<b>Hygiene measures</b>	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.
<b>Environmental exposure controls</b>	Environmental manager must be informed of all major releases.

## SECTION 9: Physical and chemical properties

### 9.1 Information based on physical and chemical properties

<b>Appearance</b>	
<b>Physical state</b>	Solid
<b>Form</b>	Filament
<b>Color</b>	Color depends on product specification.
<b>Odor</b>	Slight
<b>Odor threshold</b>	Not available.
<b>pH</b>	Not available.
<b>Melting/freezing point</b>	150 - 180 °C (302 - 356 °F)
<b>Initial boiling point and boiling range</b>	Not available.
<b>Flash point</b>	Not available.
<b>Evaporation rate</b>	Not available.
<b>Flammability (solid, gas)</b>	Not available.
<b>Upper/lower flammability or explosive limits</b>	
<b>Flammability limit – Lower (%)</b>	Not available.
<b>Flammability limit – Upper (%)</b>	Not available.
<b>Vapor pressure</b>	Not available.
<b>Vapor density</b>	Not available.
<b>Relative density</b>	Not available.
<b>Solubility (water)</b>	Insoluble
<b>Partition coefficient</b>	Not available.
<b>Auto-ignition temperature</b>	Not available.
<b>Decomposition temperature</b>	> 205 °C (401 °F)
<b>Viscosity</b>	Not available.
<b>Explosive properties</b>	Not explosive
<b>Oxidizing properties</b>	Not oxidizing

### 9.2 Other information

<b>Density</b>	1,24 g/cm <sup>3</sup>
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## SECTION 10: Stability and reactivity

<b>10.1 Reactivity</b>	The product is stable and non-reactive under normal conditions of use, storage and transport.
<b>10.2 Chemical Stability</b>	Material is stable under normal conditions.
<b>10.3 Possibility of hazardous reactions</b>	No dangerous reaction known under conditions of normal use.
<b>10.4 Conditions to avoid</b>	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Contact with incompatible materials.
<b>10.5 Incompatible materials</b>	Strong oxidizing agents.
<b>10.6 Hazardous decomposition products</b>	No hazardous decomposition products are known.

## SECTION 11: Toxicological information

<b>General information</b>	Occupational exposure to the substance or mixture may cause adverse effects.
<b>Information on likely routes of exposure</b>	
<ul style="list-style-type: none"> <li>Inhalation</li> <li>Skin contact</li> <li>Eye contact</li> <li>Ingestion</li> </ul>	<ul style="list-style-type: none"> <li>Prolonged inhalation may be harmful.</li> <li>Based on available data, the classification criteria are not met.</li> <li>Based on available data, the classification criteria are not met.</li> <li>May cause discomfort if swallowed. However, ingestion is not likely to be a primary route of occupational exposure.</li> <li>Exposure may cause temporary irritation, redness, or discomfort.</li> </ul>
<b>Symptoms</b>	
<b>11.1 Information on toxicological effects</b>	
<ul style="list-style-type: none"> <li>Acute toxicity</li> <li>Skin corrosion/irritation</li> <li>Serious eye damage / irritation</li> <li>Respiratory sensitization</li> <li>Skin sensitization</li> <li>Germ cell mutagenicity</li> <li>Carcinogenicity</li> </ul>	<ul style="list-style-type: none"> <li>Unknown</li> <li>Based on available data, the classification criteria are not met.</li> <li>Based on available data, the classification criteria are not met.</li> <li>Based on available data, the classification criteria are not met.</li> <li>Based on available data, the classification criteria are not met.</li> <li>Based on available data, the classification criteria are not met.</li> <li>Based on available data, the classification criteria are not met.</li> <li>Based on available data, the classification criteria are not met.</li> </ul>
<b>Hungary. 26/2000 EüM Ordinance on protection against and preventing risk relating to exposure to carcinogens at work (as amended)</b>	
Not listed.	
<ul style="list-style-type: none"> <li>Reproductive toxicity</li> <li>Specific target organ toxicity / single exposure</li> <li>Specific target organ toxicity / repeated exposure</li> <li>Aspiration hazard</li> <li>Mixture versus substance information</li> <li>Other information</li> </ul>	<ul style="list-style-type: none"> <li>Based on available data, the classification criteria are not met.</li> <li>Based on available data, the classification criteria are not met.</li> <li>Based on available data, the classification criteria are not met.</li> <li>Based on available data, the classification criteria are not met.</li> <li>No information available.</li> <li>This product has no known adverse effect on human health.</li> </ul>

## SECTION 12: Ecological information

<b>12.1 Toxicity</b>	This product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.
<b>12.2 Persistence and degradability</b>	No data available on the degradability of any ingredients in the mixture.
<b>12.3 Bio accumulative potential</b>	Not expected to bioconcentrate or bioaccumulate.
<b>Partition coefficient n-octanol/water (log Kow)</b>	Not available.
<b>Bioconcentration factor (BCF)</b>	Not available.
<b>12.4 Mobility in soil</b>	No data available.
<b>12.5 Results of PBT and vPvB assessment</b>	Not a PBT or vPvB substance or mixture.
<b>12.6 Other adverse effects</b>	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

## SECTION 13: Disposal considerations

<b>13.1 Waste treatment methods</b>	
<ul style="list-style-type: none"> <li>Residual waste</li> <li>Contaminated packaging</li> </ul>	<ul style="list-style-type: none"> <li>Dispose in accordance with local regulations.</li> <li>Empty containers should be taken to an approved waste handling site for recycling or disposal.</li> </ul>
<b>EU waste code</b>	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
<b>Disposal methods/information</b>	Collect and reclaim or dispose in sealed containers at licensed waste disposal site.
<b>Special precautions</b>	Dispose in accordance with all applicable regulations.

## SECTION 14: Transport information

<b>ADR</b>	<b>14.1 – 14.6</b>	Not regulated as dangerous goods
<b>RID</b>	<b>14.1 – 14.6</b>	Not regulated as dangerous goods
<b>ADN</b>	<b>14.1 – 14.6</b>	Not regulated as dangerous goods
<b>IATA</b>	<b>14.1 – 14.6</b>	Not regulated as dangerous goods
<b>IMDG</b>	<b>14.1 – 14.6</b>	Not regulated as dangerous goods

## SECTION 15: Regulatory information

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

#### EU regulations

<b>Regulation (EC) No. 1005/2009</b>	Not listed.
<b>Regulation (EC) No. 0850/2004</b>	Not listed.
<b>Regulation (EU) No. 0649/2012 (Ann. I, pt. 1)</b>	Not listed.
<b>Regulation (EU) No. 0649/2012 (Ann. I, pt. 2)</b>	Not listed.
<b>Regulation (EU) No. 0649/2012 (Ann. I, pt. 3)</b>	Not listed.
<b>Regulation (EU) No. 0649/2012 (Ann. V)</b>	Not listed.
<b>Regulation (EC) No. 0166/2006 (Ann. II)</b>	Not listed.
<b>Regulation (EC) No. 1907/2006 (REACH 59(10))</b>	Not listed.

#### Authorizations

<b>Regulation (EC) No. 1907/2006 (REACH Ann. XIV)</b>	Not listed.
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#### Restrictions on use

<b>Regulation (EC) No. 1907/2006 (REACH Ann XVII)</b>	Not listed.
<b>Directive (EC) No. 2004/37</b>	Not listed.

#### Other EU regulations

<b>Directive (EU) No. 2012/18</b>	Not listed.
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#### 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.

#### National regulations

Follow national regulation on the protection of workers from the risks of exposure to carcinogens and mutagens at work, in accordance with Directive (EC) 2004/37, as amended.

### 15.2 Chemical safety

No Chemical Safety Assessment has been carried out.

## SECTION 16: Other information

<b>List of abbreviations</b>	Not available.
<b>References</b>	Not available.

#### 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 sections 2 to 15

None.

#### Revision information

None.

#### Training in information

Follow training instructions when handling this material.

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