



## Safety Data Sheet

According to EU Directive 1907/2006

**Product name: PLA-PRO**

Date of issue: 31-05-2018

Version: 1.2

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

- 1.1 Trade name:**  
PLA-PRO
- 1.2 Use of the product:**  
3Dprinter Filament
- 1.3 Supplier:**  
Ooznest Limited  
The Yard, Old Crown Lane,  
Brentwood, Essex, CM14 5TA  
United Kingdom  
Phone: 01277 523171  
Company Registration No: 09582219

### 2. Hazards identification

- 2.1 Classification of the substance or mixture**  
According to Regulation (EC) No 1272/2008 [CLP]  
No need for classification according to GHS criteria for this product
- 2.2 Label elements**  
None
- 2.3 Other hazards**  
This product does not meet the criteria for PBT or vPvB in accordance with Annex XIII of REACH.

### 3. Composition/information on ingredients

#### 3.2. Mixtures

Chemical name	EC-No	CAS-No	Weight %	Classification (1272/2008/EC)	REACH registration number
Polylactic acid	-	9051-89-2	>98%	-	Exempted
Additives	-	-	2%	-	-

### 4. First aid measures

#### 4.1 Description of first aid measures

##### General Advice

No hazards which require special first aid measures.

##### Eye Contact

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention immediately if symptoms occur.

##### Skin Contact

Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Get medical attention immediately if symptoms occur.

**Ingestion**

Rinse mouth. Get medical attention immediately if symptoms occur.

**Inhalation**

Move to fresh air. Get medical attention immediately if symptoms occur.

**Protection of first-aiders**

Use personal protective equipment. Avoid contact with skin, eyes and clothing.

**4.2 Most important symptoms and effects, both acute and delayed**

Symptoms: No acute and delayed symptoms and effects are observed.

**4.3 Indication of any immediate medical attention and special treatment needed**

Treatment: Treat according to symptoms

**5. Fire fighting measures**

**5.1 Extinguishing media**

Suitable extinguishing media:

Water spray, Foam, Dry powder, Carbon dioxide (CO<sub>2</sub>).

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**

Hazardous decomposition products formed under fire conditions: Carbon oxides, Acetaldehyde.

**5.3 Advice for fire fighters**

**Fire fighting measures**

Evacuate non-essential personnel Move containers from fire area if you can do it without risk. Keep containers and surroundings cool with water spray. Prevent fire extinguishing water from contaminating surface water or the ground water system.

**Special protective equipment for fire-fighters**

Wear self-contained breathing apparatus and protective suit.

**6. Accidental release measures**

**6.1 Personal precautions, protective equipment and emergency procedures**

Evacuate personnel to safe areas. Risk of slipping. Avoid dust formation. Avoid contact with skin, eyes and clothing. Do not breathe dust. Use personal protective equipment. Ensure adequate ventilation.

**6.2 Environmental precautions**

Should not be released into the environment. Prevent further leakage or spillage if safe to do so.

**6.3 Methods and materials for containment and cleaning up**

Avoid dust formation. Sweep up and shovel into suitable containers for disposal. Following product recovery, rinse area with water.

**6.4 Reference to other sections**

Refer to section (8)

**7. Handling and storage**

**7.1 Handling**

Handle in accordance with good industrial hygiene and safety practice. Avoid dust formation. Do not breathe dust. Avoid contact with skin, eyes and clothing. Ensure adequate



## Safety Data Sheet

According to EU Directive 1907/2006

### Product name: PLA-PRO

Date of issue: 31-05-2018

Version: 1.2

ventilation. Wear personal protective equipment. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling.

#### 7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Keep containers tightly closed in a cool, well-ventilated place. Protect from moisture / Water.

### 8. Exposure controls/personal protection

#### 8.1 Control parameters

##### Components with occupational exposure limits

Contains no substances with occupational exposure limit values.

##### Biological Limit Values

Not established.

##### PNEC

The obligation to register acc. to the REACH Regulation (EC) No 1907/2006 does not apply to polymers.

##### DNEL

The obligation to register acc. to the REACH Regulation (EC) No 1907/2006 does not apply to polymers.

#### 8.2 Exposure controls

##### Appropriate Engineering Controls

Ensure adequate ventilation, especially in confined areas. Keep at temperatures below 230 °C / 446 °F.

Individual protection measures, such as personal protective equipment

##### Eye Protection

Tightly fitting safety goggles.

##### Hand Protection

Protective gloves: Butyl rubber.

##### Skin and body protection

Long sleeved clothing.

##### Respiratory Protection

In case of insufficient ventilation wear suitable respiratory equipment. Recommended Filter Type P2 / FFP2.

##### Hygiene Measures

Handle in accordance to good industrial hygiene and safety practice. Workers must be trained in the proper use and handling of this product as required under applicable regulations. Do not eat, drink or smoke when using this product. Wash hands before breaks and immediately after handling the product. Wash contaminated clothing before re-use.

##### Environmental exposure controls

The product should not be allowed to enter drains, water courses or the soil

### 9. Physical and chemical properties

#### 9.1 Information on basic physical and chemical properties

Appearance	Solid Filament
Odour	Odourless
Colour	depending on product grade
Odour threshold	Odourless
pH	Not applicable
Melting/freezing point	150-230 °C / 302-446 °F
Initial boiling point and boiling range	Not applicable
Flash point	Not applicable
Evaporation rate	Not applicable
Flammability (solid, gas)	flammable
Upper/lower flammability or explosive limits	Not applicable
Vapour pressure	Not applicable
Vapour density	Not applicable
Relative density	Ca. 1.1-1.3 g/cm <sup>3</sup>
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	Not explosive
Oxidizing properties	Not oxidizing

## 10. Stability

**10.1 Reactivity:** No information available

**10.2 Chemical stability:**  
Decomposes in contact with hot water.

**10.3 Possibility of hazardous reactions:**  
No hazardous reactions observed under normal handling and storage conditions

**10.4 Conditions to avoid**  
Temperatures above 230 °C / 446 °F.

**10.5 Incompatible materials:**  
Moisture, Water.

**10.6 Hazardous decomposition products**  
Hazardous decomposition products formed under fire conditions: Carbon oxides, Acetaldehyde.

## 11. Toxicological information

### 11.1 Information on toxicological effects

Acute toxicity:

Ingestion: No known effect.

Skin Contact : No known effect.

Inhalation : No known effect.

Skin Corrosion/Irritation

No known effect.

Serious eye damage/irritation

No known effect.

Respiratory or skin sensitisation

No known effect.

Germ Cell Mutagenicity

Not known to cause heritable genetic damage.

Carcinogenicity

Contains no ingredient listed as a carcinogen.



## Safety Data Sheet

According to EU Directive 1907/2006

### Product name: PLA-PRO

Date of issue: 31-05-2018

Version: 1.2

#### Reproductive Toxicity

No known effect

#### STOT-single exposure

No known effect.

#### STOT-repeated exposure

No known effect.

#### Aspiration Hazard

No known effect.

## 12. Ecological information

### 12.1 Toxicity

Contains no substances known to be hazardous for the environment.

### 12.2 Persistence and degradability

Decomposes in contact with water. Industrially biodegradable.

### 12.3 Bio accumulative potential

No information available.

### 12.4 Mobility in soil

No information available.

### 12.5 Results of PBT and vPvB assessment

This substance is not considered to be persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB).

### 12.6 Other adverse effects

No information available..

## 13. Disposal considerations

### 13.1 Waste treatment methods

Waste from residues / unused products

Dispose of in accordance with local regulations.

Contaminated Packaging

Empty containers should be taken to an approved waste handling site for recycling or disposal.

## 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**  
Restrictions on use: None  
Other Regulations : No information available
- 15.2 Chemical Safety Assessment**  
No information available.

#### **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.*