

PLA Cosmic

Shine Bright—Print Brilliantly

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

1.1 Trade name

PLA Cosmic

1.2 Use of this product

3D printer filament

1.3 Supplier

Filamentive

Bradford Chamber Business Park

Bradford

BD4 8BX

Phone number: +44 (0) 33 33 66 0020

Email: info@filamentive.com

2. Hazards Identification

2.1 Classification

Product is not classified as hazardous for human life and health and for the environment.

2.2 Label Elements

None

2.3 Other Hazards

The substances contained in the product do not meet criteria for PBT or vPvB in accordance with Annex XIII of REACH Regulation. The product does not contain substances included in the list established in accordance with Article 59 (1) for having endocrine disrupting properties, or substances identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 (3) or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0.1 % by weight.

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3. Composition of Ingredients

3.1 Composition

PLA Cosmic is based on polylactide [CAS 26100-51-6] with addition of colouring agents. Product does not contain components which are classified as hazardous. Product does not contain components with European Union level exposure limit in the workplace.

4. First Aid Measures

4.1 Skin Contact

Rinse immediately with plenty of water for at least 15 minutes. If skin irritation persists, call a physician. Cool skin rapidly with cold water after contact with hot product. Do not peel filament from the skin. Consult a physician.

4.2 After Inhalation

Move to fresh air. Call a physician immediately.

4.3 On Ingestion

Rinse mouth with water. Do not induce vomiting without medical advice. Call a physician immediately.

4.4 On Eyes Contact

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Call a physician immediately. Avoid strong stream of water – risk of damage of the cornea. Contact an ophthalmologist.

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5. Firefighting Measures

5.1 Extinguishing media

Suitable extinguishing media:

Carbon dioxide, extinguishing powder, extinguishing foam, water spray.

Unsuitable extinguishing media:

Water jet – risk of fire propagation

5.2 Special hazards arising from the substance or mixture

During combustion release of carbon oxides and other harmful products of thermal decomposition may be produced. Do not inhale released fumes.

5.3 Advice for fire fighters

As in any fire, wear self-contained breathing apparatus, and full protective gear. Do not let extinguishing water to reach drainage system, surface water and groundwater.

5.4 Remark:

Risks of ignition (followed by flame propagation or secondary explosions) shall be prevented by avoiding accumulation of dust, e.g. on floors and ledges.

6. Accidental Release Measures

6.1 Personal precautions

Keep away from sources of ignition. Avoid dust formation. Avoid contact with skin and eyes. Ensure adequate ventilation. Avoid inhalation of fumes produced during the printing process.

6.2 Environmental precautions

Do not flush into surface and ground and ground water or sanitary sewer system.

6.3 Methods and materials for containment and cleaning up

Shovel into suitable container for disposal.

6.4 Reference to other sections

Refer to section (8)

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7. Handling and Storage

7.1 Handling

Avoid contact with skin and eyes. Employees should be protected from the possibility of contact with the molten filament during printing. Use personal protective equipment if necessary. In the process of printing, gases and vapours may be generated which may irritate the respiratory system, eyes and skin. It should be processed in a well-ventilated room.

7.2 Conditions for safe storage, including any incompatibilities

Store in cool, dry place away from naked flames. Protect from sunlight. Store in a dry place.

8. Exposure Controls / Personal Protection

8.1 Exposure Control

Appropriate Engineering Controls

Where possible, local exhaust ventilation and good general room ventilation should be used. Provide adequate exhaust ventilation in places of dust formation.

Individual protection measures, such as personal protective equipment

Eye Protection

Tightly fitting safety goggles if necessary (EN166).

Hand Protection

To operate a hot product, heat resistant gloves if necessary (EN374).

Skin and body protection

For transport, hot, molten product - heat-resistant protective clothing.

Respiratory Protection

It is not required under normal conditions of use. In the case of loose dust / fumes use a breathing apparatus.

Exposure Limits

None established.

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9. Physical and Chemical Properties

Appearance	Solid Filament
Odour	Odourless
Colour	Based on product grade
pH	No information available
Melting point	No information available
Initial boiling point and boiling range	No information available
Flash point	Not applicable
Flammability	Non-flammable mixture
Upper / lower flammability or explosive limits	No information available
Vapour pressure	No information available
Relative Vapour density	No information available
Solubility(ies)	No information available
Partition coefficient (n-octanol/water)	Not applicable
Auto-ignition temperature	No information available, product is not self-igniting
Decomposition temperature	No information available
Kinetic viscosity	Not applicable
Density and/or relative density	No information available
Particle characteristics	No information available

10. Stability

10.1 Reactivity:

None expected under conditions of normal use.

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

None expected under conditions of normal use.

10.4 Conditions to avoid

Protect from direct sunlight, sources of fire and heat, except from processes connected direct use of products.

10.5 Incompatible materials:

Oxidizing agents, Strong bases

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10.6 Hazardous decomposition products

Not known

11. Toxicological Information

11.1 Information on Toxicological Effects – Regulation (EC) No 1272/2008

Principle routes of exposure

Eye contact, skin contact, inhalation, ingestion.

Acute toxicity

Not determined.

Local effects

May cause eye/skin irritation. Product dust may be irritating to eyes, skin and respiratory system. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

Specific effects

May cause skin irritation and/or dermatitis. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea. Inhalation of dust may cause shortness of breath, tightness of the chest, a sore throat and cough. Burning produces irritant fumes.

Mutagenic effects

No data is available.

Reproductive toxicity

No data is available.

Carcinogenic effects

No data is available.

Target organ effects

Not determined.

Ingestion

No data is available.

Further information

No information available.

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12. Ecological Information

12.1 Ecotoxicity

It is not expected to be very toxic, but if ingested by birds or aquatic life, can cause adverse effects.

12.2 Persistence and degradability

No information available.

12.3 Bio accumulative potential

No information available.

12.4 Mobility in soil

No information available.

13. Disposal Considerations

Waste disposal is recommended in accordance with national and local regulations.

14. Transport Information

Not regulated.

15. Regulatory Information

Not regulated.

16. Other Information

The information contained in this safety data sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information provided is only intended as a guide to safe handling, use, processing, storage, transport, disposal and release, and no warranty or quality specification should be taken into account. The information applies only to a specific material and may not be relevant for such material used in combination with other materials or other processes, unless otherwise specified in the text. Although some hazards are described in this document, we cannot guarantee that these are the only hazards that exist.

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