

Safety Data Sheet

SECTION 1: Product and Manufacturer Identification

1.1. Product Identification

Trade name: Filament PLA MATT 1.75mm
Filament PLA MATT 2.85mm
Filament PLA MATT 3.00mm

1.2. Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

Relevant identified uses of the substance or mixture

Use: Thermal processing in 3D printing.

1.3. Details of the Supplier of the Safety Data Sheet

Manufacturer: Devil Design Ryszka Mateja Sp. J.
ul. Żwirki i Wigury 65
43-190 Mikołów, Poland
tax identification number: NIP 6351837318
e-mail: office@devildesign.com

SECTION 2: Hazards Identification

2.1. Classification of the Substance or Mixture

Classification according to the CLP regulation (Regulation (UE) No. 1272/2008)

Not classified as hazardous under Regulation (UE) No. 1272/2008.

The data are based on the known properties of (an) ingredient(s) of the mixture.

2.2. Label Elements

No product labelling is required.

2.3. Other Hazards

Swallowing hazard. Inhalation of gases and vapours generated during processing can irritate the respiratory system. Gases and vapours generated during processing can irritate the skin and eyes.

SECTION 3: Composition and Information on Ingredients

3.2. Mixtures

Chemical description

Composition:	Mixture of polyesters, mineral fillers, stabilising additives, dye
Common name:	PLA MATT, matt polylactide
Type of plastic:	Thermoplastic

The data are based on the properties of (an) ingredient(s) of the mixture. Depending on the dye used, they can vary slightly.

SECTION 4: First Aid Measures

4.1. Description of First Aid Measures

General:	No special precautions are needed.
Skin contact:	In case of contact with molten product, wash the place of contact immediately with plenty of cold water for at least 15 minutes. Consult a doctor.
Eye contact:	Rinse the eyes thoroughly with plenty of water for at least 15 minutes. Consult a doctor.
Aspiration:	Seek fresh air. Consult a doctor immediately.
Ingestion:	Consult a doctor immediately.

4.2. Most Important Symptoms and Effects, Both Acute and Delayed

None are known.

4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed

In case of any alarming symptom or accident, consult a doctor immediately.

SECTION 5: Firefighting Measures

5.1. Extinguishing Media

Suitable extinguishing media:

Firefighting foam

Water spray

For safety reasons unsuitable extinguishing agents:

Strong concentrated water jet

5.2. Special Hazards Arising From the Substance or Mixture

Hazardous combustion products:

Aldehydes

Carbon oxide (CO)

Carbon dioxide (CO₂)

The data are based on the properties of (an) ingredient(s) of the mixture. Depending on the dye used, they can vary slightly.

5.3. Advice for Firefighters

Personal protective equipment for firefighters:

Self-contained breathing apparatus

Complete protective clothing resistant to chemicals

Avoid contact with the product during firefighting operations.

SECTION 6: Accidental Release Measures

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

6.1.1. For Persons Other Than Emergency Personnel

Protective equipment:

When exposed to gases and vapours, use personal breathing protection.

Use personal protective equipment (see: SECTION 8).

Emergency procedures:

Remove the source of ignition. Avoid contact with the skin and eyes. Do not inhale gases and vapours.

6.1.2. For Emergency Personnel

When exposed to gases and vapours, use personal breathing protection.

Use personal protective equipment (see: SECTION 8).

6.2. Environmental Precautions

Do not allow the product to reach any sewage system or surface and ground waters. Prevent release to the environment.

6.3. Methods and Material for Containment and Cleaning Up

Pick up mechanically and put into a sealable container labelled for the storage of such substances/mixtures.

6.4. Reference to Other Sections

Personal protective equipment – see SECTION 8.
Waste handling – see SECTION 13.

SECTION 7: Handling and Storage

7.1. Precautions for Safe Handling

Handling of the substance or preparation:

The product should be processed in a well ventilated environment. Do not inhale gases and vapours liberated during product handling. Where required, an air extractor should additionally be used.

General work hygiene rules:

Do not eat or drink when handling the product, do not smoke in the working area. After contact with the product, wash the hands and face.

Instructions for protection against fire and explosion

Conditions and measures should be ensured to prevent accumulation of electrostatic charge.

7.2. Conditions for Safe Storage, Including Any Incompatibilities

Technical measures and storage conditions:

Store the product in a dry, shady place, at room temperature, away from food, in original packaging. Keep the product away from highly flammable substances. Due to quality reasons, protect against moisture, dust and dirt.

Storage together with other substances/preparations:

See: SECTION 10.4.

7.3. Specific End Use(s)

To prevent thermal decomposition, do not leave the product in the printer head after use.

SECTION 8: Exposure Controls/Personal Protection

8.1. Control Parameters

No data.

8.2. Exposure Controls

General protection rules:	The product should be processed in a well ventilated room; where required, an air extractor should additionally be used.
Eye and face protection:	Use goggles with temple protection.
Hand protection:	Wear protective gloves from leather or nitrile rubber.
Respiratory protection:	When exposed to dusts, gases or vapours, use respiratory protective equipment to prevent any inhalation thereof.

SECTION 9: Physical and Chemical Properties

9.1. Information on Basic Physical and Chemical Properties

State:	Solid
Appearance:	Wire, fibre
Colour:	When not dyed, the colour resembles beige, but it can be, depending on the dye used, pale yellow, red, grey, blue, pale green or black.
Odour:	Pungent during processing
Odour threshold:	No data
pH value:	Not determined
Melting point:	Not determined
Bolting point:	Not determined
Evaporation date:	Not determined
Flammability:	No data
Upper/lower flammability limits:	No data
Vapour pressure:	Not determined
Vapour density:	Not determined
Density:	No data
Solubility in water:	Insoluble

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Solubility in other liquids:	No data
n-octanol/water partition coefficient:	No data
Spontaneous ignition temperature:	No data
Thermal decomposition:	No data
Viscosity:	No data
Explosive properties:	Non-explosive
Oxidising properties:	No data
Combustion properties:	No data

Depending on the colour of the product, its physical and chemical properties can vary slightly.

9.2. Other Information

Surface tension:	No data
Thermal conductivity:	Not determined
Electrical conductivity:	Not determined

No danger of explosion.

SECTION 10: Stability and Reactivity

10.1. Reactivity

No data. See: SECTION 10.3.

10.2. Chemical Stability

Stable under recommended conditions of storage. See SECTION 7.2.

10.3. Possibility of Hazardous Reactions

Not known.

10.4. Conditions to Avoid

Avoid product overheating and moisture.

10.5. Incompatible Materials

No data.

10.6. Hazardous Decomposition Products

Carbon oxide (CO), CH₃CHO, CO₂, H₂O, CH₂O, cyclic oligomers, terephthalic acid, ethylene glycol.

SECTION 11: Toxicological Information

11.1. Information on Toxicological Effects

Acute toxicity: No data.

Skin irritation: Contact with hot product can cause burns.

Eye irritation: During processing, it can irritate the eyes.

Sensitisation: No sensitising effect under recommended storage conditions.

After ingestion: Do not put the product into the mouth. In case of ingestion, consult a doctor immediately.

SECTION 12: Ecological Information

12.1. Toxicity

Not determined.

12.2. Persistence and Degradability

Not determined.

12.3. Bioaccumulative Potential

Not determined.

12.4. Mobility in Soil

Not determined.

12.5. Results of PBT and vPvB Assessment

Not determined.

12.6. Other Adverse Effects

See: SECTION 6.2.

SECTION 13: Disposal Considerations

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13.1. Waste Treatment Methods

Product: Where practicable, waste should be recovered and recycled. Do not release waste into sewage systems. Neutralise waste in accordance with applicable local laws.

Packaging: Neutralise in accordance with applicable local laws.

SECTION 14: Transport Information

SECTIONS 14.1. to 14.5.

IMDG: Not applicable/Unrestricted

ICAO\IATA: Not applicable/Unrestricted

ADR\RID: Not applicable/Unrestricted

14.6. Special Precautions for Users

See: SECTIONS 6, 7 and 8.

14.7. Transport in Bulk According to Annex II of Marpol 73/78 and the IBC Code

No data.

SECTION 15: Regulatory Information

15.1. Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture

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15.2. Chemical Safety Assessment

The ingredients of the product have not been classified as harmful under Regulation (EU) 1272/2008.

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SECTION 16: Other Information

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