



## SAFETY DATA SHEET - MatterHackers PRO Series ESD-Safe PLA

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### Section 1: Identification of the Substance and Preparation

#### 1.1 Product Identifiers

Product Name: **PRO Series ESD-Safe PLA**

#### 1.2 Relevant Identified Uses

3D printing filament. Material for FDM/FFF additive manufacturing.

#### 1.3 Supplier Information

MatterHackers, Inc.  
20321 Valencia Circle  
Lake Forest, CA 92630  
Email: [support@matterhackers.com](mailto:support@matterhackers.com)  
Phone: +1 (949) 613-5838

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### Section 2: Hazard(s) Identification

#### 2.1 Classification of the Substance or Mixture

This product is **not classified as hazardous** under applicable regulations.

#### 2.2 Label Elements

Appearance: Solid monofilament  
Color: Black  
Odor: None

#### 2.3 Other Hazards

Mechanical handling may generate dust. Thermal decomposition may release irritating fumes.

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### Section 3: Composition / Information on Ingredients

**Description:** Polylactic Acid (PLA) with conductive carbon additives.

**Components:**

- PLA Resin (>90%)
- Conductive carbon additives (<10%)

No hazardous components present above regulatory thresholds.

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## **Section 4: First Aid Measures**

**Eye Contact:**

Flush thoroughly with water. Remove contact lenses if present. Seek medical attention if irritation persists.

**Skin Contact:**

Wash with soap and water.

If molten material contacts skin, immediately cool with cold water. Do not remove solidified polymer — seek medical attention.

**Inhalation:**

Move to fresh air. If irritation persists, obtain medical attention.

**Ingestion:**

Not expected due to product form. If swallowed, rinse mouth and drink water. Do not induce vomiting.

**Notes to Physician:**

Treat symptomatically.

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## **Section 5: Firefighting Measures**

**Suitable Extinguishing Media:**

Water spray, dry chemical, foam, or carbon dioxide (CO<sub>2</sub>).

**Special Protective Equipment:**

Firefighters should wear self-contained breathing apparatus and protective gear.

**Hazardous Combustion Products:**

Carbon monoxide, carbon dioxide, dense smoke, and irritating fumes.

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**Section 6: Accidental Release Measures****Personal Precautions:**

Avoid creating dust. For molten material, allow to cool before handling.

**Environmental Precautions:**

Prevent material from entering drains or waterways.

**Clean-Up Procedures:**

Sweep or vacuum to prevent slipping hazards. Dispose in accordance with local regulations.

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**Section 7: Handling and Storage****Safe Handling:**

Avoid dust accumulation. Use with adequate ventilation when processing. Avoid contact with molten polymer. Keep away from ignition sources.

**Storage:**

Store in a cool, dry place away from direct sunlight. Keep sealed to prevent moisture absorption.

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**Section 8: Exposure Controls / Personal Protection****Exposure Limits:**

No exposure limits established.

**Respiratory Protection:**

Not required under normal use. Use a NIOSH-approved respirator if fumes or dust are generated during processing.

**Eye Protection:**

Safety glasses with side shields recommended.

**Skin Protection:**

Protective gloves recommended when handling molten material.

**Engineering Controls:**

Use local exhaust ventilation when printing or machining.

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**Section 9: Physical and Chemical Properties**

- **Form:** Solid
  - **Appearance:** Black filament
  - **Odor:** None
  - **Melting/Softening Range:**  $T_g \approx 55^\circ\text{C}$
  - **Auto-Ignition Temperature:**  $>375^\circ\text{C}$
  - **Decomposition Temperature:**  $>250^\circ\text{C}$
  - **Flammability:** Combustible as dust; moderately flammable when exposed to flame
  - **Density:**  $>1.0\text{ g/cc}$
  - **Solubility in Water:** Insoluble
  - **Vapor Pressure:** Negligible
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**Section 10: Stability and Reactivity**

**Chemical Stability:** Stable under normal conditions.

**Reactivity:** None known.

**Conditions to Avoid:** Ignition sources, strong oxidizing agents.

**Hazardous Decomposition Products:** Phenols, carbon monoxide, carbon dioxide, smoke.

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**Section 11: Toxicological Information**

No known significant acute or chronic toxicity.  
Possible mild mechanical irritation to eyes or respiratory tract from dust.  
Thermal decomposition vapors may cause irritation.

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## **Section 12: Ecological Information**

No known ecological hazards.  
Material is not water-soluble and is expected to settle in aquatic environments.

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## **Section 13: Disposal Considerations**

Dispose of unused material in accordance with federal, state, and local regulations.  
Mechanical recycling is preferred when available.

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## **Section 14: Transport Information**

Not regulated by DOT, IMDG, or IATA.

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## **Section 15: Regulatory Information**

This product complies with applicable chemical inventory requirements.

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## **Section 16: Other Information**

Prepared for: MatterHackers, Inc.  
For questions, contact: [support@matterhackers.com](mailto:support@matterhackers.com)  
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