

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

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

# 1.1 Product Identifiers

Product Name: PRO Series ESD-Safe ABS

#### 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

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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: Slight

#### 2.3 Other Hazards

Mechanical handling may generate dust.

Thermal decomposition may release irritating or harmful fumes.

# **Section 3: Composition / Information on Ingredients**

Description: Acrylonitrile Butadiene Styrene (ABS) with conductive carbon additives.

## **Components:**

- ABS Resin (>90%)
- Carbon additives (<10%)

No hazardous components present above regulatory thresholds.

#### Section 4: First Aid Measures

# **Eye Contact:**

Flush thoroughly with water. 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 attempt to 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.

# **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, phenols, hydrogen cyanide.

### 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 according to local regulations.

## **Section 7: Handling and Storage**

#### Safe Handling:

Avoid dust accumulation. Use 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.

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

# **Exposure Limits:**

No exposure limits established.

# **Respiratory Protection:**

Not required for normal use.

Use a NIOSH-approved respirator if fumes or dust are generated.

# **Eye Protection:**

Safety glasses with side shields recommended.

#### **Skin Protection:**

Protective gloves recommended when handling molten material.

## **Engineering Controls:**

Use local exhaust ventilation during printing or machining.

# **Section 9: Physical and Chemical Properties**

• Form: Solid

• Appearance: Black filament

• Odor: Slight

• Softening Behavior: Gradual softening over a broad temperature range

• Auto-Ignition Temperature: >375°C

• Decomposition Temperature: >250°C

• **Flammability:** Combustible as dust; moderately flammable when exposed to flame

• Specific Gravity: >1.0

• Solubility in Water: Insoluble

• Vapor Pressure: Negligible

# **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, dense smoke, hydrogen cyanide.

# **Section 11: Toxicological Information**

No known significant acute or chronic toxicity.

Possible mild mechanical irritation from dust.

Thermal decomposition vapors may cause irritation or adverse effects.

## **Section 12: Ecological Information**

No known ecological hazards.

Material is insoluble and expected to settle in aquatic environments.

# **Section 13: Disposal Considerations**

Dispose of unused material according to federal, state, and local regulations. Mechanical recycling is preferred when available.

### **Section 14: Transport Information**

Not regulated by DOT, IMDG, or IATA.

# **Section 15: Regulatory Information**

This product complies with applicable chemical inventory requirements.

## **Section 16: Other Information**

Prepared for: MatterHackers, Inc.
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Last Updated: January 2025