

Material Safety Data Sheet

In accordance with 29 CFR 1910.1200, ANSI Z400.1-2004, and ISO 11014-1: 1994.

1. IDENTIFICATION

Product name: HIPS 3D Printer Filament

Product Use: For use in 3D printing machines

Supplier: Toner Plastics Inc., 35 Industrial Drive, East Longmeadow, MA 01028

Emergency telephone numbers (24 hours a day): (413) 525-2369

2. HAZARDS IDENTIFICATION

Most Important Hazards: None

Adverse Human Health Effects: None

Environmental Effects: None

Physical and Chemical: None

3. COMPOSITION / INFORMATION ON INGREDIENTS

Substance or Preparation: Mixture

Chemical Name: Propylene-Ethylene Copolymer

Content:

- CAS No. 9010-79-1: > 98% Propylene-Ethylene Copolymer
- Trade Secret: < 2%

Additional information: Does not contain dangerous substances above limits that need to be mentioned in this section according to applicable legislation.

4. FIRST AID MEASURES

Inhalation: In case of gases evolving from melted filament, move subject to fresh air. Treat symptomatically.

Skin Contact: Wash with water. In case of melted filament, wash affected skin area and clothing with plenty of (soap and) water. Seek medical advice.

Eye Contact: In case of small particles, flush with plenty of water for at least 15 minutes. Seek medical advice if any small particles still remain.

Ingestion: Rinse mouth with water. Seek medical advice if necessary. **DO NOT** induce vomiting.

5. FIRE-FIGHTING MEASURES

Extinguishing Media: Water, Foam, Dry chemical powder.

Special Fire-Fighting Procedure: Self-contained breathing apparatus.

Fire and Explosion Hazards: Potential dust explosion hazard.

6. ACCIDENTAL RELEASE MEASURES

Methods for Cleaning up: Recovery if not contaminated or disposal

Personal Precautions: Strands/string remaining on ground may cause slipping; provide adequate ventilation.

Environmental Precautions: Do not allow water contaminated with pellets or powder to enter any waterway, sewer or drain.

7. HANDLING AND STORAGE

Handling: Prevent fire around handling area. Maintain good housekeeping standards to prevent accumulation of dust.

Storage: Keep the materials in a cool dry place. Protect from direct sunlight, rain and violent temperature fluctuation.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational exposure limit values:

CAS No.	Designation	Type	Limit value
9010-79-1	Polypropylene Random Copolymer	USA: ACGIH: TWA	10 mg/m ³ (inhalable fraction) 3 mg/m ³ (respirable particles)

Ventilation: Necessary for fumes and gases when melting.

Personal Protection Eyes: Wear safety glasses or chemical goggles for general purpose.

Respiratory: Wear appropriate respiratory masks as needed.

Gloves: Necessary for handling melted material.

Note: It is the responsibility of the user to determine the adequacy of any protection or safety measures.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: String/strand/coil of plastic

Odor: Weak, characteristic

Color: White

Melting point: >120°C

Flammability: Not highly flammable
Flash point: No data available
Auto-ignition Temperature: No data available
Water solubility: Water negligible

10. STABILITY AND REACTIVITY

Reactivity: Flowing product can create electrical charge, resulting sparks may ignite dust or cause an explosion in some concentration ranges.

Stability: Stable under recommended storage conditions.

Explosive properties: In case of fine dust formation, danger of dust explosion.

Thermal Decomposition: Hazardous decomposition products formed under fire conditions: carbon monoxide, carbon dioxide, toxic fumes.

Conditions to avoid: Protect from excessive heat. Keep away from sources of ignition and heat. Avoid dust formation.

11. TOXICOLOGICAL INFORMATION

Acute toxicity (oral): Not classified

Acute toxicity (dermal): Not classified

Acute toxicity (inhalation): Not classified

Skin corrosion/irritation: Not classified

Eye damage/irritation: Not classified

Sensitization to the respiratory tract: Not classified

Skin sensitization: Not classified

Germ cell mutagenicity/Genotoxicity: Not classified

Carcinogenicity: Not classified

Reproductive toxicity: Not classified

Specific target organ toxicity (single exposure): Not classified

Specific target organ toxicity (repeated exposure): Not classified

Aspiration hazard: Not classified

12. ECOLOGICAL INFORMATION

Ecotoxicity

Aquatic toxicity: No evidence of aquatic toxicity.

Mobility in soil

No data available

Persistence and degradability

Biodegradation: Product is not readily biodegradable, the product is likely to persist in the environment.

Additional ecological information

General information: Do not allow to enter into ground-water, surface water or drains.

13. DISPOSAL CONSIDERATIONS

Controlled incineration or landfill according to local, state or national laws and regulations concerning health and pollution.

14. TRANSPORT INFORMATION

Not classified as a dangerous good under transport regulations.

15. REGULATORY INFORMATION

Not available

16. OTHER INFORMATION

Product name: HIPS 3D Printer Filament

Reason for revision: Created

Revision date: 3/11/2016

Recommended restrictions: None

Prepared by: Toner Plastics, Inc.

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NOTICE REGARDING MEDICAL APPLICATION RESTRICTIONS: The company does not recommend any of its products, including samples, for use: (A) in any application which is intended for any internal contact with human body fluids or body tissues (B) as a critical component in any medical device that supports or sustains human life; and (C) specifically pregnant women or in any applications designed specifically to promote or interfere with human reproduction.