

Material Safety Data Sheet

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

1. IDENTIFICATION

Product name: PETG 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: Substance

Chemical Name: Neopentylglycol-ethyleneglycol-terephthalate copolymer

Content:

- CAS No. 026780-49-4: 100% Neopentylglycol-ethyleneglycol-terephthalate copolymer

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. In case of gases evolving from melted filament of high temperature, flush with plenty of water for at least 15 minutes. Seek medical advice if necessary.

Ingestion: Induce vomiting. Rinse mouth with water. Seek medical advice if necessary.

5. FIRE-FIGHTING MEASURES

Extinguishing Media: Water, Foam, Dry chemical powder

Special Fire-Fighting Procedure: Self-contained breathing apparatus

Fire and Explosion Hazards: None

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: Gather small particles thoroughly to avoid birds or fish taking from draining water.

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: Polyethylene Terephthalate as particulates not otherwise classified (PNOC)

OSHA: 10mg/m³, 8 Hr. TWA (total dust)

5mg/m³, 8 Hr. TWA (respirable fraction)

ACHIH: 10mg/m³, 8 Hr. TWA (inhalable particulates)

5mg/m³, 8 Hr. TWA (respirable particulates)

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: Varies
Melting point: not available
Flammability: Not highly flammable
Flash point: not available
Auto-ignition Temperature: N/A
Water solubility: Not soluble
Specific Gravity: not available

10. STABILITY AND REACTIVITY

Reactivity: N/A
Stability: Stable under recommended storage conditions.
Explosive properties: In case of fine dust formation, danger of dust explosion.
Thermal Decomposition: Approximately 626°F, to avoid thermal decomposition do not overheat.
Conditions to avoid: Protect from excessive heat. Keep away from sources of ignition and heat. Avoid dust formation.

11. TOXICOLOGICAL INFORMATION

Polyethylene Terephthalate animal testing indicates:

- No carcinogen, mutagenic, developmental, or reproductive effects
- No adverse effects from short term exposure by inhalation or ingestion

Polyethylene Terephthalate patch tests with humans resulted in no skin irritation on sensitization.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Aquatic toxicity: Expected to be >100mg/L and >10mg/L chronic 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

Like most thermoplastics, this product may be recyclable where facilities exist. Can be landfilled or incinerated, when in compliance with local regulations. Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by 40 CFR 261.31

14. TRANSPORT INFORMATION

Not classified as a dangerous good under transport regulations.

15. REGULATORY INFORMATION

Not available

16. OTHER INFORMATION

Product name: PETG 3D Printer Filament

Reason for revision: 4/13/2016

Revision date: NA

Recommended restrictions: None

Prepared by: Toner Plastics, Inc.

The information herein is given in Good faith, but no warranty, express or implied, is made. Consult the company for further information.

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.