



Health	1
Fire	1
Reactivity	0
Personal Protection	

Material Safety Data Sheet

Section 1: Chemical Product and Company Identification

Contact Information:

Generic Name: FTG PETG+

Filabot

Chemical Name: Copolyester

305 South Main St. Barre, VT 05641 USA

Contact@Filabot.com

802-505-6772

Molecular Formula: N/A **Molecular Weight:** N/A

Specific use: Mono Filament for FFF 3D Printing

Product Classification: PET Copolyester

Section 2: Composition and Information on Ingredients

Composition of Ingredients

There is NO chemical present in this product at a concentration of 0.1% or more classified as a carcinogen by IARC, NTP or OSHA

Physical Properties

Melting Point: 446 F (220 C)

Appearance: Colorless

Specific Gravity: 1.27 / 23°C

Tg: >76C

Base polymer Proprietary

Water Solubility: N/A

Odor: No noticeable odor

Percent Volatiles: Nil

Section 3: Hazards Identification

In the solid state, they are not hazardous.

During processing when converted to the molten state, normal precautions for the handling of hot, sticky, fluid melts should be observed.

HMIS® Hazard Ratings: Health - 1, Flammability -1, Chemical Reactivity - 0

Section 4: First Aid Measures

Eye Contact: Flush with water for approximately 15 minutes.

Skin Contact: Mechanical or thermal (molten state only) - flush with cool water immediately.

Inhalation: Dermatitis (dust only) - flush with water. Seek medical attention if severe reaction occurs

Ingestion (Swallowing): Low Toxicity, not a probable route of exposure

Section 5: Fire and Explosion Data

Flash Point: N.A. **LEL:** N.A. **UEL:** N.A.

Extinguishing Media: Water, Foam, Carbon Dioxide, Dry Chemical.

Unusual Fire and Explosion Hazards: Smoke and noxious gases (carbon monoxide, hydrocarbons) evolved upon burning.

Special Fire Fighting Procedures: Self-contained breathing apparatus in any closed space.

Section 6: Accidental Release Measures

Steps to be Taken in Case Material is Released or Spilled: Sweep up and discard.

Waste Disposal Method: Landfill in accordance with local, state and federal laws.

Section 7: Handling and Storage

Respiratory Protection: None required.

Ventilation : Good room ventilation.

Protective Gloves: Required if contact with molten material or newly molded polymer parts.

Eye Protection: Safety glasses for good work practices when dealing with molten material.

Other Protective Equipment: Clean work clothing

Section 8: Exposure Controls/Personal Protection

Steps to be Taken in Case Material is Released or Spilled: Sweep up and discard.

Waste Disposal Method: Landfill in accordance with local, state and federal laws.

Respiratory Protection: None required.

Ventilation : Good room ventilation.

Protective Gloves: Required if contact with molten material or newly molded polymer parts.

Eye Protection: Safety glasses for good work practices when dealing with molten material.

Other Protective Equipment: Clean work clothing.

Section 9: Physical and Chemical Properties

Composition of Ingredients

There is NO chemical present in this product at a concentration of 0.1% or more classified as a carcinogen by IARC, NTP or OSHA

Physical Properties

Melting Point: 446 F (220 C)

Appearance: Colorless

Specific Gravity: 1.27 / 23°C

Tg: >76C

Base polymer Proprietary

Water Solubility: N/A

Odor: No noticeable odor

Percent Volatiles: Nil

Section 10: Stability and Reactivity Data

Stability: Stable.

Incompatibility (Materials to Avoid): None known.

Hazardous Polymerization: Will not occur.

Conditions to Avoid: Temperatures over 550°F may result in thermal decomposition.

Section 11: Toxicological Information

Toxicity data are not available unless listed below.

Oral LD-50:(male rat) >3,200 mg/kg(highest dose tested)

Oral LD-50:(male mouse) >3,200 mg/kg(highest dose tested)

Dermal LD-50: (guinea pig) > 1,000 mg/kg

Skin Irritation (guinea pig) slight irritation

Eye Irritation (rabbit, unwashed eyes) slight

Eye Irritation (rabbit, washed eyes) slight

Skin Sensitization: (guinea pig) none

Section 12: Ecological Information

Ecotoxicity: Ecotoxicity in water (LC50): 2160 mg/l 96 hours [Fish (Fathead Minnow)].

BOD5 and COD: Not available.

Products of Biodegradation:

Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

Toxicity of the Products of Biodegradation: The products of degradation are less toxic than the product itself.

Special Remarks on the Products of Biodegradation: Not available.

Section 13: Disposal Considerations

Waste Disposal Method: Landfill in accordance with local, state and federal laws.

Section 14: Transport Information

Marine pollutant components: none unless listed below

DOT (USA): Class not regulated

ICAO Status: Class not regulated

IMDG Status: Class not regulated

Section 15: Other Regulatory Information

Under regulations administered by the U. S. Food and Drug Administration (FDA), , "FTG PETG+" Copolyester may lawfully be used as articles or components of articles intended for use in contact with food subject to provisions of 21 CFR 177.1315 and 21 CFR 174. "FTG PETG+" Copolyester, as supplied to Filabot, complies with the compositional and inherent viscosity requirements of the FDA regulations at 21 CFR 177.1315 (b)(1). The specifications of 21 CFR 177.1315(b)(1) clear the following conditions of use for non-oriented copolymers: hot-fill temperatures not to exceed 180°F (82.2°C) for contact with foods including foods containing up to 25% aqueous alcohol by volume, excluding carbonated beverages and beer; storage temperatures not to exceed 120°F (48.9°C); and, no thermal treatment in container. It is the responsibility of our customers to determine that their use of our product(s) is safe, lawful, and technically suitable in their intended applications.

Section 16: Other Information

Created: 02-15-17

Last Updated: 02-15-17

The information in this Safety Data Sheet (SDS) is provided in good faith and believed to be accurate. This SDS contains a general summary of hazards known to Filabot, but does not purport to describe every hazard that exists. Filabot expects each customer or user of its products (each, a "User") to study this SDS carefully and consult appropriate expertise to become aware of any hazards associated with Filabot products. FILABOT MAKES NO WARRANTY, EXPRESS OR IMPLIED, REGARDING THE INFORMATION CONTAINED HEREIN OR ITS PRODUCTS, INCLUDING BUT NOT LIMITED TO ANY WARRANTY AS TO ACCURACY OR COMPLETENESS OF INFORMATION, OR ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE..