

Safety Data Sheet

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

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

Product Name: 3D-Fuel PETG **Product Code:** PETG

Product Use: A monofilament designed for 3D printing

Supplier: 3DomFuel Inc., 2222 7th Ave N, Fargo, ND, 58102 United States

Customer Information Center: (844) 333-3616 / sales@3dfuel.com

Emergency Telephone Numbers (24 hours a day): (844) 333-3616

2. HAZARDS IDENTIFICATION

Emergency Overview

WARNING! May cause eye/skin irritation. Burning produces obnoxious and toxic fumes. Avoid contact with skin and eyes. Avoid formation of dust and aerosols

Appearance: Translucent monofilament in its natural state.

Color: Clear or translucent unless modified with pigmentation

Physical State: Solid

Potential health effects: If small particles are generated during further processing, handling or by other means, may form combustible dust concentrations in air.

Eye contact: Contact with eyes may cause irritation.

Skin Contact: Substance may cause slight skin irritation.

Ingestion: Ingestion may cause gastrointestinal irritation, nausea, vomiting, and diarrhea.

Inhalation: Inhalation of dust may cause shortness of breath, tightness of the chest, and a sore throat and cough. Low hazard for usual industrial or commercial handling.

Target Organ Effects: No information available

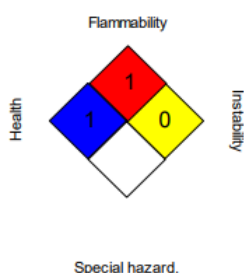
Sensitization: No information available

Specific Hazards: No information available

Flammability: Fine dust dispersed in air may ignite

Environmental Precautions: P501 Dispose of contents/ container to an approved waste disposal plant.

NFPA 704:



HMIS® IV:

HEALTH	/ 1
FLAMMABILITY	1
PHYSICAL HAZARD	0

HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "/" represents a chronic hazard, while the "1" represents the absence of a chronic hazard.

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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.

1. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	Concentration (%w/w)	CAS-No.
Polymer	100	Proprietary

2. FIRST AID MESAURES

Emergency Telephone Numbers (24 hours a day): (844) 333-3616

Eye Contact: In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Skin Contact: Wash off with soap and water. If symptoms persist, call a physician. Cool skin rapidly with cold water after contact with molten material. Do not peel solidified product off the skin. Burns must be treated by a physician.

Inhalation: Move to fresh air. Treat symptomatically. Call a physician if symptoms persist.

Ingestion: Drink water as a precaution. Never give anything by mouth to an unconscious person. Do not induce vomiting without medical advice. Call a physician immediately.

Most important symptoms & effects, both acute and delayed: The molten product can cause serious burns.

Notes to physician: Treat symptomatically.

3. FIRE FIGHTING MEASURES

Hazardous combustion products: No hazardous combustion products are known.

Unsuitable extinguishing media: Do not use a solid water stream as it may scatter and spread fire.

Suitable Extinguishing Media: Water spray. Dry chemical. Carbon dioxide (CO₂).

Special Protective Equipment for Firefighters: Wear an approved positive pressure self-contained breathing apparatus in addition to standard fire-fighting gear.

Specific hazards during fire-fighting: Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.

Other Information: Minimize dust generation and accumulation.

4. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective equipment and emergency procedures: Wear appropriate personal protective equipment.

Environmental Precautions: Avoid release to the environment. Local authorities should be advised if significant spillages cannot be contained.

Methods for Cleaning up: Sweep up and shovel into suitable containers for disposal.

5. HANDLING AND STORAGE

Safe Handling Advice: Wash thoroughly after handling. Use only in area provided with appropriate exhaust ventilation. Minimize dust generation and accumulation.

Storage: Keep tightly closed. Store in cool place. Keep at temperatures below 122F (50C). No special restrictions on storage with other products.

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6. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters: Contains no substances with occupational exposure limit values.

Engineering Measures: Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Personal Protective Equipment:

Eye Protection: Safety glasses. Wear a face shield when working with molten material.

Skin and Body Protection: Wear suitable protective clothing.

Respiratory Protection: Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines. Wear respiratory protection when its use is identified for certain contributing scenario.

Hand Protection: Preventative skin protection. Wear suitable gloves. When handling hot material, use heat resistant gloves.

Hygiene Measures: Handle in accordance with good industrial hygiene and safety practice.

Protective measures: Ensure that eye flushing systems and safety showers are located close to the working place.

7. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear, translucent, opaque monofilament

Color: Clear, Translucent, Opaque

Physical State: Solid

Odor: Slight

pH: Not determined

Softening point: > 212 °F / > 100 °C

Flammability: May form combustible dust concentrations in air during processing, handling or other means.

Self-ignition: 849 °F / 454 °C. Method: ASTM E659.

Vapor Pressure: Not determined

Vapor Density: Not determined

Evaporation Rate: Not determined

Relative Density: > 1 (estimated)

Boiling Point/Range: Not determined

Decomposition Temperature: 482F (250C)

Melting Point/Range: Not determined

Water Solubility: Negligible

Decomposition temperature: Thermal stability not tested. Low stability hazard expected at normal operating temperatures.

Any other properties not listed: No data available / not determined.

8. STABILITY AND REACTIVITY

Reactivity: None reasonably foreseeable.

Chemical stability: Stable under normal conditions.

Conditions to Avoid: Minimize dust generation and accumulation.

Material to Avoid: Strong oxidizing agents.

Hazardous Decomposition Products: Carbon monoxide (CO). Carbon dioxide (CO₂).

Polymerization: Not applicable

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9. TOXICOLOGICAL INFORMATION

Principle Routes of Exposure: Eye contact. Skin contact. Inhalation. Ingestion.

Acute Toxicity: Not classified based on available information.

Local Effects: Not classified based on available information.

Long Term Toxicity: Not classified based on available information.

Specific Effects: Not classified based on available information.

Mutagenic Effects: Not classified based on available information.

Reproductive Toxicity: No data is available on the product itself

Carcinogenic Effects: Not classified based on available information.

Target Organ Effects: Not classified based on available information.

Skin or Eye Contact: The molten product can cause serious burns.

Ingestion: None known

Other Typical Toxicological Characteristics: Not classified based on available information.

IARC No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

NTP No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

10. ECOLOGICAL INFORMATION

Mobility: NO data available

Bioaccumulation: NO data available

Ecotoxicity Effects: NO data available

11. DISPOSAL CONSIDERATIONS

Waste from Residues/Unused Products: Dispose of in accordance with local regulations.

THE COMPANY HAS NO CONTROL OVER THE MANAGEMENT PRACTICES OR MANUFACTURING PROCESSES OF PARTIES HANDLING OR USING THIS MATERIAL. THE INFORMATION PRESENTED HERE PERTAINS ONLY TO THE PRODUCT AS SHIPPED IN ITS INTENDED CONDITION AS DESCRIBED IN SDS SECTION 2 (Composition/Information on Ingredients).

Contaminated Packaging: Empty remaining contents. Do not re-use empty containers. Empty containers should be transported/delivered using a registered waste carrier to local recyclers for disposal.

12. TRANSPORT INFORMATION

U.S. Department of Transportation (DOT) / 49 CFR:

Proper shipping name: Not regulated as a hazardous material

IMDG:

Proper Shipping Name: None Hazard Class: Not regulated

UN/Id No.: None packing group: None

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Product Name: 3D-Fuel PETG

Product Code: PETG

Revision Number: 01

Revision Date: 09/30/2020

Print Date: 09/30/2020

ICAO/IATA/IATR:

Proper Shipping Name: None Hazard Class: Not regulated.

Packing Group: None

13. REGULATORY INFORMATION

(Not meant to be all inclusive – selected regulations represented)

NOTICE: The information herein is presented in good faith and believed to be accurate as of the print date shown above. However, no warranty, express, or implied is given. Regulatory requirements are subject to change and may differ from one location to another; it is the buyer's responsibility to ensure that its activities comply with federal, state or provincial, and local laws. The following specific information is made for the purpose of complying with numerous federal, state or provincial, and local laws and regulations. See other sections for health and safety information.

EPCRA - Emergency Planning and Community Right-to-Know

CERCLA Reportable Quantity - This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity - This material does not contain any components with a section 304 EHS RQ.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity - This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards: Combustible dust

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

California Prop. 65

This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

The ingredients of this product are reported in the following inventories:

DSL: All components of this product are on the Canadian DSL
AICS: On the inventory, or in compliance with the inventory
ENCS: On the inventory, or in compliance with the inventory
ISHL: On the inventory, or in compliance with the inventory
KECI: On the inventory, or in compliance with the inventory
PICCS: On the inventory, or in compliance with the inventory
IECSC: On the inventory, or in compliance with the inventory
TCSI: On the inventory, or in compliance with the inventory
TSCA: All substances listed as active on the TSCA inventory

TSCA list - No substances are subject to a Significant New Use Rule. No substances are subject to TSCA 12(b) export notification requirements.

14. OTHER INFORMATION

Label Information: 3D-Fuel PETG

Product Code: PETG

Reason for Revisions: Not applicable

Revision Date: 09-30-2020

Print Date: 09-30-2020

Recommended Restrictions: None

Prepared by: 3DomFuel Inc.

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