

PREMIUM 3D FILAMENTS—PETG

PETG

# Safety Data Sheet

## Section 1: Identification

### Product Identifier and Other Means of Identification

**Product Name:** Premium 3D Filaments-PETG**SDS Code:** PETG**Related Part #** PETG17NA1, PETG17NA5, PETG17WH1, PETG17WH5, PETG17BK1, PETG17BK5, PETG17RE1, PETG17RE5, PETG17BL1, PETG17BL5

### Recommended Use and Restriction on Use

**Use:** Filament for 3D printing**Uses Advised Against:** Not available

### Details of Manufacturer or Importer

**Manufacturer**MG Chemicals  
1210 Corporate Drive  
Burlington, Ontario L7L 5R6  
CANADAMG Chemicals (Head Office)  
9347-193 Street  
Surrey, British Columbia V4N 4E7  
CANADA**☎** +1-800-340-0772**☎** +1-905-331-1396**FAX** +1-800-340-0773**FAX** +1-905-331-2682**E-MAIL** [support@mgchemicals.com](mailto:support@mgchemicals.com)**E-MAIL** [info@mgchemicals.com](mailto:info@mgchemicals.com)**WEB** [www.mgchemicals.com](http://www.mgchemicals.com)**E-MAIL** (Competent Person): [sds@mgchemicals.com](mailto:sds@mgchemicals.com)

### Emergency Phone Number

**For hazardous material incidents ONLY**—leaks, spills, fires, exposures or accidentsUSA or CANADA: Call Verisk 3E at **+1-866-519-4752** or **+1-760-476-3962**

(Service access code: 335388)

**For emergencies involving the transport of dangerous goods;** 24/7 serviceCANADA—Call CANUTEC collect at **+1-613-996-6666** or **\*666** on cellular phones

**PREMIUM 3D FILAMENTS—PETG**
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**Section 2: Hazard(s) Identification**
**Classification of Hazardous Chemical**
**GHS Categories**

Non-hazardous—does not meet WHMIS 2015 or OSHA HCS 2012 classification criteria.

**Label Elements**

<b>Signal Word</b>	<i>None Mandated</i>
<b>Pictograms</b>	<b>Hazard Statements</b>
<i>None mandated</i>	None

**Hazards Not Otherwise Classified**

Not applicable.

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

<b>CAS #</b>	<b>Chemical Name</b>	<b>%(weight)</b>
25038-91-9 & 25640-14-6	polyethylene terephthalate glycol <sup>a)</sup>	>99%

a) Non-hazardous component

**Section 4: First-Aid Measures**

<i>Exposure Condition</i>	<i>GHS Code/Symptoms/Precautionary Statements</i>
<b>IF IN EYES</b>	P305 + P351 + P338
<b>Immediate Symptoms</b>	<i>mild irritation</i>
<b>Response</b>	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
<b>IF SWALLOWED</b>	P301 + P310
<b>Immediate Symptoms</b>	<i>May cause gastrointestinal blockage.</i>
<b>Response</b>	IF SWALLOWED: Rinse mouth. Seek medical advice if feeling unwell.

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<b>IF ON SKIN</b>	P302 + P352, P332 + P313, P314, P362 + P364
<b>Immediate Symptoms</b>	<i>None known or expected</i>
<b>Response</b>	No action are required or suggested.
<b>IF INHALED</b>	P304 + P340, P312, P308 + P313
<b>Immediate Symptoms</b>	<i>None known or expected</i>  <i>Exposure to heated vapors or fumes: eye irritation, upper respiratory tract irritation, nausea, headaches</i>
<b>Response</b>	Remove person to fresh air and keep comfortable for breathing.

**Section 5: Fire-Fighting Measures**

<b>Extinguishing Media</b>	In case of fire: Use dry chemical, carbon dioxide, chemical foam, or water spray to extinguish.  If in a molten state, do not apply direct water stream.
<b>Specific Hazards</b>	See combustion products.
<b>Combustion Products</b>	Produces carbon oxides (CO,CO <sub>2</sub> )
<b>Fire-Fighter</b>	Wear self-contained breathing apparatus and full fire-fighting turn-out gear.

**Section 6: Accidental Release Measures**

<b>Personal Protection</b>	See personal protection recommendations in Section 8.
<b>Precautions for Response</b>	Not applicable
<b>Environmental Precautions</b>	Not applicable
<b>Containment Methods</b>	Not applicable
<b>Cleaning Methods</b>	Reclaim material if possible. Wash spill area with soap and water.
<b>Disposal Methods</b>	May be disposed of as regular waste.

**PREMIUM 3D FILAMENTS—PETG****PETG****Section 7: Handling and Storage**

<b>Prevention</b>	Avoid breathing fumes or dust.
<b>Handling</b>	Wash hands thoroughly after handling.
<b>Storage</b>	Not applicable

**Section 8: Exposure Controls/Personal Protection****Substances with Occupational Exposure Limit Values**

This product contains no substances with occupational exposure limits.

**Engineering Controls**

<b>Ventilation</b>	General ventilation is adequate for normal use; keep overall exposure as low as possible.
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**Personal Protective Equipment**

<b>Eye protection</b>	Wear appropriate protective eyeglasses or chemical safety goggles. <b>Recommendation:</b> Ensure that glasses have side shields for lateral protection.
<b>Skin Protection</b>	No skin protection required.
<b>Respiratory Protection</b>	For over-exposures to dust, vapors or fumes, wear respirator such as a half-mask respirator with organic vapor cartridges. For exposure to combustion products, use a positive-pressure, air-supplied respirator or a self-contained breathing apparatus. <b>RECOMMENDATION:</b> Consult your local safety supply store to ensure that your respirator has a NIOSH (U.S.) approved filter cartridges appropriate for the ingredients listed in Section 3. The respirator should be fitted to the employee by a professional.

**General Hygiene Considerations**

Wash hands thoroughly with water and soap after handling.

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**Section 9: Physical and Chemical Properties**

<b>Physical State</b>	Solid	<b>Lower Flammability Limit</b>	Not applicable
<b>Appearance</b>	Variable colors	<b>Upper Flammability Limit</b>	Not applicable
<b>Odor</b>	Faint to odorless	<b>Vapor Pressure @20 °C</b>	Not available
<b>Odor Threshold</b>	Not available	<b>Vapor Density</b>	Not applicable
<b>pH</b>	Not available	<b>Relative Density @25 °C</b>	1.27
<b>Freezing/Melting Point</b>	≥100 °C [≥212 °F]	<b>Solubility in Water</b>	Insoluble
<b>Initial Boiling Point</b>	Not available	<b>Partition Coefficient n-octanol/water</b>	Not available
<b>Flash Point</b>	Not applicable	<b>Auto-ignition Temperature</b>	Not available
<b>Evaporation Rate</b>	Not available	<b>Decomposition Temperature</b>	Not available
<b>Flammability</b>	Non Flammable	<b>Viscosity @40 °C</b>	Not applicable

**Section 10: Stability and Reactivity**

<b>Reactivity</b>	Not available
<b>Chemical Stability</b>	Chemically stable at normal temperatures and pressures
<b>Conditions to Avoid</b>	Incompatible substances, open flames, and temperatures above 300 °C [572 °F]
<b>Incompatibilities</b>	None known
<b>Polymerization</b>	Will not occur
<b>Decomposition</b>	Will not decompose under normal conditions. For thermal decomposition, see combustion products in Section 5

**PREMIUM 3D FILAMENTS—PETG****PETG****Section 11: Toxicological Information****Summary of Effects and Symptoms by Routes of Exposure**

<b>Eyes</b>	Under normal conditions, no effect known or expected. If exposed to heated vapors or fumes: may cause eye irritation.
<b>Skin</b>	Under normal conditions, no effect known or expected. If exposed to heated vapors or fumes: may cause skin irritation.
<b>Inhalation</b>	Under normal conditions, no effect known or expected. If exposed to heated vapors or fumes: may cause upper respiratory tract irritation, headaches, nausea
<b>Ingestion</b>	May cause gastrointestinal blockage.
<b>Chronic</b>	No effect known

**Acute Toxicity (Lethal Exposure Concentrations)**

<b>Chemical Name</b>	<b>LD50 oral</b>	<b>LD50 dermal</b>	<b>LC50 inhalation</b>
polyethylene terephthalate polymer	>5 g/kg Rat	Not established	Not established

*Note:* Toxicity data from the RTECS<sup>2</sup> and ECHA database were consulted. The data from supplier SDS were also consulted.

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**PREMIUM 3D FILAMENTS—PETG****PETG****Other Toxicological Effects**

<b>Skin corrosion/irritation</b>	Based on available data, the classification criteria are not met.
<b>Serious eye damage/irritation</b>	Based on available data, the classification criteria are not met.
<b>Sensitization</b> (allergic reactions)	Based on available data, the classification criteria are not met.
<b>Carcinogenicity</b> (risk of cancer)	None of the ingredients are classified or listed as a carcinogen by IARC, ACGIH, CA Prop 65, or NTP.
<b>Mutagenicity</b> (risk of heritable genetic effects)	Based on available data, the classification criteria are not met.
<b>Reproductive Toxicity</b> (risk to sex functions)	Based on available data, the classification criteria are not met.
<b>Teratogenicity</b> (risk of fetus malformation)	Based on available data, the classification criteria are not met.
<b>STOT-single exposure</b>	Based on available data, the classification criteria are not met.
<b>STOT-repeated exposure</b>	Based on available data, the classification criteria are not met.
<b>Aspiration hazard</b>	Not applicable—solid substance

**Section 12: Ecological Information**

The IMDG Code criteria, the raw-material safety data sheets, and supporting data from the European Chemical Agency database (<http://echa.europa.eu>) were used to support the classification.

The component substances are not classifiable as an environmental toxicant.

**Acute Ecotoxicity**

No data available.

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**PREMIUM 3D FILAMENTS—PETG****PETG****Chronic Ecotoxicity**

Available data doesn't give rise to classification as a chronic ecotoxicant.

**Biodegradability**

Not readily biodegradable

**Bioaccumulation**

No data available

**Other Effects**

None known

**Section 13: Disposal Information**

Dispose of contents in accordance with all local, regional, national, and international regulations.

**Section 14: Transport Information****Ground**

**Refer to TDG** (Canadian Transportation of Dangerous Goods regulations) and **USA DOT 49 CFR** (Parts 100 to 185) **Regulations.**

Not Regulated	
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**Air**

**Refer to ICAO-IATA Dangerous Goods Regulations.**

Not Regulated	
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**Sea**

**Refer to IMDG regulations.**

Not Regulated	
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**Section 15: Regulatory Information**

**Canada**

**Domestic Substance List (DSL) / Non-Domestic Substance Lists (NDSL)**

All hazardous ingredients are listed on the DSL.

**Hazardous Products Act (R.S.C., 1985, c. H-3)**

The safety data sheet and label comply with the Hazardous Product Act and WHMIS 2015.

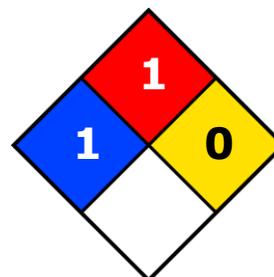
**USA**

**Other Classifications**

**HMIS® RATING**

<b>HEALTH:</b>	<b>1</b>
<b>FLAMMABILITY:</b>	<b>1</b>
<b>PHYSICAL HAZARD:</b>	<b>0</b>
<b>PERSONAL PROTECTION:</b>	

**NFPA® 704 CODES**



*Approximate HMIS and NFPA Risk Ratings Legend:*

0 (Low or none); 1 (Slight); 2 (Moderate); 3 (Serious); 4 (Severe)

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**PREMIUM 3D FILAMENTS—PETG****PETG****CAA** (Clean Air Act, USA)

This product does not contain any class 1 ozone depleting substances.

This product does not contain any class 2 ozone depleting substances.

This product does not contain substances that are listed as hazardous air pollutants.

**EPCRA** (Emergency Planning and Right to Know Act, USA, 40 CFR 372.45)

This product does not contain substances which are subject to the reporting requirements of section 313 Title III of the SARA of 1986 and 40 CFR part 372.

**TSCA** (Toxic Substances Control Act of 1976, USA)

All substances are TSCA listed.

**California Proposition 65** (Chemicals known to cause cancer or reproductive toxicity, June 06, 2014 revision, USA).

This product does not contain any substances known to be listed in California.

**Europe****RoHS** (Restriction of Hazardous Substances Directive)

This product does not contain any lead, cadmium, mercury, hexavalent chromium, PBB's, PBDE's, DEHP, BBP, DBP, or DIBP and complies with European RoHS regulations.

**WEEE** (Waste Electrical and Electronic Equipment Directive)

This product is not a piece of electrical or electronics equipment, and is therefore not governed by this regulation.

**Section 16: Other Information**

**SDS Prepared by** Regulatory Affairs Department

**Date of Review** 27 February 2020

**Supersedes** 29 October 2015

**Reason for Changes:** New emergency phone numbers.

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**PREMIUM 3D FILAMENTS—PETG****PETG****Reference**

- 1) ACGIH 2017 TLVs and BEIs: Based on the documentation of the threshold limit values for chemical substances and physical agents & biological exposure indices, American Conference of Governmental of Industrial Hygienist Cincinnati, OH (2017).
- 2) All toxicological data were checked against the RTECS (Registry of Toxic Effects of Chemical Substances®)

**Abbreviations**

ACGIH	American Conference of Governmental Industrial Hygienists (USA)
EC50	Half maximal effective concentration
EL50	Half maximal effective loading
IARC	International Agency for Research on Cancer
NOELR	No observable effect loading ratio
NTP	National Toxicology Program
GHS	Globally Harmonized System of Classification of Labeling of Chemicals
LC50	Lethal Concentration 50%
LCLo	Lowest published lethal concentration
LD50	Lethal Dose 50%
OEL	Occupational Exposure Limit
PEL	Permissible Exposure Limit
SDS	Safety Data Sheet
STEL	Short-Term Exposure Limit
TCLo	Lowest published toxic concentration
TWA	Time Weighted Average
VOC	Volatile Organic Content

**Technical Queries** Contact us regarding any questions, improvement suggestions, or problems with this product. Application notes, instructions, and FAQs are located at [www.mgchemicals.com](http://www.mgchemicals.com).

Email: [support@mgchemicals.com](mailto:support@mgchemicals.com)

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