

### PETG

# PREMIUM 3D FILAMENTS-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 CANADA MG Chemicals (Head Office) 9347-193 Street Surrey, British Columbia V4N 4E7 CANADA

2	+1-800-340-0772	<b>a</b>	+1-905-331-1396
FAX	+1-800-340-0773	FAX	+1-905-331-2682
E-MAIL	support@mgchemicals.com	E-MAIL	info@mgchemicals.com
WEB	www.mgchemicals.com		

E-маіL (Competent Person): <u>sds@mgchemicals.com</u>

### **Emergency Phone Number**

For hazardous material incidents ONLY—leaks, spills, fires, exposures or accidents USA or CANADA: Call CHEMTREC ☎: +1-800-424-9300

For emergencies involving dangerous goods; Collect 24/7 CANADA: Call CANUTEC ☎: +1-613-996-6666 or \*666 on cellular phones



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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**

Signal Word	None Mandated
Pictograms	Hazard Statements
None mandated	None

### **Hazards Not Otherwise Classified**

Not applicable.

Section 3: Composition/Information on Ingredients		
CAS #	Chemical Name	%(weight)
25038-91-9 & 25640-14-6	polyethylene terephthalate <sup>a)</sup>	>99%

a) Non-hazardous component

#### Section 4: First-Aid Measures

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

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

### Section 5: Fire-Fighting Measures

Extinguishing Media	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.
Specific Hazards	See combustion products.
<b>Combustion Products</b>	Produces carbon oxides (CO,CO <sub>2</sub> )
Fire-Fighter	Wear self-contained breathing apparatus and full fire-fighting turn-out gear.

### Section 6: Accidental Release Measures

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



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### Section 7: Handling and Storage

Prevention	Avoid breathing fumes/dust.
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**Handling** Wash hands thoroughly after handling.

Storage 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		
Ventilation	General ventilation is adequate for normal use; keep overall exposure as low as possible.	
Personal Protective Equipment		
Eye protection	Wear appropriate protective eyeglasses or chemical safety goggles.	
	<b>Recommendation:</b> Ensure that glasses have side shields for lateral protection.	
Skin Protection	No skin protection required.	
<b>Respiratory Protection</b>	For over-exposures to dust/vapors/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 your respirator has filter cartridges appropriate for the ingredients listed in section 3 of this SDS, and that the respirator is 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

Physical State	Solid	Lower Flammability Limit	Not applicable
Appearance	Variable colors	Upper Flammability Limit	Not applicable
Odor	Faint to	Vapor Pressure	Not
	odorless	@20 °C	available
Odor Threshold	Not available	Vapor Density	Not applicable
рН	Not available	Specific Gravity @25 °C	1.27
Freezing/Melting	≥100 °C	Solubility in	Insoluble
Point	[≥212 °F]	Water	
Boiling Point	Not	Partition	Not
	available	Coefficient	available
Flash Point	Not	Auto-ignition	Not
	applicable	Temperature	available
Evaporation	Not	Decomposition	Not
Rate	available	Temperature	available
Flammability	Not	Viscosity	Not
(solid, gas)	available	@40 °C	applicable

# Section 10: Stability and Reactivity

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



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### Section 11: Toxicological Information

#### **Routes of Exposure**

Ingestion, Inhalation, Eye contact, and Skin contact

### **Symptoms Summary**

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

### Acute Toxicity (Lethal Exposure Concentrations)

Chemical Name	LD50 oral	LD50 dermal	LC50 inhalation
Acrylonitrile butadiene styrene polymer	>5 g/kg	Not	Not
	Rat	established	established

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



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### **Other Toxicological Effects**

Skin corrosion/irritation	Based on available data, the classification criteria are not met.
Serious eye damage/irritation	Based on available data, the classification criteria are not met.
Sensitization (allergic reactions)	Based on available data, the classification criteria are not met.
Carcinogenicity (risk of cancer)	None of the ingredients are classified or listed as a carcinogen by IARC, ACGIH, CA Prop 65, or NTP.
Mutagenicity (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.
STOT-single exposure	Based on available data, the classification criteria are not met.
STOT-repeated exposure	Based on available data, the classification criteria are not met.
Aspiration hazard	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 (<u>http://echa.europa.eu</u>) 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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### **Chronic Ecotoxicity**

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

#### **Biodegradability**

Not readily biodegrable

#### **Bioaccumulation**

No data availale

### **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

### Air

 Refer to ICAO-IATA Dangerous Goods Regulations.

 Not Regulated

#### Sea

Refer to IMDG regulations.	
Not Regulated	



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#### Section 15: Regulatory Information

#### Canada

### WHMIS 1988 Classification

Not classifiable as hazardous according to WHMIS criteria.

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

All hazardous ingredients are listed on the DSL.

#### **Industry and Science Canada**

MG Labels products intended for the workplace to conform to WHMIS labeling regulations. Product identification, net quantity declaration, minimum printing type size heights, and packaging of this product are in compliance.

#### **Health Canada**

Products produced by MG Chemicals intended for retail display conform to the Canadian Consumer Labeling Regulations.

#### USA

### **Other Classifications**

#### **HMIS® RATING**

HEALTH:	1
FLAMMABILITY:	1
PHYSICAL HAZARD:	0
PERSONAL PROTECTION:	

**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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**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 contains 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, or PBDE's, 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	Michel Hachey
Date of Review	29 October 2015
Supersedes	Not applicable

**Reason for Changes:** New product classified in compliance with HCS 2012 and WHMIS 2015.



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#### Reference

1) ACGIH 2013 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 (2013).

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 <u>www.mgchemicals.com</u>.

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