

PREMIUM 3D FILAMENTS—PLA

PLA

Safety Data Sheet

Section 1: Identification

Product Identifier and Other Means of Identification

Product Name: PLA**Other Means of Identification:** Premium 3D Filaments-PLA**Related Part #** PLA17BK1, PLA17BL1, PLA17BR1, PLA17CP1, PLA17FLGR1, PLA17FLRE1, PLA17FLYE1, PLA17GD1, PLA17GO1, PLA17GR1, PLA17GY1, PLA17LI1, PLA17NA1, PLA17OR1, PLA17PI1, PLA17PU1, PLA17RE1, PLA17SGN1, PLA17SI1, PLA17SK1, PLA17THRE1, PLA17TL1, PLA17WH1, PLA17YE1, PLA30BK1, PLA30BL1, PLA30BR1, PLA30GD1, PLA30GO1, PLA30GR1, PLA30GY1, PLA30LI1, PLA30NA1, PLA30OR1, PLA30PI1, PLA30PU1, PLA30RE1, PLA30SGN1, PLA30SI1, PLA30SK1, PLA30TL1, PLA30WH1, PLA30YE1

Recommended Use and Restriction on Use

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

Details of Manufacturer or Importer

ManufacturerMG 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**FAX** +1-800-340-0773**E-MAIL** support@mgchemicals.com**WEB** www.mgchemicals.com**☎** +1-905-331-1396**FAX** +1-905-331-2682**E-MAIL** info@mgchemicals.com**E-MAIL** (Competent Person): sds@mgchemicals.com

Emergency Phone Number

For hazardous material incidents ONLY (leaks, spills, fires, exposures or accidents)
USA 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 service
CANADA—Call CANUTEC collect at **+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	<i>none mandated</i>
Pictograms	Hazard Statements
<i>none mandated</i>	None

Hazards Not Otherwise Classified

Other Criteria	Hazard Statements/Precautionary Statement	Signal Word	Pictograms
None	None	None	None

Section 3: Composition/Information on Ingredients

CAS #	Chemical Name	%(weight)
9051-89-2	Poly lactide resin ^{a)}	<100%

a) Non-hazardous component

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Section 4: First-Aid Measures

<i>Exposure Condition</i>	<i>GHS Code/Symptoms/Precautionary Statements</i>
IF IN EYES	P305 + P351 + P338
Immediate Symptoms	<i>mild irritation</i>
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	<i>May cause gastrointestinal irritation or blockage.</i>
Response	Rinse mouth. Seek medical advice if feeling unwell.
IF ON SKIN	P302 + P352, P332 + P313, P314, P362 + P364
Immediate Symptoms	<i>mild irritation</i>
Response	No action are required or suggested.
IF INHALED	P304 + P340, P312, P308 + P313
Immediate Symptoms	<i>low toxicity</i> <i>Exposure to heated vapors or fumes: eye irritation, upper respiratory tract irritation, nausea, headaches</i>
Response	Remove person to fresh air and keep comfortable for breathing.

Section 5: Fire-Fighting Measures

Extinguishing Media	In case of fire: Use extinguishing media suitable for surrounding materials.
Specific Hazards	Not flammable or combustible, but burns if involved in a fire. See combustion products.
Combustion Products	Produces carbon oxides (CO, CO ₂) and aldehydes
Fire-Fighter	Wear self-contained breathing apparatus and full fire-fighting turn-out gear.

PREMIUM 3D FILAMENTS—PLA**PLA****Section 6: Accidental Release Measures**

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

Section 7: Handling and Storage

Prevention	Do not eat, drink, or smoke when using this product. Avoid breathing fumes.
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.
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Personal Protective Equipment

Eye protection	Wear appropriate protective eyeglasses or chemical safety goggles. RECOMMENDATION: Ensure that glasses have side shields for lateral protection.
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Skin Protection	No skin protection required.
Respiratory Protection	<p>For over-exposures to dust, wear a dust mask or mask with particulate pre-filter.</p> <p>For exposure to combustion products, use a positive-pressure, air-supplied respirator or a self-contained breathing apparatus.</p> <p>RECOMMENDATION: 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. Ensure vapor cartridges are stored in sealed plastic bags when not being used.</p>

General Hygiene Considerations

Wash hands thoroughly with water and soap after handling.

Section 9: Physical and Chemical Properties

Physical State	Solid	Lower Flammability Limit	Not applicable
Appearance	Variable colors	Upper Flammability Limit	Not applicable
Odor	Sweet, light	Vapor Pressure @20 °C^{b)}	Not available
Odor Threshold	Not available	Vapor Density	Not applicable
pH	Not available	Relative Density @25 °C	1.24
Freezing/Melting Point	≥150 °C [≥302 °F]	Solubility in Water	Insoluble
Initial Boiling Point	Not available	Partition Coefficient n-octanol/water	Not available
Flash Point	Not applicable	Auto-ignition Temperature	Not available
Evaporation Rate	Not available	Decomposition Temperature	250 °C [≥482 °F]
Flammability	Non Flammable	Viscosity @40 °C	Not applicable

PREMIUM 3D FILAMENTS—PLA**PLA****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 230 °C [446 °F].
Incompatibilities	Oxidizing agents, strong bases
Polymerization	Will not occur
Decomposition	Will not decompose under normal conditions. For thermal decomposition, see combustion products in Section 5.

Section 11: Toxicological Information**Summary of Effects and Symptoms by Routes of Exposure**

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
Poly lactide polymer resin	>5 000 mg/kg Rat	>2 000 mg/kg Rabbit	Not available

Note: Toxicity data from the RTECS² and ECHA databases were consulted. The data from supplier SDS were also consulted.

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PREMIUM 3D FILAMENTS—PLA**PLA****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.
Reproductive Toxicity (risk to sex functions)	Based on available data, the classification criteria are not met.
Teratogenicity (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

Ecological classifications are based on the IMDG/GHS criteria in conjunction with ecotoxicological data from our suppliers, the European Chemical Agency database (<http://echa.europa.eu>), and other reliable sources.

The component substances are not classifiable as an environmental toxicant. The EC50 72 h is 1 100 mg/L for algae.

Acute Ecotoxicity

No data available.

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

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

Biodegradability

Not readily biodegradable

Bioaccumulation

Inherently biodegradable

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

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.

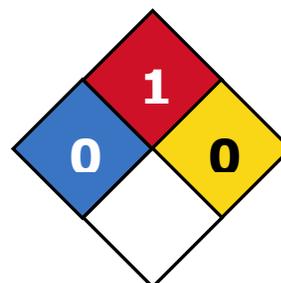
USA

Other Classifications

HMIS® RATING

HEALTH:	* 0
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)

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.

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PREMIUM 3D FILAMENTS—PLA**PLA**

California Proposition 65 (Chemicals known to cause cancer or reproductive toxicity, 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 MG Chemicals' Regulatory Department

Date of Review 11 September 2019

Supersedes 25 July 2018

Reason for Changes: Change to emergency phone numbers.

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®)

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PREMIUM 3D FILAMENTS—PLA**PLA****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.

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