PREMIUM 3D PRINTER FILAMENTS **WOOD**

Safety Data Sheet

Section 1: Identification

Product Identifier and Other Means of Identification

Product Name: Premium 3D Printer Filaments

SDS Code: WOOD

Related Part # WOOD17W1, WOOD17W5, WOOD30W1, WOOD17D1

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

☎ +1-800-340-0772
FAX +1-800-340-0773
E-MAIL support@mgchemicals.com
WEB www.mgchemicals.com

MG Chemicals (Head Office)
9347-193 Street
Surrey, British Columbia V4N 4E7
CANADA

☎ +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

Section 2: Hazard(s) Identification

Classification of Hazardous Chemical

GHS Categories

Based on available data, this product does not meet the HCS 2012 or WHMIS 2015 classification criteria.

Label Elements

Signal Word	*No signal word*
Pictograms	**Hazard Statements**
None	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)**
26100-51-6	polylactide resin [a)]	≥80%
Not available	wood dust [b)]	≤20%

a) Non-hazardous polymer component
b) The wood dust is inextricably bound in the polymer matrix

Section 4: First-Aid Measures

Exposure Condition	*GHS Code/Symptoms/Precautionary Statements*
IF IN EYES	P305 + P351 + P338
Immediate Symptoms	*low toxicity: mild irritation*
Response	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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IF SWALLOWED	P301 + P310
Immediate Symptoms	*may cause gastrointestinal blockage*
Response	Rinse mouth. Seek medical advice if feeling unwell.
IF ON SKIN	none
Immediate Symptoms	*low toxicity: none known or expected*
Response	No action are required or suggested.
IF INHALED	P304 + P340
Immediate Symptoms	*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 extinguishing media suitable for surrounding materials. If in a molten state, do not apply direct water stream.
Specific Hazards	Not flammable or combustible, but burns if involved in a fire.
Combustion Products	Produces carbon oxides (CO,CO_2)
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
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 Avoid breathing fumes and dust.

Handling Wash hands thoroughly after handling.

Storage Not applicable.

Section 8: Exposure Controls/Personal Protection

Substances with Occupational Exposure Limit Values

Chemical Name	Country or Vendor	Long Term Exposure Limits (PEL)	Short Term Exposure Limits (STEL)
wood dust	ACGIH	1 mg/m^3	Not established
	U.S.A. OSHA PEL	15 mg/m^3	Not established
	Canada AB	5 mg/m^3	Not established
	Canada BC	1 mg/m^3	Not established
	Canada ON	5 mg/m^3	10 mg/m^3
	Canada QC	5 mg/m^3	Not established

Note: The ACGIH[1], OSHA (Table Z-1), and Canadian provinces exposure limits were consulted. Limits from the RTECS database[2] and from suppliers' SDS were also consulted. Short term exposure limits (STEL) are for 15 min and long term permissible exposure limits (PEL) for 8 h.

Engineering Controls

Ventilation General ventilation is adequate for normal use; keep overall exposure as low as possible.

Because wood dust is inextricably bound to the polymer matrix, it does not present an airborne hazard under normal use.

Personal Protective Equipment

Eye protection Wear appropriate protective eyeglasses or chemical safety goggles.

RECOMMENDATION: Ensure that glasses have side shields for lateral protection.

Skin Protection No skin protection required.

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Respiratory Protection	For over-exposures to dust and 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.

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	Wood	**Upper Flammability Limit**	Not applicable
Odor	Faint to odorless	**Vapor Pressure @20 °C**	Not available
Odor Threshold	Not available	**Vapor Density**	Not applicable
pH	Not available	**Specific Gravity @25 °C**	1.25
Freezing/Melting Point	Not available	**Solubility in Water**	Insoluble
Initial Boiling Point	Not available	**Partition Coefficient n-octanol/water**	Not available
Flash Point	Not applicable	**Auto-ignition Temperature**	≥388 °C [≥730 °F]
Evaporation Rate	Not available	**Decomposition Temperature**	Not available
Flammability	Non Flammable	**Viscosity @40 °C**	Not 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 °C [572 °F]
Incompatibilities	None known
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	If exposed to heated fumes: may cause eye irritation.
Skin	Low toxicity: no effect known or expected.
Inhalation	If exposed to heated 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
Polylactide polymer resin	>5 000 mg/kg Rat	>2 000 mg/kg Rabbit	Not available

Note: Toxicity data from the RTECS[2] and ECHA database were consulted. The data from supplier SDS were also consulted.

Section continued on the next page

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)	Based on available data, the classification criteria are not met.
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.

Acute Ecotoxicity

Available toxicity data does not meet classification thresholds.

Chronic Ecotoxicity

Available toxicity data does not meet classification thresholds.

Biodegradability

Not readily biodegradable

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

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.

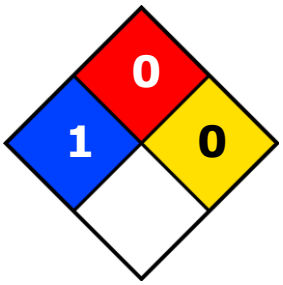
USA

Other Classifications

HMIS® RATING

HEALTH:	**1**
FLAMMABILITY:	**0**
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.

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

No warning required. This product contains wood dust, but it is bound and exposures during normal conditions of uses are below the Safe Harbor Threshold.

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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	01 November 2017

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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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.

Email: support@mgchemicals.com

Mailing Addresses

Manufacturing & Support
1210 Corporate Drive
Burlington, Ontario, Canada
L7L 5R6

Head Office
9347–193rd Street
Surrey, British Columbia, Canada
V4N 4E7

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