

Atomic Filament - PLA based 3D Filament

Safety Data Sheet According to Federal Register/Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of Issue: 8/3/2021 Revision Date: 08/03/2021

SECTION 1: Identification	
1.1. Identification	. Daund the mean leadie and
Product form	: Round thermoplastic rod
Product code	: Atomic Filament – PLA based 3D Filament
1.2. Relevant identified uses of the s	ubstance or mixture and uses advised against
Use of the substance/mixture	: Monofilament for use in 3D printers as a consumable.
1.3. Details of the supplier of the safe	ety data sheet
Crunchtech Holdings LLC dba Atomic Filame	int
6928 N 400 East	
Kendallville IN 46755	
1.4. Emergency telephone number	
Emergency number	: (818) 583-0004
SECTION 2: Hazard(s) identification	on
2.1. Classification of the substance of	
GHS-US classification	
Not classified	
Not classified	
2.2. Label elements	
GHS-US labeling	
No labeling applicable	
2.3. Other hazards	
No additional information available	
2.4. Unknown acute toxicity (GHS US	2
Not applicable	9
SECTION 3: Composition/Informa	tion on ingredients
3.1. Substance	
Not applicable	
3.2. Mixture	
Polylactide resin CAS# 9051-89	
Full text of H-phrases: see section 16	
SECTION 4: First aid measures	
4.1. Description of first aid measures	
First-aid measures general	: If you feel unwell, seek medical advice.
First-aid measures after inhalation	: Respiratory problems: consult a doctor/medical service.
First-aid measures after skin contact	: Gently wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention.
First-aid measures after eye contact	: Direct contact with the eyes is likely to be irritating. Rinse eyes with water as a precaution. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	: Get medical advice/attention if you feel unwell.
4.2. Most important symptoms and e	ffects, both acute and delayed
Symptoms/injuries	: Not expected to present a significant hazard under anticipated conditions of normal use.
Symptoms/injuries after skin contact	· Unlikely to cause harmful effects ON HEATING Burns

Symptoms/injuries after skin contact : Unlikely to cause harmful effects. ON HEATING: Burns.

Indication of any immediate medical attention and special treatment needed 4.3.

Treat symptomatically.



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SECT	ION 5: Firefighting measures	
5.1.	Extinguishing media	
	ole extinguishing media	: Foam, Water, Carbon dioxide (CO2), Dry chemical, Alcohol resistant foams are preferred if available. General-purpose synthetic foams (including AFFF) or protein foams may function, but much less effectively.
Unsui	table extinguishing media	: None known.
5.2.	Special hazards arising from the sub	ostance or mixture
React	livity	: The product is non-reactive under normal conditions of storage and transport. Workers should be protected from the possibility of contact with molten material during fabrication.
5.3.	Advice for firefighters	
No add	itional information available	
SECT	ION 6: Accidental release meas	sures
6.1.	Personal precautions, protective equ	Jipment and emergency procedures
6.1.1.	For non-emergency personnel	
Prote	ctive equipment	: Safety glasses. Gloves.
6.1.2. Prote	For emergency responders ctive equipment	: Protective gloves. Safety glasses.
6.2.	Environmental precautions	
Avoid r	elease to the environment.	
6.3.	Methods and material for containme	nt and cleaning up
	ontainment	: Collect spillage.
Metho	ods for cleaning up	: On land, sweep or shovel into suitable containers.
6.4.	Reference to other sections	
No add	itional information available	
SECT	ION 7: Handling and storage	
7.1.	Precautions for safe handling	
Preca	utions for safe handling	: Use personal protective equipment as required. Avoid contact with skin and eyes. Low hazard for usual handling. Workers should be protected from the possibility of contact with molten material during fabrication.
7.2.	Conditions for safe storage, includir	ig any incompatibilities
Techr	nical measures	 Store at temperatures not exceeding 50 °C/ 122 °F. Keep cool. No special restrictions on storage with other products.
SECT	ION 8: Exposure controls/perso	onal protection
8.1.	Control parameters	
No add	litional information available	
8.2.	Exposure controls	
Engin	eering Measures	: Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. Provide appropriate exhaust ventilation at places where fumes are formed during use. DO NOT exceed products operational temperature range.
		Exposure limits: None established. This material can generate Particulates Not Otherwise Classifiable (PNOC). The Occupational Safety and Health Administration (OSHA) PEL/TWA for PNOC is 15 mg/m3 for total dust and 5 mg/m3 for the respirable fraction. The American Conference of Governmental Industrial Hygienists (ACGIH) TLV/TWA for PNOC is 10 mg/m3 for inhalable particulates and 3 mg/m3 for respirable particulates.
SECTION 9: Physical and chemical properties		
SECI	Tore 9. Physical and chemical p	iopenies

9.1.	Information on basic physical and cho	emical properties
Physic	al state	: Solid
Appear	rance	: Plastic rod coiled on a spool.



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Color	: Variable in colour, depending on the composition
Odor	: Sweet
Odor threshold	: No data available
рН	: No data available
Melting point / Range	: 150-180C (302- 356F), Tg (Glass Transition Temperature): 55-60C (131-140F)
Freezing point	: Not applicable
Boiling point	: No data available
Flash point	: Not applicable
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: Fine dust dispersed in air may ignite
Explosion limits	: Not applicable
Explosive properties	: No data available
Oxidizing properties	: No data available
Vapor pressure	: No data available
Relative density	: 1.25
Relative vapor density at 20 °C	: No data available
Solubility	: Insoluble in water.
Log Pow	: No data available
Auto-ignition temperature	: 388C
Decomposition temperature	: 482F (250C)
Viscosity, kinematic	: Not applicable

9.2. Other information

No additional information available

SECT	ION 10: Stability and reactivity
10.1.	Reactivity
The pro	duct is non-reactive under normal conditions of use, storage and transport.
10.2.	Chemical stability
Stable ι	under normal conditions.
10.3.	Possibility of hazardous reactions
No dang	gerous reactions known under normal conditions of use.
10.4.	Conditions to avoid
None ur	nder recommended storage and handling conditions (see section 7).
10.5.	Incompatible materials
No addi	tional information available
10.6.	Hazardous decomposition products

Burning produces obnoxious and toxic fumes, Aldehydes, Carbon monoxide (CO), carbon dioxide (CO2). Thermal decomposition may produce other hazardous organic compounds during combustion. Persons exposed to these products should wear a personal breathing apparatus.

SECTION 11: Toxicological information 11.1. Information on toxicological effects Acute toxicity : Not classified Skin corrosion/irritation : Not classified Serious eye damage/irritation : Not classified Respiratory or skin sensitization : Not classified Germ cell mutagenicity : Not classified Carcinogenicity This product depending on color may contain titanium dioxide (Cas. No. 13463-67-7) and/or carbon black (Cas. No. 1333-86-4) both of which have been characterized by IARC as possibly carcinogenic to humans (Group 2B). These substances have NOT been characterized as potential carcinogens by either NTP or OSHA. This product mixture is encapsulated in thermoplastic, and is not in respirable form. Therefore, the risk is considered to be minimal, to the point where the hazard is negligible.



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Reproductive toxicity Specific target organ toxicity (single exposure)	: Not classified : Not classified
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified
Symptoms/injuries after skin contact	: Unlikely to cause harmful effects. ON HEATING: Burns.

SECTION 12: Ecological information		
12.1. Toxic	ity	
Ecology - gene	 The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment. 	
12.2. Persis	stence and degradability	
Inherently biodegradable under industrial composting conditions.		
12.3. Bioac	3. Bioaccumulative potential	
No additional information available		
12.4. Mobil	ity in soil	
No additional information available		
12.5. Other	adverse effects	
No additional information available		

SECTION 13: Disposal considerations	

13.1. Waste treatment methods

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT

Not regulated for transport

TDG

No additional information available

Transport by sea

No additional information available

Air transport

No additional information available

SECTION 15: Regulatory information

15.1. US Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory.

This product or mixture does not contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

15.2. International regulations

CANADA

No additional information available

EU-Regulations No additional information available

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National regulations

Listed on IARC (International Agency for Research on Cancer)

This product may contain titanium dioxide (Cas. No. 13463-67-7) and/or carbon black (Cas. No. 1333-86-4) both of which have been characterized by IARC as possibly carcinogenic to humans (Group 2B). These substances have NOT been characterized as potential carcinogens by either NTP or OSHA. This product mixture is encapsulated in thermoplastic, and is not in respirable form. Therefore, the risk is considered to be minimal, to the point where the hazard is negligible.

15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the State of California to cause cancer, birth defects, and/or other reproductive harm.

SECTION 16: Other information	
Revision date	: 08/03/2021
NFPA health hazard	: 1 - Exposure could cause irritation but only minor residual injury even if no treatment is given.
NFPA fire hazard	: 1 - Must be preheated before ignition can occur.
NFPA reactivity	: 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.
HMIS III Rating	
Health	: 1 Slight Hazard - Irritation or minor reversible injury possible
Flammability	: 1 Slight Hazard - Materials that must be preheated before ignition will occur. Includes liquids, solids and semi solids having a flash point above 200 F. (Class IIIB)
Physical	: 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.
Personal Protection	: B
	B - Safety glasses, Gloves

CRUNCHTECH HOLDINGS LLC. (dba ATOMIC FILAMENT)

The SDS and the information contained herein are offered to you in good faith as reliable. We have reviewed the information (much of which we have received from outside sources) on this form. We believe it to be as stated but cannot guarantee its accuracy. Health and safety precautions may not be adequate for all individuals under all circumstances and situations. Statements are given without warranty, expressed or implied, and we assume no responsibility for any loss, damage, or expense arising from their issue.