

conforms to Regulation EC No. 1907/2006 (REACH), Regulation EC No. 1272/2008 (CLP) and Commission Regulation EU No. 2015/830

Product name:

Date of compilation/revision

15.7.2020

Version: 1. 0 Replaces:

PLA+

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1.1	Product identifier	
	Product name:	PLA filament
	Other means of identification:	not available
	Registration number:	not required, the product is a mixture, not a compound
.2	Relevant identified uses of	the substance or mixture and uses advised against
	Identified uses:	material for 3D-printing
	Uses advised against:	not set
.3	Details of the supplier of th	he safety data sheet
	Distributor: (responsible for marketing)	Zemědělské družstvo Haňovice Haňovice 18 783 21 Chudobín Czech Republic tel.: +420 585 100 308 e-mail: <u>info@plastymladec.cz</u> web: <u>www.filament-pm.com</u>
	Competent person responsib	le for the safety data sheet: PharmDr. Vladimír Végh, PHARMIS, info@pharmis.sk
.4	Emergency telephone num	ber
EC		ntre, Na Bojišti 1, Praha; 24-h non-stop: +420-224919293 / +420-224915402. isks: acute intoxications of people / animals. IFICATION
Gene The 1 No. 1 List of	Information only on health r TION 2: HAZARDS IDENT eral classification of the mixtur mixture does not contain substa 1272/2008, with assigned a Co of Substances of very high Con pilation of the Safety Data She	isks: acute intoxications of people / animals. IFICATION re: the mixture is not classified as hazardous in compliance with Regulation (EC) 1272/200 ances presenting a health or environmental hazard within the meaning of Regulation (EC) mmunity workplace exposure limit, classified as PBT/vPvB nor included in the Candidate ncerns (SVHC). ret is not required for this mixture; however this Safety Data Sheet provides important
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	Supplemental hazard information:	not required					
	Supplemental label elements for certain mixtures:	not required					
	Precautionary statements:	not required					
	Other required labeling:	not required					
2.3	Other hazards Results of PBT and vPvB asse REACH, annex XIII; no subst Substances of very high conce	ances of the n					
SEC	TION 3: COMPOSITION/INF	ORMATION		DIENTS			
	Product based on polylactic a	cid (PLA) with	n additives.				
3.1	Substances does not apply						
3.2	Mixtures Substances presenting a health a Community workplace expo						
	tance CH Registration number		Content (% w/w)	EC Number CAS Number Index Number	Classification 1272/2008/EC*		Exposure limits
			-	-	-	-	-
		* For full	wording of used	classification abbreviatio	ns and Hazard Statemer	nts (H-phrases	) see Section 1
	Other compounds						
	Other substances not presentin 1272/2008, without a Commu List:		e exposure lin	nit, not classified as	PBT/vPvB nor incl		Candidate
	Other substances not presenting 1272/2008, without a Commu						
<b>REA</b> polyla 1,4-Dic rel-(3R 8,6-din	Other substances not presentin 1272/2008, without a Commu List: tance	nity workplac	e exposure lin Content	EC Number CAS Number	PBT/vPvB nor incl Classification		Candidate

#### 4.1 Description of first aid measures

Health hazard is no minimal, being neither irritating, corrosive, volatile, nor toxic. Effects of over exposure: There are no hazards under normal use conditions. Observe all user considerations and safety measures stated on the packaging. In case of any health problem or uncertainty seek medical attention and provide information from this Material Safety Data Sheet. Unconscious persons place in the stabilized position and observe the breathing. Never give any fluids to unconscious persons. Be careful when manipulating hot products - danger of skin burns.



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	Inhalation:	No adverse effects are expected under normal conditions of use. Direct inhalation exposure is n expected. Dust or potential decomposition products of melted/overheated mixture in high concentration can cause airway irritation. In this case remove the affected persons to a fresh air For those providing assistance, avoid exposure to yourself or others. Use adequate respiratory protection. If respiratory irritation, dizziness, nausea, or unconsciousness occurs, seek immedia medical assistance. If breathing has stopped, assist ventilation with a mechanical device or use mouth-to-mouth resuscitation. Call immediately medical emergency.	•			
	Skin contact:	No adverse effects are expected under normal conditions of use - no special requirements needed. In case of a skin contact with melted polymer do not remove it from the skin. Cool down the burnt area with a stream of cold water and call the professional medical help.				
	Eye contact:	No adverse effects are expected under normal conditions of use - no special requirements needed. Dust or potential decomposition products of melted polymer can cause eye irritation. Seek medical advice if the eye irritation persists. Direct contact of eye with melted product can cause serious eye damage. Seek professional medical help immediately.				
	Ingestion:	No adverse effects are expected under normal conditions of use - no special requirements neede This type of exposure is not expected.	ed.			
4.2	Most important symptoms and effects, both acute and delayed No adverse effects for human health are expected for the mixture under normal conditions of usage, the mixture is biologically inert. When melted, it can cause serious burns if contacted with skin and eyes. Ingestion of a small amount should not cause any troubles. Inhaling of loosen dust or potential decomposition products of melted/overheated mixt in high concentration can irritate moderately respiratory system and mucous membranes.					
4.3		mediate medical attention and special treatment needed mown. Use supportive and symptomatic treatment.				
SEC	TION 5: FIREFIGH	ING MEASURES				
5.1	Extinguishing media					
	Suitable extinguish	g media: water spray, alcohol resistant foam, dry-powder, carbon dioxide				
	Unsuitable extingu	ning media: direct water stream - could spread fire				
5.2	Flammable. Incom	ing from the substance or mixture ete combustion and thermolysis may produce toxic, irritating and flammable decomposition bon monoxide, carbon dioxide, sooth, aldehydes and other products of organic compounds not inhale smokes.				
5.3	exposed containers	<u>ures:</u> Keep people away. Isolate fire and deny unnecessary entry. Use water spray to cool fire nd fire affected zone until fire is out and danger of re-ignition has passed. Fight fire from protec nce. Move container from fire area if this is possible without hazard. If possible, avoid leaked w				
	protective firefight material during fire	uipment for Firefighters: Wear positive-pressure self-contained breathing apparatus (SCBA) ar g clothing (includes firefighting helmet, coat, trousers, boots, and gloves). Avoid contact with th ghting operations. If contact is likely, change to full chemical resistant firefighting clothing with ing apparatus. For protective equipment in post-fire or non-fire clean-up situations, refer to the ad 8.	nis			
SEC	TION 6: ACCIDEN	AL RELEASE MEASURES				
6.1	No special requirer should be restraint.	<b>is, protective equipment and emergency procedures</b> ints are needed. Observe all user considerations and safety measures. All unprotected persons additional protective measures may be necessary, depending on the specific circumstances and/o of the emergency responders.	or			

6.2 Environmental precautions No special requirements are needed.



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6.3	Methods and materials for containment and cleaning up Collect mechanically. All storage vessels have to be labeled. Dispose according to valid legislation (see Section 13); recycle.						
6.4		to other sections nstructions in the section 8 and 13.					
SECT	FION 7: HA	NDLING AND STORAGE					
7.1	<b>Precautions for safe handling</b> Observe all user considerations, safety measures and exposure limits. See Section 8 for advice on the minimum requirements for personal protective equipment. Avoid breathing decomposition products or loosened dust. Use only with adequate ventilation. Observe all fire protection measures (work with open flame is prohibited, remove all possible sources of ignition, smoking is prohibited). During the product's thermal treatment small amounts of volatile organic compounds may be released. Thus suction and discharge of these emissions must be locally secured. Dust from the product represents a potential explosion hazard and as such it must be continuously removed. All devices must be properly grounded.						
7.2	Observe all	<b>for safe storage, including any incomp</b> fire protection measures (work with open prohibited). Keep away from direct sunlig	n flame is prohibited, remove all possible sources of ignition,				
7.3	Specific en material for	<b>d uses</b> r 3D-printing					
SECT	FION 8: EX	POSURE CONTROLS/PERSONAL F	PROTECTION				
8.1	Control pa	rameters					
	Indicative of	occupational exposure limit EC: not set					
	CAS	Substance name	Indicative occupational exposure limit				
	-	-	-				
	National w	ork-place / occupational exposure limits (	only selected lands are displayed):				
	CAS	Substance name	Occupational exposure limits				
	-	polylactic acid (PLA) as: polymeric materials dust	Czech republic PELc 5.0 mg.m <sup>-3</sup> (Government Regulation no. 361/2007 Coll.)				
	* because of j	physical status, this type of exposure is not expected	, however mechanical grinding/ cutting can release the dust				
	Indicative l	Indicative biological limits: not set					
	Other recor	nmended values: not set					
	CAS	Substance name	OEL - equivalents				
	-	-	-				
		available for the mixture.					



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## 8.2 Exposure controls

#### Appropriate engineering controls:

Avoid contact with skin, eyes and mucous membranes. Avoid prolonged or repeated contact with skin. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Discard contaminated clothing and footwear that cannot be cleaned. Personal protective equipment selections vary based on potential exposure conditions such as applications, handling practices, concentration and ventilation. Information on the selection of protective equipment for use with this material, as provided below, is based upon intended, normal usage.

Individual protection measures, such as personal protective equipment:

a) Eye / face protection

No special requirements are needed under normal conditions of usage. Avoid contact with eyes. If risk of eye contact exists, use safety glasses with side shields (EN 166).

b) Skin protection:

No special requirements are needed under normal conditions of usage. When manipulating with heated/hot material use heat isolating gloves made of para-aramid/carbon with thermal isolation up to 270°C and forearm protection. Example of recommended gloves: KCL, Karbo TECT with leather forearm cuffs, with thermal isolation up to 350°C.

# NOTICE: The selection of a specific glove for a particular application and duration of use in a workplace should also take into account all relevant workplace factors such as, but not limited to: Other chemicals which may be handled, physical requirements (cut/puncture protection, dexterity, thermal protection), potential body reactions to glove materials, as well as the instructions/specifications provided by the glove supplier. Immediately change damaged gloves

c) Respiratory protection:

No special requirements are needed under normal use conditions. Ensure appropriate ventilation or exhaustion at the workplace. Do not inhale decomposition products from overheated product or dust produced by mechanical operations. If engineering controls do not maintain airborne contaminant concentrations at a level which is adequate to protect worker health, an approved respirator may be appropriate. Respirator selection, use, and maintenance must be in accordance with regulatory requirements, if applicable. Types of respirators to be considered for this material include: half-face particle filter respirator, type P1 or FFP1filter (European Committee for Standardization (CEN) standards EN 136, 140 and 405 provide respirator masks and EN 149 and 143 (EN 14387+A1) provide filter recommendations).

#### d) Thermal hazards:

No such risk when normally used.

#### Environmental exposure controls:

Comply with applicable environmental regulations limiting discharge to air, water and soil. Protect the environment by applying appropriate control measures to prevent or limit emissions. All storage and manipulation are have to be equipped for the sanation of possible leakage. See information in sections 6 and 12.

### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

#### 9.1 Information on basic physical and chemical properties

value	method / condition
solid wire	20°C
various / according to specification	-
no odour	-
information not available	-
information not available	-
> 155°C	ISO 3146-C
information not available	-
information not available	-
	solid wire various / according to specification no odour information not available information not available > 155°C information not available



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	Evaporation rate:	information not available	-
	Flammability (solid, gas)	information not available	-
	Upper/lower flammability or explosive limits:	information not available	-
	Vapour pressure:	information not available	-
	Vapour density:	information not available	-
	Relative density:	1,25 g/cm <sup>3</sup>	ISO 1183
	Solubility/ies:	insoluble in water	water, 20°C
	Partition coefficient: n-octanol/water:	information not available	-
	Auto-ignition temperature:	information not available	-
	Decomposition temperature:	> 240 °C	-
	Viscosity:	information not available	-
	Explosive properties:	no explosive properties	-
	Oxidising properties:	no oxidative properties	-
9.2	Other information		I
	-	-	-
SECT			
10.1	<b>Reactivity</b> Not reactive under normal conditions of storage as	nd manipulation.	
10.2	<b>Chemical stability</b> Mixture is chemically stable under normal conditi thermal decomposition.	ons of storage and manipulation. Overh	eating (> 240 °C) may cause
10.3	<b>Possibility of hazardous reactions</b> Not known.		
10.4	<b>Conditions to avoid</b> Not known. Do not expose to high temperatures a	nd sources of ignition.	
10.5	<b>Incompatible materials</b> Strong oxidants, acids and bases.		
10.6	Hazardous decomposition products Material does not decompose at ambient temperat irritating and flammable decomposition products ( products of hydrocarbons decomposition).		
SECT	TION 11: TOXICOLOGICAL INFORMATION		
11.1	<b>Information on toxicological effects</b> No adverse effects for human health are expected biologically inert.	for the mixture under normal conditions	s of usage, the mixture is
<i>a</i> )	Acute toxicity Based on available data, the classification criteria and no adverse effects for human health are expect		
<i>b</i> )	Skin corrosion/irritation		
	Based on available data, the classification criteria Melted product may cause serious burns following		corrosive / irritating properties.



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<i>c)</i>	Serious eye damage/irritation Based on available data, the classification criteria are not met. The mixture has no direct corrosive / irritating properties. Melted product may cause serious burns following the contact with the eyes.
<i>d)</i>	Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
<i>e)</i>	<i>Germ cell mutagenicity</i> Based on available data, the classification criteria are not met.
f)	Carcinogenicity Based on available data, the classification criteria are not met.
g)	Reproductive toxicity Based on available data, the classification criteria are not met.
h)	<i>STOT-single exposure</i> Based on available data, the classification criteria are not met. Inhalation of dust loosened dust during manipulation can mechanically irritate airways. However, these effects do not require classification.
i)	STOT-repeated exposure Based on available data, the classification criteria are not met.
j)	Aspiration hazard Based on available data, the classification criteria are not met.
SECT	ION 12: ECOLOGICAL INFORMATION
	No adverse effects in the environment are expected for the mixture; the mixture is biologically almost inert.
12.1	<b>Toxicity</b> No data measured for the mixture. No adverse effects in the environment are expected for the mixture; the mixture is almost biologically inert.
12.2	<b>Persistence and degradability</b> Within the environment the mixture underlies biological decomposition (biodegradable).
12.3	Bioaccumulative potential The mixture has no bioaccumulative potential.
12.4	Mobility in soil No data for the mixture. Insoluble in water, mobility in soil is not expected.
12.5	<b>Results of PBT and vPvB assessment</b> Results of PBT and vPvB assessment: The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII; no substances of the mixture in the amount of $\geq 0.1$ % are included in the Candidate List of Substances of very high concerns (SVHC).
12.6	Other adverse effects not known
SECT	ION 13: DISPOSAL CONSIDERATIONS
13.1	Waste treatment methods It is recommended to dispose all rests in authorized dangerous waste facility. Disposal has to comply all local legal requirements on wastes.
	Substance or mixture disposal methods: Dispose in accordance with the valid waste legislation. Do not dispose as a common household waste. Dispose in a certified waste facility / recycle. According to the European Waste Catalogue waste codes are not specific for product, but for its use. Therefore, appropriate waste code should assign final user according to his specific use.
	Proposed waste classification, based on the most common use:
	07 Wastes from Organic Chemical Processes 07 02 wastes from the MFSU of plastics, synthetic rubber and man-made fibres Waste type name: waste plastic



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Waste catalog code: 07 02 13

Hazardous waste: no

Packages disposal methods: Recycle empty packages.

Proposed waste classification, based on the most common use:

15 Waste packaging; absorbents, wiping cloths, filter materials and protective clothing not otherwise specified 15 01 packaging (including separately collected municipal packaging waste)

Waste type name: paper and card board packaging / plastic packaging Waste catalog code for empty package: 15 01 01 / 15 01 02

Dangerous waste: no

## **SECTION 14: TRANSPORT INFORMATION**

The substance **is not** classified as dangerous for transport according to ADR/RID/IMDG/ICAO/IATA.

14.1	UN Number: -						
14.2	UN proper shipping name						
	Road transport ADR	Rail transport RID	Int. maritime trans. IMDG	Air transport ICAO/IATA			
	-	-	-	-			
14.3	Transport hazard class(es)						
	Road transport ADR	Rail transport RID	Int. maritime trans. IMDG	Air transport ICAO/IATA			
	-	-	•	-			
	Classification code	·	·				
	-	-	-	-			
	Hazard identification nur	nber (Kemler)	·				
	-	-	-	-			
	Labels	·	·				
	-	-	-	-			
	Other remarks						
	-	-	-	-			
14.4	Packing group						
	Road transport ADR	Rail transport RID	Int. maritime trans. IMDG	Air transport ICAO/IATA			
	-	-	-	-			
14.5	Environmental hazards:	no					
14.6	Special precautions for us	ser: not required					
14.7	Transport in bulk accord	ing to Annex II of MARPOL	and the IBC Code: not transport	ted			
SECI	SECTION 15: REGULATORY INFORMATION						
15.1	Safety, health and environmental regulations/legislation specific for the substance or mixture						
	Relevant legislation European Union:						
	- Regulation (EC) No 1907/2006 of the European Parliament and of the , concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH)						
	<ul> <li>Regulation EC No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006</li> </ul>						

- Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the



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	Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)						
	<ul> <li>Commission Directive 2000/39/EC of 8 June 2000 establishing a first list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work</li> </ul>						
	<ul> <li>Commission Directive 2006/15/EC of 7 February 2006 establishing a second list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC and amending Directives 91/322/EEC and 2000/39/EC</li> </ul>						
	<ul> <li>Commission Directive 2009/161/EU of 17 December 2009 establishing a third list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC and amending Commission Directive 2000/39/EC</li> </ul>						
	<ul> <li>Commission Directive (EU) 2017/164 of 31 January 2017 establishing a fourth list of indicative occupational exposure limit values pursuant to Council Directive 98/24/EC</li> </ul>						
		(EU) 2019/1831 of 24 October 2019 establishing a fif d amending Commission Directive 2000/39/EC	th list of indicative occupational exposure limit values pursuant to Council				
		<ul> <li>Directive 2004/37/EC of the European Parliament and of the Council of 29 April 2004 on the protection of workers from the risks related to exposure to carcinogens or mutagens at work</li> </ul>					
	- European Waste Catalo	ogue					
	- Council Directive 1999 activities and installation		ons of volatile organic compounds due to the use of organic solvents in certain				
	- Regulation (EU) No 52 biocidal products Text	1	1 of 22 May 2012 concerning the making available on the market and use of				
		26/2013 of the European Parliament and of the Counci ENISA) and repealing Regulation (EC) No 460/2004	l of 21 May 2013 concerning the European Union Agency for Network and				
	Restrictions on the articles: none	e manufacture, placing on the market	and use of certain dangerous substances, mixtures and				
	Designation of the solution of the solution of the mixture	substance, of the group of substances or	Conditions of restriction				
	-		-				
15.2	Chemical safety as						
	Chemical safety ass	sessment not carried yet					
SECT	TION 16: OTHER I	NFORMATION					
a)		he previous version of the safety data she at edition - version 1.0	pet				
	Key or legend to abbreviations and acronyms used in the safety data sheet						
	Exp. lim.	Exposure limit					
	NPEL The highest permissible exposure limit (Slovak Republic)						
	PEL The highest permissible exposure limit (Czech Republic)						
	OEL Occupational exposure limit						
	PBTSubstances persistent, bioacumulative and toxicvPvBSubstances very persistent and very bioacumulative						
	VPVB         Substances very persistent and very bloacumulative           VOC         Volatile organic compound						
	DNEL Derived No Effect Level						
	PNEC Predicted No Effect Concentration						
	BW	Body weight					
	LD50	Median lethal Dose					
	LC50	Median lethal concentration					
	EC50	Half maximal effective concentration					
	IC50 Half maximal inhibitory concentration						
	ADR European Agreement concerning the International Carriage of Dangerous Goods by Road						
		European Agreement concerning the I					
	RID	European Agreement concerning the International Rule for Transport of Da	ngerous Substances by Railway				
	RID IMDG	European Agreement concerning the International Rule for Transport of Da International Maritime Dangerous Goo	ngerous Substances by Railway ods Code				
	RID	European Agreement concerning the International Rule for Transport of Da	ngerous Substances by Railway ods Code ion				

<u>Fi</u>	lament 🕅	SAFETY DATA SHEET conforms to Regulation EC No. 1907/2006 (REACH), Regulation EC No. 1272/2008 (CLP) and Commission Regulation EU No. 2015/830				
Product name:			F	PLA+		Page:
Date of	of compilation/revision	15. 7. 2020	Version: 1.0	Replaces:	-	- 10/10 -
<i>c)</i>	Key literature references and No information	sources for data				
<i>d</i> )	<i>Methods of evaluating information used for the purpose of classification</i> The substance was classified by expert judgment and conventional calculations methods in accordance with the Regulation EC No. 1272/2008 (CLP).					
e)	Full wording of used Hazard Statements (H-phrases) not used					
<i>f</i> )	<ul> <li>Advice on any training appropriate for workers</li> <li>Before handling, storing or using the present substance for the first time, employees must be informed - common training for handling chemicals, occupational safety training.</li> </ul>					
<i>g)</i>	Other information Safety Data Sheet (SDS) is compiled in accordance with the Regulation EC No. 1907/2006 (REACH), Regulation EC No. 1272/2008 (CLP) and Commission Regulation EU No. 2015/830; and contains information on safety use, occupational health protection, and environmental protection. The information contained herein is given in good faith and is accurate to the best of knowledge at the date indicated above. This particular information applies on the product as supplied and may not be valid in mixtures with other substances. If used for other purposes as identified in this SDS, the distributor is not liable for any damage.					
	The information given herein activity. The user bears sole I herein are intended to aid the the user's responsibility to en	iability for the prec user to fulfill his ol	autions required w bligations. This lis	when using the prod t is not to be consid	luct. The regulat dered complete	tory texts indicated
	Compiled: PharmDr. Vladim	ír Végh, PHARMIS	S, <u>www.pharmis.cz</u>	1		