

SAFETY DATA SHEET

Product name:		MarbleJe	t filament		Page:
Date of compilation/revision	1. 5. 2018	Version: 1.0	Replaces:	-	- 1/10 -

1.1	Product identifier	Product identifier				
	Product name:	MarbleJet 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				
1.3	Details of the supplier of th	ne 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	ent person responsible for the safety data sheet: PharmDr. Vladimír Végh, PHARMIS, info@pharmis.sk				
l .4	Emergency telephone num	ber				
SEC		atre, Na Bojišti 1, Praha; 24-h non-stop: +420-224919293 / +420-224915402. isks: acute intoxications of people / animals.				
Gene The No. 1 List o	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 Cor pilation of the Safety Data She	isks: acute intoxications of people / animals. IFICATION e: 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				
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conforms to Regulation EC No. 1907/2006 (REACH), Regulation EC No. 1272/2008 (CLP) and Commission Regulation EU No. 2015/830

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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 as REACH, annex XIII; no sub Substances of very high cond	stances of the r					
SEC	TION 3: COMPOSITION/IN	FORMATION	ON INGREI	DIENTS			
	Product based on polylactic	acid (PLA) wit	h additives and	d fillers.			
3.1	Substances does not apply						
3.2	Mixtures Substances presenting a heal a Community workplace exp						
	tance CH Registration number		Content (% w/w)	EC Number CAS Number Index Number	Classification 1272/2008/EC*		Exposure limits
-			-	-	-	-	-
	1	* For full	wording of used	classification abbreviatio	ns and Hazard Statemen	ts (H-phrases)) see Section 1
	Other compounds Other substances not present 1272/2008, without a Comm List:						
	tance CH Registration number		Content (% w/w)	EC Number CAS Number Index Number	Classification 1272/2008/EC*		Exposure limits
	actic acid (PLA) CH not available yet		< 100	polymer - -	not classified as hazardous		-
SEC	TION 4: FIRST AID MEAS	URES					
4.1	Description of first aid mea						

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 immediat 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 neede In case of a skin contact with melted polymer do not remove it from the skin. Cool down the bu 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 med advice if the eye irritation persists. Direct contact of eye with melted product can cause serious 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.
4.2	No adverse effects biologically inert. should not cause a	nptoms and effects, both acute and delayed or human health are expected for the mixture under normal conditions of usage, the mixture is hen melted, it can cause serious burns if contacted with skin and eyes. Ingestion of a small amou troubles. Inhaling of loosen dust or potential decomposition products of melted/overheated mix a can irritate moderately respiratory system and mucous membranes.
4.3		mediate medical attention and special treatment needed known. Use supportive and symptomatic treatment.
SEC	TION 5: FIREFIGI	
5.1	Extinguishing me	a
	Suitable extinguis	g media: water spray, alcohol resistant foam, dry-powder, carbon dioxide
	Unsuitable exting	hing media: direct water stream - could spread fire
5.2	Flammable. Incomproducts (such as	sing 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 container location or safe di	ters <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 em or environment.
	protective firefigh material during fir	<u>quipment for Firefighters:</u> Wear positive-pressure self-contained breathing apparatus (SCBA) an g clothing (includes firefighting helmet, coat, trousers, boots, and gloves). Avoid contact with the 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 nd 8.
SEC	TION 6: ACCIDE	AL RELEASE MEASURES
6.1	No special require should be restraint	is, protective equipment and emergency procedures ents are needed. Observe all user considerations and safety measures. All unprotected persons additional protective measures may be necessary, depending on the specific circumstances and/c of the emergency responders.

6.2 Environmental precautions No special requirements are needed.



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6.3		nd materials for containment and cleaning chanically. All storage vessels have to be lab	g up eled. Dispose according to valid legislation (see Section 13);
6.4		to other sections nstructions in the section 8 and 13.	
SECI	TION 7: HA	NDLING AND STORAGE	
7.1	Observe all requirement with adequ sources of it compounds	ts for personal protective equipment. Avoid late ventilation. Observe all fire protection me ignition, smoking is prohibited). During the p may be released. Thus suction and discharge resents a potential explosion hazard and as se	posure limits. See Section 8 for advice on the minimum breathing decomposition products or loosened dust. Use only easures (work with open flame is prohibited, remove all possible product's thermal treatment small amounts of volatile organic e of these emissions must be locally secured. Dust from the uch it must be continuously removed. All devices must be
7.2	Observe all	s for safe storage, including any incompati fire protection measures (work with open fla prohibited). Keep away from direct sunlight	ame is prohibited, remove all possible sources of ignition,
7.3	Specific en material for	d uses r 3D-printing	
SECI	TION 8: EX	POSURE CONTROLS/PERSONAL PRO	DTECTION
8.1	Control pa	rameters	
	Indicative of 2017/164/E		, Directive 2006/15/EC, Directive 2009/161/EC and Directive
	CAS	Substance name	Indicative occupational exposure limit
	-	-	-
		ork-place / occupational exposure limits (onl	y selected lands are displayed):
	CAS	Substance name	Occupational exposure limits
	-	polylactic acid (PLA) as: polymeric materials dust	Czech republic PELc 5.0 mg.m ⁻³ (Government Regulation no. 361/2007 Coll.)
	Indicativa	piological limits: not set	
		nmended values: not set	
	CAS	Substance name	OEL aquinglants
	CAS		OEL - equivalents
	-	-	-
	DNEL: not	available for the mixture.	
	PNEC: not	available for the mixture.	



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

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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

Properties	value	method / condition
Appearance:	solid wire	20°C
Colour:	various / according to specification	-
Odour:	no odour	-
Odour threshold:	information not available	-
pH:	information not available	-
Melting point/freezing point:	210°C	-
Initial boiling point and boiling range:	information not available	-
Flash point:	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:	1,24 g/cm ³	ISO 1183/B
Solubility/ies:	insoluble in water soluble in 1,2 dichloroethane, toluene, tetrahydrofuran	water, 20°C
Partition coefficient: n-octanol/water:	information not available	-
Auto-ignition temperature:	information not available	-
Decomposition temperature:	information not available	-
Viscosity:	information not available	-
Explosive properties:	no explosive properties	-
Oxidising properties:	no oxidative properties	-
Other information	1	
vicat softening temperature:	55°C	ISO 306
heat deflection temperature:	55°C	ISO 75

SECTION 10: STABILITY AND REACTIVITY

10.1	Reactivity Not reactive under normal conditions of storage and manipulation.
10.2	Chemical stability Mixture is chemically stable under normal conditions of storage and manipulation. Overheating may cause thermal decomposition.
10.3	Possibility of hazardous reactions Not known.
10.4	Conditions to avoid Not known.
10.5	Incompatible materials Not known.
10.6	Hazardous decomposition products Material does not decompose at ambient temperatures. Incomplete combustion and thermolysis may produce toxic, irritating and flammable decomposition products (such as carbon monoxide, carbon dioxide, sooth, aldehydes and other products of hydrocarbons decomposition).
SECT	ION 11: TOXICOLOGICAL INFORMATION
11.1	Information on toxicological effects No adverse effects for human health are expected for the mixture under normal conditions of usage, the mixture is biologically inert.
<i>a</i>)	<i>Acute toxicity</i> Based on available data, the classification criteria are not met. Based on composition, the mixture has low acute toxicity

and no adverse effects for human health are expected under applicable conditions of exposure.



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<i>b</i>)	Skin corrosion/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 skin.
<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.
e)	Germ cell mutagenicity Based on available data, the classification criteria are not met.
<i>f</i>)	<i>Carcinogenicity</i> Based on available data, the classification criteria are not met.
g)	<i>Reproductive toxicity</i> 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	Toxicity 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	Persistence and degradability 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	Results of PBT and vPvB assessment 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 ≥ 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.



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	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 Waste catalog code: 07 02 13 Hazardous waste: no					
	Packages disposal methods: Recycle empty packages.					
	Proposed waste classification	, based on the most common us	e:			
	15 01 packaging (including s Waste type name: paper and	ents, wiping cloths, filter materia eparately collected municipal pa card board packaging / plastic p y package: 15 01 01 / 15 01 02	ackaging waste)	otherwise specified		
SECT	TION 14: TRANSPORT INF	ORMATION				
The su	ubstance is not classified as da	ngerous for transport according	to ADR/RID/IMDG/ICAO/IA	ATA.		
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 numb	oer (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 user: not required					
14.7	Transport in bulk according to Annex II of MARPOL and the IBC Code: not transported					



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SECT	SECTION 15: REGULATORY INFORMATION					
15.1	Safety, health and	l environmental regulations/legislation	specific for the substance or mixture			
	Relevant legislation of I	European Union:				
	- Regulation (EC) No 1907/2006 of the European Parliament and of the , concerning the Registration, Evaluation, Authorization and Restriction Chemicals (REACH)					
- Regulation EC No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907						
		ion (EU) 2015/830 of 28 May 2015 amending Regu Evaluation, Authorisation and Restriction of Chemic	lation (EC) No 1907/2006 of the European Parliament and of the Council als (REACH)			
			of indicative occupational exposure limit values in implementation of workers from the risks related to chemical agents at work			
		ve 2006/15/EC of 7 February 2006 establishing a sec 98/24/EC and amending Directives 91/322/EEC and	ond list of indicative occupational exposure limit values in implementation 2000/39/EC			
		ve 2009/161/EU of 17 December 2009 establishing a puncil Directive 98/24/EC and amending Commission	third list of indicative occupational exposure limit values in on Directive 2000/39/EC			
	- Commission Directiv Council Directive 98,		fourth list of indicative occupational exposure limit values pursuant to			
	Restrictions on th articles: none	e manufacture, placing on the market a	and use of certain dangerous substances, mixtures and			
	Designation of the of the mixture	substance, of the group of substances or	Conditions of restriction			
	-		-			
1						
15.2	Chemical safety a					
	Chemical safety assessment not carried yet					
SECT	ION 16: OTHER I	NFORMATION				
<i>a)</i>		<i>he previous version of the safety data she</i> st edition - version 1.0	21			
	Key or legend to al	bbreviations and acronyms used in the say	fety data sheet			
	Exp. lim.	Exposure limit				
	NPEL	The highest permissible exposure limit				
	PEL	The highest permissible exposure limit	(Czech Republic)			
	OEL	Occupational exposure limit				
	PBT	Substances persistent, bioacumulative a				
	vPvB	Substances very persistent and very bio	acumulative			
	VOC	Volatile organic compound				
	DNEL	Derived No Effect Level				
	PNEC	Predicted No Effect Concentration				
	BW LD50	Body weight Median lethal Dose				
	LC50	Median lethal concentration				
	EC50	Half maximal effective concentration				
	IC50	Half maximal inhibitory concentration				
	ADR		ternational Carriage of Dangerous Goods by Road			
	RID	International Rule for Transport of Dan				
	IMDG	International Maritime Dangerous Goo				
	ICAO	International Civil Aviation Organization				
	IATA	International Air Transport Association				
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<i>c)</i>		rences and sources for data				
	No information					



Product name:	MarbleJet filament			Page:	
Date of compilation/revision	1. 5. 2018	Version: 1.0	Replaces:	-	- 10/10 -

<i>d</i>)	Methods of evaluating information used for the purpose of classification The substance was classified by expert judgment and conventional calculations methods in accordance with the Regulation EC No. 1272/2008 (CLP).
<i>e)</i>	Full wording of used Hazard Statements (H-phrases) not used
<i>f)</i>	Advice on any training appropriate for workers Before handling, storing or using the present substance for the first time, employees must be informed - common training for handling chemicals, occupational safety training.
<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 in no way dispenses the user from knowing and applying all provisions regulating his activity. The user bears sole liability for the precautions required when using the product. The regulatory texts indicated herein are intended to aid the user to fulfill his obligations. This list is not to be considered complete and exhaustive. It is the user's responsibility to ensure that he is subject to no other obligations than those mentioned.
	Compiled: PharmDr. Vladimír Végh, PHARMIS, <u>www.pharmis.cz</u>