

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

Product name:	CFJet filament				Page:
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1.1	Product identifier					
	Product name:	CFJet 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	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: www.filament-pm.com				
	Competent person responsible	le for the safety data sheet: PharmDr. Vladimír Végh, PHARMIS, info@pharmis.sk				
.4	Emergency telephone num	ber				
	Toxicology Information Centre, Na Bojišti 1, Praha; 24-h non-stop: +420-224919293 / +420-224915402. Information only on health risks: acute intoxications of people / animals.					
	Information only on health r	isks: acute intoxications of people / animals.				
	TION 2: HAZARDS IDENTI	IFICATION				
Gene The 1 No. 1 List o	TION 2: HAZARDS IDENT eral classification of the mixture mixture does not contain substa 1272/2008, with assigned a Con of Substances of very high Com pilation of the Safety Data She	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				
Gene The I No. 1 List o Com	TION 2: HAZARDS IDENT eral classification of the mixture mixture does not contain substa 1272/2008, with assigned a Con of Substances of very high Com pilation of the Safety Data She	IFICATION The is not classified as hazardous in compliance with Regulation (EC) 1272/2000 Tances presenting a health or environmental hazard within the meaning of Regulation (EC) The munity workplace exposure limit, classified as PBT/vPvB nor included in the Candidate The terms (SVHC). The is not required for this mixture; however this Safety Data Sheet provides important The terms and other manipulation. The adverse effects for human health are expected for the mixture under normal condition The 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. The of the other terms of the terms of terms of the terms of terms of the terms of terms of terms of the terms of ter				
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	Signal word:	not required						
	Hazard statements:	not required						
	Supplemental hazard information:	not required						
	Supplemental label elements for certain mixtures:	not required						
	Precautionary statements:	not required						
	Other required labeling:	not required						
2.3	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).							
SEC	TION 3: COMPOSITION/IN	FORMATION	ON INGREI	DIENTS				
	Product based on glycol modified polyethylene terephthalate (PETG) with additives and carbon fibers.							
3.1	Substances does not apply							
3.2	Mixtures							
	Substances presenting a heal a Community workplace exp							
Subs	a Community workplace exp						ded	
Subs	a Community workplace exp tance		Sified as PB	Г/vPvB or included i EC Number CAS Number	n the Candidate Lis		ded Exposure	
Subs	a Community workplace exp tance CH Registration number	oosure limit, clas	Content (% w/w)	Г/vPvB or included i EC Number CAS Number	n the Candidate Lis Classification 1272/2008/EC*	t: not inclue	ded Exposure limits -	
Subs REA - Subs	a Community workplace exp tance CH Registration number Other compounds Other substances not present 1272/2008, without a Comm List:	oosure limit, clas * For full v ing a health or e	Content (% w/w) - wording of used	I/vPvB or included i EC Number CAS Number Index Number - classification abbreviation I hazard within the number	n the Candidate Lis Classification 1272/2008/EC* - ns and Hazard Statemen meaning of Regulation	t: not inclue - ts (H-phrases on (EC) No	ded Exposure limits -) see Section 1 .	
Subs REA	a Community workplace exp tance CH Registration number Other compounds Other substances not present 1272/2008, without a Comm List: tance	oosure limit, clas * For full v ing a health or e	Content (% w/w) - wording of used environmenta e exposure lin Content	I/vPvB or included i EC Number CAS Number Index Number - classification abbreviation I hazard within the nuit, not classified as EC Number	n the Candidate Lis Classification 1272/2008/EC* - ns and Hazard Statemen meaning of Regulation PBT/vPvB nor inclu Classification	t: not inclue - ts (H-phrases on (EC) No	ded Exposure limits -) see Section I Candidate Exposure	
Subs REA - Subs REA	a Community workplace exp tance CH Registration number Other compounds Other substances not present 1272/2008, without a Comm List: tance CH Registration number	ing a health or e unity workplace	Content (% w/w) - wording of used environmenta e exposure lin Content	I/vPvB or included i EC Number CAS Number Index Number - classification abbreviation I hazard within the number number EC Number CAS Number	n the Candidate Lis Classification 1272/2008/EC* - ns and Hazard Statemen meaning of Regulation PBT/vPvB nor inclu Classification	t: not inclue - ts (H-phrases on (EC) No	ded Exposure limits -) see Section I Candidate Exposure	

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 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 For those providing assistance, avoid exposure to yourself or others. Use adequate respirator protection. If respiratory irritation, dizziness, nausea, or unconsciousness occurs, seek immedical assistance. If breathing has stopped, assist ventilation with a mechanical device or u mouth-to-mouth resuscitation. Call immediately medical emergency.				
	Skin contact:	In case of a s	effects are expected under normal conditions of use - no special requirements needed. skin contact with melted polymer do not remove it from the skin. Cool down the burnt stream of cold water and call the professional medical help.		
	Eye contact:	Dust or pote advice if the	effects are expected under normal conditions of use - no special requirements needed. ntial decomposition products of melted polymer can cause eye irritation. Seek medical eye irritation persists. Direct contact of eye with melted product can cause serious eye ek professional medical help immediately.		
	Ingestion:		effects are expected under normal conditions of use - no special requirements needed. exposure is not expected.		
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 amoun should not cause any troubles. Inhaling of loosen dust or potential decomposition products of melted/overheated mixtur in high concentration can irritate moderately respiratory system and mucous membranes.				
4.3			edical attention and special treatment needed supportive and symptomatic treatment.		
SEC	TION 5: FIREFIG	HTING MEAS	URES		
5.1	Extinguishing m	edia			
	Suitable extinguis	shing media:	water spray, alcohol resistant foam, dry-powder, carbon dioxide		
	Unsuitable exting	uishing media:	direct water stream - could spread fire		
5.2	Flammable. Incon	mplete combusti carbon monoxic	e substance or mixture on and thermolysis may produce toxic, irritating and flammable decomposition de, carbon dioxide, sooth, aldehydes and other products of organic compounds nokes.		
5.3	Advice for fire-fighters <u>Fire Fighting Procedures:</u> Keep people away. Isolate fire and deny unnecessary entry. Use water spray to cool fire exposed containers and fire affected zone until fire is out and danger of re-ignition has passed. Fight fire from protected location or safe distance. Move container from fire area if this is possible without hazard. If possible, avoid leaked water to enter sewage system or environment.				
	Special Protective Equipment for Firefighters: Wear positive-pressure self-contained breathing apparatus (SCBA) and protective firefighting clothing (includes firefighting helmet, coat, trousers, boots, and gloves). Avoid contact with this material during firefighting operations. If contact is likely, change to full chemical resistant firefighting clothing with self-contained breathing apparatus. For protective equipment in post-fire or non-fire clean-up situations, refer to the relevant sections 6 and 8.				
SEC	TION 6: ACCIDE	NTAL RELEAS	SEMEASURES		
6.1			e equipment and emergency procedures ed. Observe all user considerations and safety measures. All unprotected persons		

6.2 Environmental precautions No special requirements are needed.

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6.3 6.4	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. Reference to other sections Adhere to instructions in the section 8 and 13.								
SEC	TION 7: HAN	DLING AND S	TORAGE						
7.1								se only ll possible organic n the	
7.2	Observe all fi	re protection me	including any inc easures (work with away from direct s	open flame is	prohibi		possible sources	of igniti	on,
7.3	Specific end material for 3								
SEC	TION 8: EXPO	OSURE CONT	ROLS/PERSON/	AL PROTEC	TION				
8.1	Control para	ameters							
	Indicative occ 2017/164/EC		sure limit ES (2000)/39/EC, Direc	tive 20	06/15/EC, Direc	ctive 2009/161/E	C and Di	irective
	CAS	Substance nam	ame Indicative occupational exposure lin				exposure limit		
	-	-			-				
	National wor	k-place / occupa	tional exposure lin	nits (only sele	cted lan	ds are displayed	l):		
	CAS	Substance nam	ne		Оссира	tional exposure	limits		
	-	glycol modifie (PETG as: polymeric i	d polyethylene tere materials dust	-	Czech r PELc (Govern	•	5.0 r n no. 361/2007 (ng.m ⁻³ Coll.)	
			e of exposure is not exp	pected, however n	nechanica	l grinding/ cutting c	can release the dust		
		blogical limits: n							
					0.51				
	CAS	Substance nam	le		UEL - e	quivalents			
	-	-		· · ·	-				
	DNFL : not as	vailable for the 1	nixture						
		vailable for the r							
			mature.						

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8.2

SEC

9.1

Odour threshold:

Flash point:

Melting point/freezing point:

Initial boiling point and boiling range:

pH:

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 pro-	tective 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.					
TON 9: PHYSICAL AND CHEMICAL PROPERTIES					
Information on basic physical and chemical properties					
Properties	value	method / condition			
Appearance:	solid wire	20°C			
Colour:	grey	-			
Odour:	no odour	-			

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:	1,27 g/cm ³	ISO 1183/B
Solubility/ies:	insoluble in water soluble in acetaldehyde, benzene	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	I
vicat softening temperature:	85°C	ISO 306
heat deflection temperature:	70°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).

SECTION 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.

a) Acute toxicity

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.

b) Skin corrosion/irritation Based on available data, the classification criteria are not met. The mixture has no direct corrosive / irritating properties.

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	Melted product may cause serious burns following the contact with the skin.
с)	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.
d)	Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
e)	<i>Germ cell mutagenicity</i> 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.
<i>g</i>)	<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.
SECI	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, it is almost inert material with a very slow decomposition.
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
SECI	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.
	<u>Substance or mixture disposal methods:</u> 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.

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	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 se Waste type name: paper and c	nts, wiping cloths, filter materia eparately collected municipal pa eard board packaging / plastic pa package: 15 01 01 / 15 01 02	ckaging waste)	otherwise specified		
SECT	ION 14: TRANSPORT INF	ORMATION				
The su	bstance is not classified as da	ngerous for transport according	to ADR/RID/IMDG/ICAO/IA	.TA.		
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	4.3 Transport hazard class(es)					
	Road transport ADR	Rail transport RID	Int. maritime trans. IMDG	Air transport ICAO/IATA		
	-	-	-	-		
	Classification code					
	-	-	-	-		
	Hazard identification numb	er (Kemler)				
	-	-	-	-		
	Labels		I			
	-	-	-	-		
	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	g to Annex II of MARPOL an	d the IBC Code: not transport	ted		
SECT	ION 15: REGULATORY IN	FORMATION				
15.1	Safety, health and environmental regulations/legislation specific for the substance or mixture Relevant legislation of European Union: - Regulation (EC) No 1907/2006 of the European Parliament and of the , concerning the Registration, Evaluation, Authorization and Restriction of					

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 Chemicals (REACH) Regulation EC No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packa substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) Commission Directive 2000/39/EC of 8 June 2000 establishing a first list of indicative occupational exposure limit values in implementa Council Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work 					No 1907/2006 nent and of the Council n implementation of

- 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
- 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
- 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

Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles: none

Designation of the substance, of the group of substances or of the mixture	Conditions of restriction
-	-

15.2 Chemical safety assessment

Chemical safety assessment not carried yet

SECTION 16: OTHER INFORMATION

Changes made to the previous version of the safety data sheet a) Not applicable, first edition - version 1.0 Key or legend to abbreviations and acronyms used in the safety data sheet Exp. lim. Exposure limit The highest permissible exposure limit (Slovak Republic) NPEL PEL The highest permissible exposure limit (Czech Republic) OEL Occupational exposure limit Substances persistent, bioacumulative and toxic PBT Substances very persistent and very bioacumulative vPvB Volatile organic compound VOC Derived No Effect Level DNEL Predicted No Effect Concentration PNEC BW Body weight LD50 Median lethal Dose LC50 Median lethal concentration **EC50** Half maximal effective concentration Half maximal inhibitory concentration IC50 European Agreement concerning the International Carriage of Dangerous Goods by Road ADR RID International Rule for Transport of Dangerous Substances by Railway IMDG International Maritime Dangerous Goods Code ICAO International Civil Aviation Organization IATA International Air Transport Association c) Key literature references and sources for data No information Methods of evaluating information used for the purpose of classification d) The substance was classified by expert judgment and conventional calculations methods in accordance with the Regulation EC No. 1272/2008 (CLP).

Filament 🕅	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:	CFJet filament				Page:
Date of compilation/revision	1. 5. 2018	Version: 1.0	Replaces:	-	- 12/12 -

e)	Full wording of used Hazard Statements (H-phrases) not used
f)	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.
g)	<i>Other information</i> 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>