

Product name:	PEIJet 1010 FILAMENT				
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.1	Product identifier						
	Product name:	PEIJet 1010 FILAMENT					
	Other means of identification:	not available					
	Registration number:	not required, the product is a mixture, not a compound					
.2	Relevant identified uses of	Relevant identified uses of the substance or mixture and uses advised against					
	Identified uses:	material for 3D-printing					
	Uses advised against:	not set					
.3	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	le for the safety data sheet: PharmDr. Vladimír Végh, PHARMIS, info@pharmis.sk					
4	Emergency telephone num						
ene	TION 2: HAZARDS IDENT	re: the mixture is not classified as hazardous in compliance with Regulation (EC) 1272/20					
he he o. ist	TION 2: HAZARDS IDENT eral classification of the mixtur mixture does not contain subst 1272/2008, with assigned a Co of Substances of very high Con 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 ncerns (SVHC).					
ene he o. ist	TION 2: HAZARDS IDENT eral classification of the mixtur mixture does not contain subst 1272/2008, with assigned a Co of Substances of very high Con pilation of the Safety Data She	IFICATION The expected for 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 mixture.					
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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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Hazard statements:	not required
	not required
Supplemental label elements for certain mixtures:	not required
Precautionary statements:	not required
Other required labeling:	not required
	Supplemental hazard information: Supplemental label elements for certain

2.3 Other hazards

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).

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Product based on polyetherimide polymer with additives.

3.1 Substances

does not apply

3.2 Mixtures

Substances presenting a health or environmental hazard within the meaning of Regulation (EC) No. 1272/2008, assigned a Community workplace exposure limit, classified as PBT/vPvB or included in the Candidate List: not included

Substance REACH Registration number	Content (% w/w)	EC Number CAS Number Index Number	Classification 1272/2008/EC*		Exposure limits
-	-	-	-	-	-

* For full wording of used classification abbreviations and Hazard Statements (H-phrases) see Section 16.

Other compounds

Other substances not presenting a health or environmental hazard within the meaning of Regulation (EC) No.

1272/2008, without a Community workplace exposure limit, not classified as PBT/vPvB nor included in the Candidate List:

Substance REACH Registration number	Content (% w/w)	EC Number CAS Number Index Number	Classification 1272/2008/EC*	Exposure limits
polyetherimide (PEI) polymer REACH not available yet		1 2	not classified as hazardous	-

SECTION 4: FIRST AID MEASURES

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 not 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 immediate 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 needed. This type of exposure is not expected.			
4.2	No adverse effects biologically inert. should not cause a	symptoms and effects, both acute and delayed s for human health are expected for the mixture under normal conditions of usage, the mixture is When melted, it can cause serious burns if contacted with skin and eyes. Ingestion of a small amount any troubles. Inhaling of loosen dust or potential decomposition products of melted/overheated mixture ion can irritate moderately respiratory system and mucous membranes.			
4.3		immediate medical attention and special treatment needed y known. Use supportive and symptomatic treatment.			
SEC					
5.1	Extinguishing me	edia			
	Suitable extinguis	hing media: water spray, alcohol resistant foam, dry-powder, carbon dioxide			
	Unsuitable exting	uishing media: direct water stream - could spread fire			
5.2	Flammable. Incomproducts (such as	prising from the substance or mixture applete combustion and thermolysis may produce toxic, irritating and flammable decomposition carbon monoxide, carbon dioxide, sooth, aldehydes and other products of organic compounds to not inhale smokes.			
5.3	Advice for fire-fighters Fire Fighting Procedures: 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.				
	protective firefigh material during fir	<u>Equipment for Firefighters:</u> Wear positive-pressure self-contained breathing apparatus (SCBA) and ting clothing (includes firefighting helmet, coat, trousers, boots, and gloves). Avoid contact with this refighting operations. If contact is likely, change to full chemical resistant firefighting clothing with athing apparatus. For protective equipment in post-fire or non-fire clean-up situations, refer to the 5 and 8.			
SEC	TION 6: ACCIDEN	NTAL RELEASE MEASURES			
6.1	No special require should be restrain	ions, protective equipment and emergency procedures ements are needed. Observe all user considerations and safety measures. All unprotected persons t. Additional protective measures may be necessary, depending on the specific circumstances and/or nt of the emergency responders.			

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		other sections structions in the section 8 and 13.		
SECT	TION 7: HAN	DLING AND STORAGE		
7.1	Observe all u requirements with adequat sources of ig compounds r	for personal protective equipment. Avoid bre e ventilation. Observe all fire protection measure nition, smoking is prohibited). During the pro- nay be released. Thus suction and discharge of esents a potential explosion hazard and as such	ure limits. See Section 8 for advice on the minimum athing decomposition products or loosened dust. Use only ures (work with open flame is prohibited, remove all possible duct's thermal treatment small amounts of volatile organic f these emissions must be locally secured. Dust from the it must be continuously removed. All devices must be	
7.2	Observe all f	For safe storage, including any incompatibili ire protection measures (work with open flame rohibited). Keep away from direct sunlight and	e is prohibited, remove all possible sources of ignition,	
7.3	Specific end material for 3			
SECT	TION 8: EXP	OSURE CONTROLS/PERSONAL PROTI	ECTION	
8.1	Control par	ameters		
	Indicative oc	cupational exposure limit EC: not set		
	CAS	Substance name	Indicative occupational exposure limit	
	-	-	-	
	National wor	k-place / occupational exposure limits (only set	elected lands are displayed): not set	
	CAS	Substance name	Occupational exposure limits	
	61128-46-9	polyetherimide (PEI) polymer as: polymeric materials dust	Czech republic PELc 5.0 mg.m ⁻³ (Government Regulation no. 361/2007 Coll.)	
	* because of ph	ysical status, this type of exposure is not expected, however	er mechanical grinding/ cutting can release the dust	
	Indicative bio	ological limits: not set		
	Other recomm	mended values: not set		
	CAS	Substance name	OEL - equivalents	
	-	-	-	
		vailable 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

Properties	value	method / condition	
Appearance:	solid material - wire	20°C	
Colour:	various / according to specification	-	
Odour:	no odour	-	
Odour threshold:	information not available	-	
pH:	information not available	-	
Melting point/freezing point:	370 - 410°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:	1,27 g/cm ³	ISO 1183/B		
	Solubility/ies:	insoluble in water	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	-		
9.2	Other information				
	vicat softening temperature:	215°C	ISO 306		
	heat deflection temperature:	200°C	ISO 75		
	TION 10: STABILITY AND REACTIVITY		·		
10.2 10.3	Chemical stability Mixture is chemically stable under normal conditions of storage and manipulation. Overheating may cause thermal decomposition. 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).				
SECI	TION 11: TOXICOLOGICAL INFORMATION				
11.1	Information on toxicological effects No adverse effects for human health are expected biologically inert.	for the mixture under normal condition	ns of usage, the mixture is		
<i>a</i>)	 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. Melted product may cause serious burns following the contact with the skin. 				
	1				



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<i>c)</i>	<i>Serious eye damage/irritation</i> 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)	<i>Germ cell mutagenicity</i> Based on available data, the classification criteria are not met.
f)	<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)	<i>STOT-repeated exposure</i> 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, 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
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			
	-	-	-	-			
4.3	Transport hazard class(es)					
	Road transport ADR	Rail transport RID	Int. maritime trans. IMDG	Air transport ICAO/IATA			
	-	-	-	-			
	Classification code						
	-	-	-	-			
	Hazard identification nu	ımber (Kemler)					
	-	-	-	-			
	Labels						
	-	-	-	-			
	Other remarks						
	-	-	-	-			
4.4	Packing group						
	Road transport ADR	Rail transport RID	Int. maritime trans. IMDG	Air transport ICAO/IATA			
	-	-	-	-			
4.5	Environmental hazards:	no					
4.6	Special precautions for u	user: not required					
4.7	Transport in bulk accor	ding to Annex II of MARPO	L and the IBC Code: not transport	rted			
ECT	ION 15: REGULATOR	(INFORMATION					
5.1	Safety, health and enviro	onmental regulations/legislat	tion specific for the substance or	mixture			
	Relevant legislation of Europear	n Union:					
	 Regulation (EC) No 1907/2006 of the European Parliament and of the , concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH) 						
			e Council of 16 December 2008 on classific R/FEC and 1999/45/EC, and amending Regi				



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	 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 Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) 				
	0		of indicative occupational exposure limit values in implementation of		
	Council Directive 98/24/EC o	on the protection of the health and safety of w	vorkers from the risks related to chemical agents at work		
		15/EC of 7 February 2006 establishing a second control of a mending Directives 91/322/EEC and	ond list of indicative occupational exposure limit values in implementation 2000/39/EC		
		161/EU of 17 December 2009 establishing a irective 98/24/EC and amending Commissio	third list of indicative occupational exposure limit values in n Directive 2000/39/EC		
	- Commission Directive (EU) 2 Council Directive 98/24/EC	2017/164 of 31 January 2017 establishing a f	ourth list of indicative occupational exposure limit values pursuant to		
		2019/1831 of 24 October 2019 establishing a and amending Commission Directive 2000/3	fifth list of indicative occupational exposure limit values pursuant to 9/EC		
	Restrictions on the man articles: none	ufacture, placing on the market a	nd use of certain dangerous substances, mixtures and		
	Designation of the substa of the mixture	nce, of the group of substances or	Conditions of restriction		
	-		-		
15.2	Chemical safety assessme Chemical safety assessme				
SECT	ION 16: OTHER INFOR	MATION			
<i>a</i>)	<i>Changes made to the prev</i> Not applicable, first edition	vious version of the safety data shee on - version 1.0	t		
		ations and acronyms used in the safe	ety data sheet		
	1 1	osure limit			
		highest permissible exposure limit			
		highest permissible exposure limit	(Czech Republic)		
		upational exposure limit			
		stances persistent, bioacumulative a			
		stances very persistent and very bio	acumulative		
		atile organic compound			
		ived No Effect Level			
		licted No Effect Concentration			
		y weight			
		lian lethal Dose			
		lian lethal concentration			
		f maximal effective concentration f maximal inhibitory concentration			
			ternational Carriage of Dangerous Goods by Road		
		rnational Rule for Transport of Dan			
		rnational Maritime Dangerous Good			
		rnational Civil Aviation Organizatio			
		rnational Air Transport Association			
<i>c)</i>	<i>Key literature references</i> No information	and sources for data			
d)			assification tional calculations methods in accordance with the		
e)	Full wording of used Haz not used	ard Statements (H-phrases)			



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<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>)	<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>