GLITTER-PLA-FILAMENT



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Section 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name or designation of the mixture	GLITTER-PLA
Registration number	-
Synonyms	None.
Issue date	14.06.2019
Version number	02

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses	3D printer filament
Uses advised against	None known

1.3 Details of the supplier of the safety data sheet

Supplier	
Company name	REDLINE FILAMENT GmbH
Adress	Pleißeweg 15, 41469 Neuss, Germany
Phone	+49(0)177 62 77 918
Contact person	M. Eng. Robert Banse
Emergency phone number	+49(0)30 18 41 20

Section 2: Hazards identification

2.1 Classification of the substance or mixture

The mixture has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

Classification according to Regulation (EC) No 1272/2008 as amended

This mixture does not meet the criteria for classification according to Regulation (EC) 1272/2008 as amended.

Hazard summary	Not available	
2.2 Label elements		
Label according to Regulation ((EC) No. 1272/2008 as amended	
Hazard pictograms	None	
Signal word	None	
Hazard statements	The mixture does not meet the criteria for classification	
Precautionary statements		
Prevention	Not available	
Response	Not available	
Storage	Not available	
Disposal	Not available	
Supplemental label information	None.	
2.3 Other hazards	Not a PBT or vPvB substance or mixture	

Section 3: Composition/information on ingredients

3.1 Mixtures

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
Polylactic Acid (PLA) resin	90 - 100	Proprietary	-	-	
Classification:					
Other components below reportable levels	3-<5				
Composition comments	The full tex	t for all H-stateme	ents is displayed in sec	ction 16.	
Section 4: First aid mea	sures				
General information			sonnel are aware of th utions to protect ther		
4.1 Description of first aid me	asures				
Inhalation	levels	of dusts or fumes,	n of the product. If ex remove to fresh air ai er symptoms develop	nd get medical	e
Skin contact	adheri physic	ng to skin as quick	n hot material, cool m ly as possible with wa adhering material and n the skin.	ater, and see a	'n.
Eye contact	eye, flı		n of the product. If ho at least 15 minutes ar		S
Ingestion	Not lik	ely, due to the forr	n of the product.		
4.2 Most important symptom and effects, both acute ar delayed		ure may cause tem	nporary irritation, redr	ess, or discomfor	t.
4.3 Indication of any immediate medical attention and special treatment needed	Treat s	symptomatically.			

Section 5: Firefighting measures

General fire hazards 5.1 Extinguishing media	No unusual fire or explosion hazards noted.
Suitable extinguishing media Unsuitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2). Do not use water jet as an extinguisher, as this will spread the fire.
5.2 Special hazards arising from the substance or mixture	During fire, gases hazardous to health may be formed.
5.3 Advice for firefighters	
Special protective equipment for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Special fire fighting procedures	Move containers from fire area if you can do so without risk.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.

Section 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	Keep unnecessary personnel away. For personal protection, see section 8 of the SDS.
For emergency responders	Keep unnecessary personnel away. Use personal protection recommended in Section 8 of the SDS.
6.2 Environmental precautions	Avoid discharge into drains, water courses or onto the ground.
6.3 Methods and material for containment and cleaning up	Sweep up or vacuum up spillage and collect in suitable container for disposal. For waste disposal, see section 13 of the SDS.
6.4 Reference to other sections	For personal protection, see section 8 of the SDS. For waste disposal, see section 13 of the SDS.

Section 7: Handling and storage

7.1	Precautions for safe handling	Observe good industrial hygiene practices.
7.2	Conditions for safe storage, including any incompatibilities	Store in tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).
7.3	Specific end use(s)	Not available.

Section 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits	No exposure limits noted for ingredient(s).	
Biological limit values	No biological exposure limits noted for the ingredient(s).	
Recommended monitoring procedures	Follow standard monitoring procedures.	
Derived no effect levels (DNELs)	Not available	
Predicted no effect concentrations (PNECs)	Not available	
8.2 Exposure controls		
Appropriate engineering controls	Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.	
Individual protection measures, such as personal protective equipment		
General information	Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the	

	personal protective equipment.
Eye/face protection	Wear safety glasses with side shields (or goggles).
Skin protection	
- Hand protection	Wear appropriate chemical resistant gloves.
- Other	Wear suitable protective clothing.
Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment.
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.
Hygiene measures	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
Environmental exposure controls	Environmental manager must be informed of all major releases.

Section 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

	Appearance	
	Physical state	Solid.
	Form	filament
	Colour	Color depends on product specification. Glitter
	Odour	Slight.
	Odour threshold	Not available.
	рH	Not available.
	Melting point/freezing point	150 - 180 °C (302 - 356 °F)
	Initial boiling point and boiling range	Not available.
	Flash point	Not available.
	Evaporation rate	Not available.
	Flammability (solid, gas)	Not available.
Upper/lower flammability or explosive limits		
	Flammability limit - lower (%)	Not available.
	Flammability limit - upper (%)	Not available.

Not available.

Not available.

Not available.

Vapour pressure

Vapour density

Relative density

Solubility(ies)

Solubility (water)	Insoluble
Partition coefficient (n- octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	205 °C (> 401 °F)
Viscosity	Not available.
Explosive properties	Not explosive.
Oxidising properties	Not oxidising.
9.2 Other information	
Density	1,25

Section 10: Stability and reactivity

10.1 Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
10.2 Chemical stability	Material is stable under normal conditions.
10.3 Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
10.4 Conditions to avoid	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Avoid temperatures exceeding the decomposition temperature. Contact with incompatible materials.
10.5 Incompatible materials	Strong oxidising agents.
10.6 Hazardous decomposition products	No hazardous decomposition products are known.

Section 11: Toxicological information

General information	Occupational exposure to the substance or mixture may cause adverse effects.	
Information on likely routes of exposure		
Inhalation	Based on available data, the classification criteria are not met.	
Skin contact	Based on available data, the classification criteria are not met.	
Eye contact	Based on available data, the classification criteria are not met.	
Ingestion	May cause discomfort if swallowed. However, ingestion is not likely to be a primary route of occupational exposure.	
Symptoms	Exposure may cause temporary irritation, redness, or discomfort.	
11.1 Information on toxicological effects		
Acute toxicity	Not known.	
Skin corrosion/irritation	Based on available data, the classification criteria are not met.	
Serious eye damage/eye irritation	Based on available data, the classification criteria are not met.	
Respiratory sensitisation	Based on available data, the classification criteria are not met.	

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Skin sensitisation	Based on available data, the classification criteria are not met.	
Germ cell mutagenicity	Based on available data, the classification criteria are not met.	
Carcinogenicity	Based on available data, the classification criteria are not met.	
Hungary. 26/2000 EüM Ordinance on protection against and preventing Not listed. risk relating to exposure to carcinogens at work (as amended)		
Reproductive toxicity	Based on available data, the classification criteria are not met.	
Specific target organ toxicity - single exposure	Based on available data, the classification criteria are not met.	
Specific target organ toxicity - repeated exposure	Based on available data, the classification criteria are not met.	
Aspiration hazard	Based on available data, the classification criteria are not met.	
Mixture versus substance information	No information available.	
Otherinformation	This product has no known adverse effect on human health.	

Section 12: Ecological information

12.1 Toxicity	The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.
12.2 Persistence and degradability	No data is available on the degradability of any ingredients in the mixture.
12.3 Bioaccumulative potential	
Partition coefficient n-octanollwater (log Kow)	Not available.
Bioconcentration factor (BCF)	Not available.
12.4 Mobility in soil	No data available.
12.5 Results of PBT and vPvB assessment	Not a PBT or vPvB substance or mixture. Not available.
12.6 Other adverse effects	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

Section 13: Disposal considerations

13.1 Waste treatment methods			
Residual waste	Dispose of in accordance with local regulations.		
Contaminated packaging	Empty containers should be taken to an approved waste handling site for recycling or disposal.		
EU waste code	The Waste code should be assigned in discussion between the user, the producer and the waste disposal company.		
Disposal methods/information	Collect and reclaim or dispose in sealed containers at licensed waste disposal site.		
Special precautions	Dispose in accordance with all applicable regulations.		

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Section 14: Transport information

ADR	14.1 14.6.: Not regulated as dangerous goods.
RID	14.1 14.6.: Not regulated as dangerous goods.
ADN	14.1 14.6.: Not regulated as dangerous goods.
ΙΑΤΑ	14.1 14.6.: Not regulated as dangerous goods.
IMDG	14.1 14.6.: Not regulated as dangerous goods.
14.1 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable.

Section 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

EU regulations			
Regulation (EC) No. 1005/2 Annex I and II, as amended	009 on substances that deplete the ozone layer,	Not listed.	
Regulation (EC) No. 850/20 amended	004 On persistent organic pollutants, Annex I as	Not listed.	
Regulation (EU) No. 649/20 chemicals, Annex I, Part 1 as	D12 concerning the export and import of dangerous amended	Not listed.	
Regulation (EU) No. 649/20 chemicals, Annex I, Part 2 as	D12 concerning the export and import of dangerous s amended	Not listed.	
Regulation (EU) No. 649/20 chemicals, Annex I, Part 3 as	D12 concerning the export and import of dangerous s amended	Not listed.	
Regulation (EU) No. 649/20 chemicals, Annex V as amer	D12 concerning the export and import of dangerous nded	Not listed.	
Regulation (EC) No. 166/20 Registry, as amended	06 Annex II Pollutant Release and Transfer	Not listed.	
Regulation (EC) No. 1907/2 currently published by ECHA	006, REACH Article 59(10) Candidate List as A	Not listed.	
Authorisations			
Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to Not list authorization, as amended		Not listed.	
Restrictions on use			
Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to Not liste restriction on marketing and use as amended		Not listed.	
	ne protection of workers from the risks related to d mutagens at work, as amended.	Not listed.	
Other EU regulations			
Directive 2012/18/EU on major accident hazards involving dangerous Not substances, as amended		Not listed.	
Other regulations	The product is classified and labelled in accordanc Regulation (EC) 1272/2008 (CLP Regulation) as a This Safety Data Sheet complies with the requiren Regulation (EC) No 1907/2006, as amended.	mended.	

National regulations	Follow national regulation on the protection of workers from the risks of exposure to carcinogens and mutagens at work, in accordance with Directive 2004/37/EC.
15.2Chemical safety assessment	No Chemical Safety Assessment has been carried out.

Section 16: Other information

List of abbreviations	Not available.
References	Not available.
Information on evaluation method leading to the classification of mixture	The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available.
Full text of any H-statements not written out in full under Sections 2 to 15	None.
Revision information	None.
Training information	Follow training instructions when handling this material.
Disclaimer	This safety data sheet (SDS) is issued based on the latest reference, data etc currently available. The information in this SDS has been carefully assessed, but no guarantee is given for its accuracy. We cannot anticipate all conditions under which this product may be used. It is the user's responsibility to take appropriate safety measures for handling.