ABS-FILAMENT SAFETY DATA SHEET



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

ABS

1.1 Product identifier

Trade name or

designation of the

mixture

Registration number -

Synonyms None

Issue date 14.06.2019

Version number 01

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 +49(0)30 18 41 20

number

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	
Acrylonitrile Butadiene Styrene resin	90 - 100	9003-56-9	-	-		
Classification:	_					
Other components below reportable levels	1-<3					
Composition comments	The full text for all H-statements is displayed in section 16					

Section 4: First aid measures

General information Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

4.1 Description of first aid measures

Inhalation Not likely, due to the form of the product. If exposed to excessive

levels of dusts or fumes, remove to fresh air and get medical

attention if cough or other symptoms develop.

Skin contact If burned by contact with hot material, cool molten material

adhering to skin as quickly as possible with water, and see a physician for removal of adhering material and treatment of burn.

Do not peel polymer from the skin.

Eye contact Not likely, due to the form of the product. If hot product contacts

eye, flush with water for at least 15 minutes and seek medical

attention immediately.

Ingestion Not likely, due to the form of the product.

4.2 Most important symptoms

and effects, both acute and

delayed

Exposure may cause temporary irritation, redness, or discomfort.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

Section 5: Firefighting measures

General fire hazards No unusual fire or explosion hazards noted.

5.1 Extinguishing media

Suitable extinguishing media Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

Unsuitable extinguishing

media

Do not use water jet as an extinguisher, as this will spread the fire.

5.2 Special hazards arising from the substance or

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

au

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,

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

Color depends on product specification

Odour Slight.

Odour threshold Not available.

pH Not available.

Melting point/freezing point > 100 °C (> 212 °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.

Vapour pressure Not available.

Vapour density Not available.

Relative density Not available.

Solubility(ies)

Solubility (water) Not available.

Partition coefficient (n-

octanol/water)

Not available.

Auto-ignition temperature Not available.

Decomposition temperature > 300 °C (> 572 °F)

Viscosity Not available.

Explosive properties Not explosive.

Oxidising properties Not oxidising.

9.2 Other information

Density 1,04 g/cm³

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.

Eve 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.

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)

gens at work (as amended)

Reproductive toxicity Based on available data, the classification criteria are not met.

Pased 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.

Other information 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

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.

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 Collect and reclaim or dispose in sealed containers at licensed

methods/information waste disposal site.

Special precautions Dispose in accordance with all applicable regulations.

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.

IATA 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. 1005/2009 on substances that deplete the ozone layer, Not listed. Annex I and II, as amended

Regulation (EC) No. 850/2004 On persistent organic pollutants, Annex I as Not listed. amended

Regulation (EU) No. 649/2012 concerning the export and import of dangerous Not listed. chemicals, Annex I, Part 1 as amended

Regulation (EU) No. 649/2012 concerning the export and import of dangerous Not listed. chemicals, Annex I, Part 2 as amended

Regulation (EU) No. 649/2012 concerning the export and import of dangerous Not listed. chemicals, Annex I, Part 3 as amended

Regulation (EU) No. 649/2012 concerning the export and import of dangerous Not listed. chemicals. Annex V as amended

Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Not listed. Registry, as amended

Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as Not listed. currently published by ECHA

Authorisations

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to Not listed. authorization, as amended

Restrictions on use

Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to Not listed. restriction on marketing and use as amended

Directive 2004/37/EC: on the protection of workers from the risks related to Not listed. exposure to carcinogens and mutagens at work, as amended.

Other EU regulations

Directive 2012/18/EU on major accident hazards involving dangerous Not listed. substances, as amended

Other regulations The product is classified and labelled in accordance with

Regulation (EC) 1272/2008 (CLP Regulation) as amended. This Safety Data Sheet complies with the requirements of

Regulation (EC) No 1907/2006, as amended.

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.