

Safety Data Sheet – PC ABS

SECTION 1: Identification of substance/mixture and of the company

1.1 Product identifier

Trade name or designation of the mixture	PC ABS
Registration Number	-
Synonyms	None
Issue date	07-03-2022
Version Number	1

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

Identified uses	3D printer FDM filament
Uses advised against	None known

1.3 Details of the supplier of the safety data sheet

Supplier	-
Company name	Azurefilm d.o.o.
Address	Orleška cesta 16, 6210 Sežana
Contact Person	Remco Katz
E-mail	compliance@azurefilm.com

1.4 Emergency telephone number

+386 1 522 1293

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SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

The mixture has been assessed an/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 words	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

3.2 Mixtures

Chemical name	%	CAS-No. / EC No.	REACH reg. No.	Index No.	Notes
Acrylonitrile Butadiene Styrene	80 - < 90	Proprietary	-	-	
Classification:	-				
Polycarbonate	10 - < 20	Proprietary	-	-	
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 or treatment of burn. Do not peel polymer from the skin.
Eye contact	Not likely, due to the form of the product. If hot products 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 Unsuitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO ₂). 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 Special firefighting procedures Specific methods	Self-contained breathing apparatus and full protective clothing must be worn. Move containers from fire area if you can do so without risk. Use standard firefighting standards and consider hazards of other materials involved.

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. For personal protection see section 8 of the SDS.
6.2 Environmental precautions	Avoid discharge into drains, water courses or onto the ground.
6.3 Methods and material 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 and 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 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.
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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 based on physical and chemical properties

Appearance	
Physical state	Solid
Form	Filament
Color	Color depends on product specification.
Odor	Slight
Odor threshold	Not available.
pH	Not available.
Melting/freezing point	240 - 260 °C (464 - 500 °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.
Vapor pressure	Not available.
Vapor density	Not available.
Relative density	Not available.
Solubility (water)	Insoluble
Partition coefficient	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Explosive properties	Not explosive
Oxidizing properties	Not oxidizing

9.2 Other information

Density	1,00 - 1,10 g/cm ³
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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. Contact with incompatible materials.
10.5 Incompatible materials	Strong oxidizing agents.
10.6 Hazardous decomposition products	Irritating and/or toxic fumes and gases may be emitted upon the product's decomposition.

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	Unknown
Skin corrosion/irritation	Based on available data, the classification criteria are not met.
Serious eye damage / irritation	Based on available data, the classification criteria are not met.
Respiratory sensitization	Based on available data, the classification criteria are not met.
Skin sensitization	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 risk relating to exposure to carcinogens at work (as amended)	
Not listed.	
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.
Other information	This product has no known adverse effect on human health.

SECTION 12: Ecological information

12.1 Toxicity	This 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 available on the degradability of any ingredients in the mixture.
12.3 Bio accumulative potential	
Partition coefficient n-octanol/water (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.
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 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.

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

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	Not listed.
Regulation (EC) No. 0850/2004	Not listed.
Regulation (EU) No. 0649/2012 (Ann. I, pt. 1)	Not listed.
Regulation (EU) No. 0649/2012 (Ann. I, pt. 2)	Not listed.
Regulation (EU) No. 0649/2012 (Ann. I, pt. 3)	Not listed.
Regulation (EU) No. 0649/2012 (Ann. V)	Not listed.
Regulation (EC) No. 0166/2006 (Ann. II)	Not listed.
Regulation (EC) No. 1907/2006 (REACH 59(10))	Not listed.

Authorizations

Regulation (EC) No. 1907/2006 (REACH Ann. XIV)	Not listed.
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Restrictions on use

Regulation (EC) No. 1907/2006 (REACH Ann XVII)	Not listed.
Directive (EC) No. 2004/37	Not listed.

Other EU regulations

Directive (EU) No. 2012/18	Not listed.
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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 (EC) 2004/37, as amended.

15.2 Chemical safety

No Chemical Safety Assessment has been carried out.

SECTION 16: Other information

List of abbreviations	Not available.
References	Not available.
Information on evaluation method	The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available.
leading to the classification of mixture	
Full text of any H-statements not written out in full under sections 2 to 15	None.
Revision information	None.
Training in information	Follow training instructions when handling this material.

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