Safety Data Sheet of **Fiberlogy ABS PLUS** according to Regulation (EC) No. 1907/2006 (REACH) and EU Regulation 2020/878.

Update: 28.03.2025 r.

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. PRODUCT IDENTIFIER

Fiberlogy ABS PLUS

1.2. RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST

Application: Filament used for 3D printing

Uses advised against: Undefined

1.3. DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

Fiberlab S.A.
Brzezie 387,
32-014 Brzezie,
Poland
datasheets@fiberlab.com

1.4. EMERGENCY TELEPHONE NUMBER

112 (Europe)

SECTION 2: HAZARDS IDENTIFICATION

2.1. CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

According to the Regulation (EC) no. 1272/2008 (CLP): Product is not classified as hazardous.

2.2. LABEL ELEMENTS

Hazard pictograms and signal word:	None
Dangerous components placed on the label:	None
Hazard statements:	None
Precautionary statements:	None
According to the Regulation (EC) no. 1272/2008 (CLP):	According to European and national laws, the product does not require labeling.

2.3. OTHER HAZARDS

The product does not contain substances considered to have endocrine disrupting properties, according to Article 57(f) of REACH, Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605, in concentrations of 0.1% or more.
Mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. SUBSTANCES

Not applicable

3.2. MIXTURES

Substance name	CAS no.	No. EC / ECHA list	PCT (wt%)	Classification according to Regulation (EC) No 1272/2008 (CLP)	
				Hazard classes and category codes	Hazard statement codes
Butadiene-styrene-acrylonitrile-n-butyl acrylate polymer	26657-42-1	-	>97	-	-
Dye additives	-	-	<3	-	-

Any substances contained in the mixture do not meet the criteria specified in Regulation (EC) No. 1907/2006 (REACH) and Regulation (EC) No. 1272/2008 (CLP), which mandate their inclusion in the safety data sheet.

SECTION 4: FIRST AID MEASURES

4.1. DESCRIPTION OF FIRST AID MEASURES

Inhalation: Move affected person to fresh air. Get a medical assistance immediately.

Skin contact: Immediately rinse with plenty of water after contact with molten polymer for at least 15 minutes. If skin irritation continues, get medical assistance.

Eye contact: Immediately rinse eyes with plenty of water for at least 15 minutes. Get medical attention if symptoms occur.

Ingestion: Rinse mouth and then drink plenty of water. Never give anything by mouth to an unconscious person. Do not induce vomiting, unless directed by medical personnel. Call a doctor immediately.

Information for medical: Treat symptomatically.

4.2. MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

Symptoms: No significant body reactions to the product.

Threats: Risk of skin burns caused by molten material when handled improperly. Other than that, no risk is expected when used intentionally and handled properly.

4.3. INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

Continuation of first aid measures. Treatment as recommended by the doctor.

SECTION 5: FIREFIGHTING MEASURES

5.1. EXTINGUISHING MEDIA

Suitable extinguishing agents: water spray, foam, dry powder, carbon dioxide.

Unsuitable extinguishing agents: direct stream of water.

5.2. SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

In case of combustion: formation of carbon monoxide, carbon dioxide, nitrogen oxides, hydrogen cyanide, toxic fumes and other decomposition products.

5.3. ADVICE FOR FIREFIGHTERS

Provide/wear protective breathing apparatus.

The degree of risk depends on the burning substance and fire conditions. In case of combustion, possible formation of toxic gases/vapors. Dispose of fire residues and contaminated extinguishing water according to applicable regulations.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

Keep away from ignition sources. Avoid contact with skin and eyes. Avoid inhalation of dust. Wear dust masks and safety goggles if necessary.

6.2. ENVIRONMENTAL PRECAUTIONS

It should not be released into the environment.

6.3. METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP

Sweep up and collect. Avoid dust generation. Provide proper ventilation. Dispose of absorbed material according to regulations.

6.4. REFERENCE TO OTHER SECTIONS

Information on exposure control/personal protective equipment and waste handling is available in Sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1. PRECAUTIONS FOR SAFE HANDLING

Use the product according to the intended use and the rules of occupational safety and health. Set up processing machinery in a room with good ventilation. Avoid formation and deposition of dust. Maintain good cleanliness standards to prevent dust accumulation.

7.2. CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

Information on fire and explosion protection: General fire safety rules should be followed.
In case of dust formation: Take measures to prevent electrostatic charge.
Avoid all sources of ignition: heat, sparks, open flames.
Storage: Well closed/packed, cool and dry place. Protect from moisture, direct strong sunlight and high temperature. Avoid contamination with other substances. Avoid storage together with hazardous substances.

7.3. SPECIFIC END USE(S)

For the relevant identified uses listed in Section 1, follow the guidance listed in this section.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. CONTROL PARAMETERS

Product does not contain any significant amounts of materials with occupational exposure limits.

8.2. EXPOSURE CONTROLS

Personal protective equipment

Respiratory protection: respiratory protection if dusts are formed. particulate filter (type P1).

Hand protection: use additional gloves for protection against heat when working with hot molten material (EN 407).

Eye protection: safety goggles with side shields (frame goggles) (e.g. EN 166),

Body protection: Body protection must be selected depending on the activity and possible exposure, e.g. apron, safety boots, chemical protection suit.

General safety and hygiene measures: avoid contact between molten material and skin. Avoid inhalation of dusts/mists/vapours. Eye wash fountains and safety showers must be easily accessible. Follow industrial hygiene and safety rules.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

Physical state	Solid
Colour	By assortment
Odour	Specific
Melting point / freezing point	No data
Boiling point	Not applicable
Flammability	No data
Lower and upper explosion limit	Not applicable
Flash point	Not applicable
Auto-ignition temperature	No data
Decomposition temperature	No data
pH	Not applicable
Kinematic viscosity	Not applicable
Solubility in water	Insoluble
Partition coefficient n-octanol/water (log value)	No bioconcentration expected due to relatively high molecular weight (CC above 1000)
Vapour pressure	Not applicable
Density and / or relative density	1,05 g/cm^3
Relative vapour density	Not applicable
Particle characteristics	Product in the form of filament with an average diameter of: 1.75mm or 2.85 mm

9.2. OTHER INFORMATION

9.2.1. Information with regard to physical hazard classes

Protection against contact with molten material during printing

9.2.2. Other safety characteristics

See section 8

SECTION 10: STABILITY AND REACTIVITY

10.1. REACTIVITY

No reactions when stored and handled as recommended.

10.2. CHEMICAL STABILITY

The product is stable when stored and used as recommended.

10.3. POSSIBILITY OF HAZARDOUS REACTIONS

None, the product is stable when stored and used as directed/indicated.

10.4. CONDITIONS TO AVOID

Avoid temperatures above 300°C.

Protect from moisture.

10.5. INCOMPATIBLE MATERIALS

Unknown.

10.6. HAZARDOUS DECOMPOSITION PRODUCTS

None, if the product is used as recommended. In case of fire, hazardous decomposition products (carbon monoxide, carbon dioxide, nitrogen oxides, hydrogen cyanide, toxic fumes and other decomposition products) may be formed.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. INFORMATION ON HAZARD CLASSES AS DEFINED IN REGULATION (EC) NO 1272/2008

11.1.1. Acute toxicity:

Oral: The oral toxicity of a single dose is believed to be remarkably low. No risk is expected from ingestion of small amounts, which can happen during normal handling operations. If ingested, it can cause suffocation.

Skin: No adverse effects are expected from skin absorption.

Inhalation: A single exposure to dust is unlikely to be hazardous. Vapors generated during thermal processing may cause respiratory irritation.

11.1.2. Skin corrosion / irritation:

Prolonged contact is not irritating to the skin. Only mechanical injury. Under normal processing conditions, the material is heated to high temperatures, contact with molten material may cause burns.

11.1.3. Serious eye damage / irritation:

The solid substance or dust may cause irritation or corneal injury due to mechanical action. Elevated temperatures may cause generation of vapors in concentrations capable of causing eye irritation. Symptoms include discomfort and redness of the eyes.

11.1.4. Respiratory or skin sensitization:

No data.

11.1.5. Germ cell mutagenicity:

No data.

11.1.6. Carcinogenicity:

No data.

11.1.7. Reproductive toxicity:

No data.

11.1.8. STOT – single exposure:

The mixture is not classified as toxic to target organs.

11.1.9. STOT – repeated exposure:

The mixture is not classified as toxic to target organs.

11.1.10. Aspiration hazard:

No data.

11.2. INFORMATION ON OTHER HAZARDS

The product does not contain substances considered to have endocrine disrupting properties, according to Article 57(f) of REACH, Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605, in concentrations of 0.1% or more.

SECTION 12: ECOLOGICAL INFORMATION

12.1. TOXICITY

Acute toxicity is not expected. However, do not allow the product to enter the sewage system, surface water, or soil. The product is not toxic, but small particles may physically affect aquatic and terrestrial organisms.

12.2. PERSISTENCE AND DEGRADABILITY

It is recognized that the polymer in solid form, insoluble in water, is inert to the environment. Surface photodegradation under exposure to sunlight may occur. Slight biodegradation is expected.

12.3. BIOACCUMULATIVE POTENTIAL

No bioconcentration expected due to relatively high molecular weight (CC above 1000)

12.4. MOBILITY IN SOIL

When released into the terrestrial environment, the product is expected to accumulate in the soil. In the aquatic environment, the material will sink and remain in the sediment.

12.5. RESULTS OF PBT AND vPvB ASSESSMENT

Mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6. ENDOCRINE DISRUPTING PROPERTIES

The product does not contain substances considered to have endocrine disrupting properties, according to Article 57(f) of REACH, Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605, in concentrations of 0.1% or more.

12.7. OTHER ADVERSE EFFECTS

No data.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. WASTE TREATMENT METHODS

Disposal by recycling is recommended, while all national and local regulations must be followed.

SECTION 14: TRANSPORT INFORMATION

Not classified as dangerous good according to transport regulations (ADR, RID, ADN, IATA, IMDG).

14.1. UN NUMBER OR ID NUMBER

Not applicable.

14.2. UN PROPER SHIPPING NAME

Not applicable.

14.3. TRANSPORT HAZARD CLASS(ES)

Not applicable.

14.4. PACKING GROUP

Not applicable.

14.5. ENVIRONMENTAL HAZARDS

Not applicable.

14.6. SPECIAL PRECAUTIONS FOR USER

Not applicable.

14.7. MARITIME TRANSPORT IN BULK ACCORDING TO IMO INSTRUMENTS

Not applicable.

SECTION 15: REGULATORY INFORMATION

15.1. SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC FOR THE SUBSTANCE OR MIXTURE

Some selected:

2020/878/UE - Regulation of the European Commission of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH)

1907/2006/WE - Regulation on the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulations EEC No 793/93 and No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives: 91/155/EEC; 93/67/EEC; 93/105/EC; 2000/21/EC and later changes.

1272/2008/WE - Regulation of the European Parliament and of the Council of 16 December 2008 on classification, labeling and packaging of substances and mixtures, amending Regulation EC 1907/2006.

15.2. CHEMICAL SAFETY ASSESSMENT

A chemical safety assessment is not required for the mixture.

The SDS for this product is not legally required and is provided by us as a courtesy to our customers. The product is not classified as dangerous. A chemical safety assessment is not required.

SECTION 16: OTHER INFORMATION

The data contained in this safety data sheet is based on our current knowledge and experience and describes the product only in relation to safety requirements.

Information provided based on reference materials submitted by raw material suppliers. To the knowledge of Fiberlab S.A., they are reliable. This data is for informational purposes only. Fiberlab S.A. makes no warranties and is not responsible for the processing of the material, which may affect the final properties of the product, which may differ from the values given in this document.