

Safety Data Sheet of Fiberlogy CPE ANTIBAC 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 CPE ANTIBAC

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.
Brzezcie 387,
32-014 Brzezcie,
Poland
datasheets@fiberlab.com

1.4. EMERGENCY TELEPHONE NUMBER

112 (Europe)

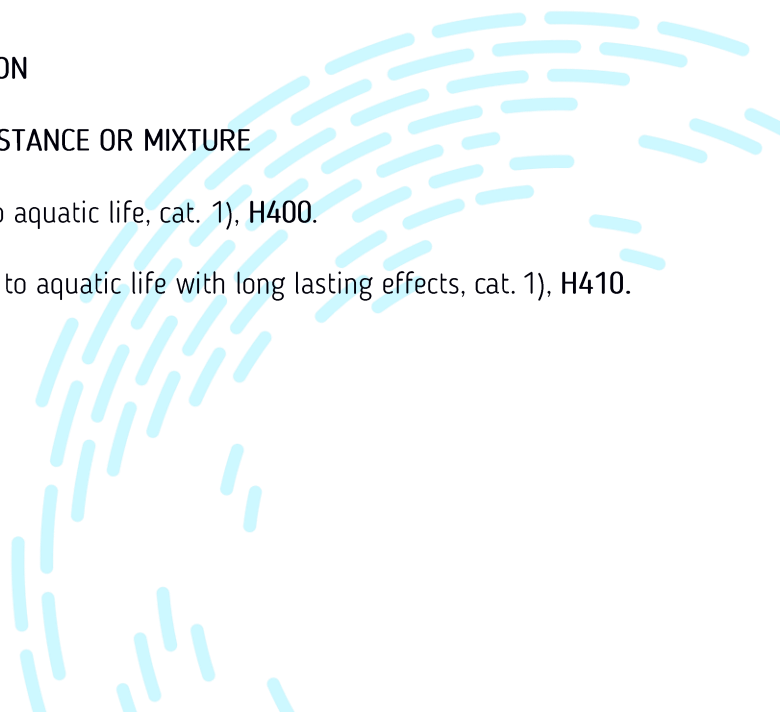
SECTION 2: HAZARDS IDENTIFICATION

2.1. CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

Aquatic Acute 1 (Very toxic to aquatic life, cat. 1), H400.

Aquatic Chronic 1 (Very toxic to aquatic life with long lasting effects, cat. 1), H410.

2.2. LABEL ELEMENTS



Hazard pictograms and signal word:



Dangerous components placed on the label:

Warning

Hazard statements:

H400 – Very toxic to aquatic life.

H410 – Very toxic to aquatic life with long lasting effects.

P273 – Avoid release to the environment.

Precautionary statements:

P501 – Dispose of contents/container into properly labeled waste containers.

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
Copolyester	-	-	>99	-	-
Zinc oxide	1314-13-2	-	<0.9	Very toxic to aquatic life – aquatic acute, cat. 1 – H400 (M=1); Very toxic to aquatic life with long lasting effects – aquatic chronic, cat. 1 H410 (M=1)	H400, H410
Silver	7440-22-4	-	<0.1	Very toxic to aquatic life – aquatic acute, cat. 1 – H400 (M=1000); Very toxic to aquatic life with long lasting effects – aquatic chronic, cat. 1 H410 (M=100)	H400, H410

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:	In contact with skin: redness, itching, mechanical irritation may occur. In contact with eyes: may cause redness, tearing, blurred vision. After ingestion: possible abdominal pain, nausea, vomiting, diarrhea. After inhalation exposure: high dust concentration of the product may cause coughing, irritation of the respiratory tract.
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

CPE ANTIBAC

In case of combustion: formation of carbon monoxide, carbon dioxide, metal oxides, 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

Substance	NDS	NSDCh
zinc oxide [CAS 1314-13-2] calculated as Zn - respirable fraction	5 mg/m ³	10 mg/m ³
silver [CAS 7440-22-4] - respirable fraction	0,05 mg/m ³	-

DNEL values for zinc oxide [CAS 1314-13-2]:

Inhalation, worker, long-term exposure:	5 mg/m ³
Skin, worker, long-term exposure:	83 mg/kg / 24 h
Inhalation, consumer, long-term exposure:	2,5 mg/m ³

PNEC values for zinc oxide [CAS 1314-13-2]:

Fresh Water:	21 µg/dm ³
Seawater:	6 µg/dm ³
Fresh water sediment:	118 mg/kg
Seawater sediment:	57 mg/kg
Soil:	35,6 mg/kg

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	Characteristic
Melting point / freezing point	No data
Boiling point	No data
Flammability	No data
Lower and upper explosion limit	No data
Flash point	No data
Auto-ignition temperature	The product does not undergo auto-ignition
Decomposition temperature	No data
pH	Not applicable
Kinematic viscosity	Not applicable
Solubility in water	Insoluble
Partition coefficient n-octanol/water (log value)	No data
Vapour pressure	Not applicable
Density and / or relative density	1,18 g/cm ³
Relative vapour density	Not applicable
Particle characteristics	Product in the form of filament with an average diameter of 1.75mm

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

Reactive product. Does not undergo dangerous polymerization.

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 all sources of ignition: heat, sparks, open flames.

Avoid temperatures above the decomposition temperature.

Protect from moisture.

10.5. INCOMPATIBLE MATERIALS

Strong oxidants.

10.6. HAZARDOUS DECOMPOSITION PRODUCTS

None, if the product is used as recommended. In case of fire, hazardous decomposition products (carbon monoxide, carbon dioxide, metal oxides, 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:**

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

11.1.2. Skin corrosion / irritation:

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

11.1.3. Serious eye damage / irritation:

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

11.1.4. Respiratory or skin sensitization:

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

11.1.5. Germ cell mutagenicity:

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

11.1.6. Carcinogenicity:

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

11.1.7. Reproductive toxicity:

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

11.1.8. STOT – single exposure:

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

11.1.9. STOT – repeated exposure:

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

11.1.10. Aspiration hazard:

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

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**

Zinc oxide toxicity (CAS 1314-13-2):

Fish toxicity LC ₅₀	0,17 mg/dm ³ /96 h/ <i>Oncorhynchus mykiss</i>
Daphnia toxicity EC ₅₀	0,41 mg/dm ³ /48 h / <i>Ceriodaphnia dubia</i>
Algae toxicity IC ₅₀	136 mg/dm ³ /72 h/ <i>Selenastrum capricornutum</i>

Do not allow the product to enter the sewage system, surface water, or soil. Very toxic to aquatic organisms, causing long-term effects.

12.2. PERSISTENCE AND DEGRADABILITY

No data.

12.3. BIOACCUMULATIVE POTENTIAL

No data.

12.4. MOBILITY IN SOIL

The mobility of the components of the mixture depends on their hydrophilic and hydrophobic properties and the abiotic and biotic conditions of the soil, including its structure, climatic conditions, season and soil organisms.

12.5. RESULTS OF PBT AND vPvB ASSESSMENT

CPE ANTIBAC

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

The mixture is not classified as posing a threat to the ozone layer. The possibility of other harmful effects of the individual components of the mixture on the environment (e.g. effects on the increase of global warming) should be considered.

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**14.1. UN NUMBER OR ID NUMBER**

UN 3077

14.2. UN PROPER SHIPPING NAME

Environmental hazardous material solid N.O.S. (silver)

14.3. TRANSPORT HAZARD CLASS(ES)

9

14.4. PACKING GROUP

III

14.5. ENVIRONMENTAL HAZARDS

The mixture poses a threat to the environment according to the criteria of the transport regulations.

14.6. SPECIAL PRECAUTIONS FOR USER

CPE ANTIBAC

Wear personal protective equipment according to Section 8 when handling cargo. If any material has escaped from the package and spilled inside the vehicle or container, the vehicle or container must not be used again until it has been thoroughly cleaned and, if necessary, disinfected or decontaminated. All other materials and items transported in that vehicle or container should be checked for possible contamination.

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.