# colorFabb PLA-HP

# Safety Data Sheet

COO Fabbo
Fabulous 3D printing filament

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

Issue date: 19/10/2022 Revision date: 19/10/2022 Supersedes version of: 19/10/2022 Version: 1.0

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

### 1.1. Product identifier

Product form : Mixture

Trade name : colorFabb PLA-HP

Type of product : Polymers

Synonyms : colorFabb PLA-HP White / colorFabb PLA-HP Silver

Product group : Trade product

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

### 1.2.1. Relevant identified uses

Industrial/Professional use spec : For professional use only

Use of the substance/mixture : Thermoplastic filament (FDM 3D printig)

Function or use category : Plastic articles

1.2.2. Uses advised against

Restrictions on use : Pharmaceuticals, Cosmetics, personal care products, Medical devices

### 1.3. Details of the supplier of the safety data sheet

colorFabb B.V. B.V. Bremweg , 7

NL-5951 DK Belfeld

T + 31 (0)77 - 466 40 15 - F + 31 (0)77 - 397 14 14 <u>support@colorfabb.com</u> - <u>www.colorfabb.com</u>

E-mail address of competent person responsible for the SDS: sds@clapit.de

### 1.4. Emergency telephone number

Emergency number : 0049 2153 12 996 55 (Mo-Fr 10:00-18:00)

### **SECTION 2: Hazards identification**

### 2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008

Not classified

## Adverse physicochemical, human health and environmental effects

To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice.

# 2.2. Label elements

# Labelling according to Regulation (EC) No. 1272/2008

EUH-statements : EUH210 - Safety data sheet available on request.

### 2.3. Other hazards

Contains no PBT/vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

Other information : This product is exempted from labelling according to Regulation (EC) No 1272/2008.

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605

# **SECTION 3: Composition/information on ingredients**

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008
aluminium powder (stabilised) substance with national workplace exposure limit(s) (IE) (Note T)	CAS-No.: 7429-90-5 EC-No.: 231-072-3 EC Index-No.: 013-002-00-1	1 – < 3	Water-react. 2, H261 Flam. Sol. 1, H228
Titanium dioxide substance with national workplace exposure limit(s) (IE)	CAS-No.: 13463-67-7 EC-No.: 236-675-5 EC Index-No.: 022-006-002	0.1 – < 1	Carc. 2, H351

Note T: This substance may be marketed in a form which does not have the physical hazards as indicated by the classification in the entry in Part 3. If the results of the relevant method or methods in accordance with Part 2 of Annex I of this Regulation show that the specific form of substance marketed does not exhibit this physical property or these physical hazards, the substance shall be classified in accordance with the result or results of this test or these tests. Relevant information, including reference to the relevant test method(s) shall be included in the safety data sheet. Full text of H and EUH statements: see section 16

### SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures general : Get medical advice/attention if you feel unwell.

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact : Wash skin with plenty of water.
First-aid measures after eye contact : Rinse eyes with water as a precaution.

First-aid measures after ingestion : Call a poison center or a doctor if you feel unwell.

### 4.2. Most important symptoms and effects, both acute and delayed

No additional information available

### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

### SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Unsuitable extinguishing media : Do not use a heavy water stream.

### 5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire : Toxic fumes may be released.

### 5.3. Advice for firefighters

Protection during firefighting

: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

### SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

### 6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information

refer to section 8: "Exposure controls/personal protection".

### 6.2. Environmental precautions

Avoid release to the environment.

### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Mechanically recover the product.

Other information : Dispose of materials or solid residues at an authorized site.

### 6.4. Reference to other sections

For further information refer to section 13.

### SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Wear personal protective equipment.

Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the

product.

### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a well-ventilated place. Keep cool.

# 7.3. Specific end use(s)

Thermoplastic filament (FDM 3D printig).

# SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

# 8.1.1 National occupational exposure and biological limit values

Titanium dioxide (13463-67-7)	
Ireland - Occupational Exposure Limits	
Local name	Titanium dioxide
OEL TWA [1]	4 mg/m³ respirable dust 10 mg/m³ total inhalable dust
Regulatory reference	Chemical Agents Code of Practice 2020
aluminium powder (stabilised) (7429-90-5)	
Ireland - Occupational Exposure Limits	
Local name	Aluminium metal
OEL TWA [1]	1 mg/m³ R (Respirable Fraction)
legulatory reference Chemical Agents Code of Practice 2020	

## 8.1.2. Recommended monitoring procedures

No additional information available

### 8.1.3. Air contaminants formed

No additional information available

### 8.1.4. DNEL and PNEC

No additional information available

### 8.1.5. Control banding

No additional information available

### 8.2. Exposure controls

# 8.2.1. Appropriate engineering controls

### Appropriate engineering controls:

Ensure good ventilation of the work station.

### 8.2.2. Personal protection equipment

### 8.2.2.1. Eye and face protection

## Eye protection:

Safety glasses

# 8.2.2.2. Skin protection

## Skin and body protection:

Wear suitable protective clothing

# Hand protection:

Protective gloves

Vapour pressure

# 8.2.2.3. Respiratory protection

### Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

# 8.2.2.4. Thermal hazards

No additional information available

# 8.2.3. Environmental exposure controls

### **Environmental exposure controls:**

Avoid release to the environment.

### SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state : Solid
Colour : Various.

Appearance : Thermoplastic filament.

Odour : characteristic. Odour threshold : Not available Melting point : Not available Freezing point : Not applicable Boiling point : Not available Flammability : Non flammable. **Explosive limits** : Not applicable Lower explosion limit : Not applicable Upper explosion limit : Not applicable Flash point : Not applicable Auto-ignition temperature : Not applicable Decomposition temperature : Not available рΗ : Not available : Not available pH solution : Not applicable Viscosity, kinematic : Not available Solubility Partition coefficient n-octanol/water (Log Kow) : Not available

: Not available

: Not available Vapour pressure at 50 °C : Not available Density Relative density : Not available Relative vapour density at 20 °C : Not applicable Particle size : Not available Particle size distribution : Not available : Not available Particle shape : Not available Particle aspect ratio : Not available Particle aggregation state Particle agglomeration state : Not available Particle specific surface area : Not available Particle dustiness : Not available

## 9.2.1. Information with regard to physical hazard classes

No additional information available

# 9.2.2. Other safety characteristics

No additional information available

The product is non-reactive under normal conditions of use, storage and transport.

Stable under normal conditions.

No dangerous reactions known under normal conditions of use.

# 10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

No additional information available

Acute toxicity (oral)

# 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

: Not classified

reare terminy (definion)	Not classified Not classified
LD50 oral rat	> 5000 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 425 (Acute Oral Toxicity: Up-and-Down Procedure), Guideline: EPA OPPTS 870.1100 (Acute Oral Toxicity)
LD50 oral rat	> 15900 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity)
LC50 Inhalation - Rat	> 0.888 mg/l air Animal: rat, Animal sex: male, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity)
Skin corrosion/irritation :	Not classified

рН	7
Serious eye damage/irritation :	Not classified
рН	7

Respiratory or skin sensitisation :	Not classified
Germ cell mutagenicity :	Not classified
Carcinogenicity :	Not classified
Reproductive toxicity :	Not classified
NOAEL (animal/male, F0/P)	1000 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)
STOT-single exposure :	Not classified
STOT-repeated exposure :	Not classified
LOAEC (inhalation, rat,dust/mist/fume, 90 days)	0.05 mg/l air Animal: rat, Guideline: OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day Study)
Aspiration hazard :	Not classified
Viscosity, kinematic	Not applicable

### 11.2. Information on other hazards

No additional information available

# SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse

effects in the environment.

: Not classified

 $\label{thm:local_equation} \mbox{Hazardous to the aquatic environment, short-term}$ 

(acute)

Hazardous to the aquatic environment, long-term : Not classified

(chronic)

Not rapidly degradable

Not rapidly degradable	
LC50 - Fish [1]	155 mg/l Test organisms (species): other:Japanese Medaka
EC50 - Crustacea [1]	19.3 mg/l Test organisms (species): Daphnia magna
EC50 - Crustacea [2]	27.8 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	> 100 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
NOEC (chronic)	≥ 2.92 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
EC50 72h - Algae [1]	1.05 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
EC50 72h - Algae [2]	0.2 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)

### 12.2. Persistence and degradability

No additional information available

### 12.3. Bioaccumulative potentia

No additional information available

# 12.4. Mobility in soil

No additional information available

### 12.5. Results of PBT and vPvB assessment

No additional information available

### 12.6. Endocrine disrupting properties

No additional information available

### 12.7. Other adverse effects

No additional information available

# SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

European List of Waste (LoW) code : 15 01 10\* - packaging containing residues of or contaminated by dangerous substances

16 01 19 - Plastic

### SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

### 14.1. UN number or ID number

UN-No. (ADR) : Not applicable UN-No. (IMDG) : Not applicable UN-No. (IATA) : Not applicable UN-No. (ADN) : Not regulated UN-No. (RID) : Not applicable

### 14.2. UN proper shipping name

Proper Shipping Name (ADR) : Not applicable
Proper Shipping Name (IMDG) : Not applicable
Proper Shipping Name (IATA) : Not applicable
Proper Shipping Name (ADN) : Not regulated
Proper Shipping Name (RID) : Not applicable

### 14.3. Transport hazard class(es)

### **ADR**

Transport hazard class(es) (ADR) : Not applicable

**IMDG** 

Transport hazard class(es) (IMDG) : Not applicable

IATA

Transport hazard class(es) (IATA) : Not applicable

ADN

Transport hazard class(es) (ADN) : Not regulated

RID

Transport hazard class(es) (RID) : Not applicable

# 14.4. Packing group

Packing group (ADR) : Not applicable
Packing group (IMDG) : Not applicable
Packing group (IATA) : Not applicable
Packing group (ADN) : Not regulated
Packing group (RID) : Not applicable

### 14.5. Environmental hazards

Dangerous for the environment : No Marine pollutant : No

Other information : No supplementary information available

### 14.6. Special precautions for user

# Overland transport

Not applicable

# Transport by sea

Not applicable

### Air transport

Not applicable

### Inland waterway transport

Not regulated

### Rail transport

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

### 15.1.1. EU-Regulations

## **REACH Annex XVII (Restriction List)**

Contains no REACH substances with Annex XVII restrictions

**EU restriction list (REACH Annex XVII)** 

### **Entry 75 ingredient information**

### **REACH Annex XIV (Authorisation List)**

Contains no REACH Annex XIV substances

### **REACH Candidate List (SVHC)**

Contains no substance on the REACH candidate list

# **PIC Regulation (Prior Informed Consent)**

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

# **POP Regulation (Persistent Organic Pollutants)**

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

## Ozone Regulation (1005/2009)

Contains no substance subject to REGULATION (EU) No 1005/2009 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 September 2009 on substances that deplete the ozone layer.

## **Explosives Precursors Regulation (2019/1148)**

Contains no substance subject to Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 on the marketing and use of explosives precursors.

### **Drug Precursors Regulation (273/2004)**

Contains no substance subject to Regulation (EC) 273/2004 of the European Parliament and of the Council of 11 February 2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances.

# 15.1.2. National regulations

No additional information available

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

### SECTION 16: Other information

Abbreviations and acronyms:	
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate

BLV Biological limit value BOD Biochemical oxygen demand (BOD) COD Chemical oxygen demand (COD) DMEL Derived Minimal Effect level DNEL Derived-No Effect Level EC-No. European Community number EC50 Median effective concentration EN European Standard IARC International Agency for Research on Cancer IATA International Air Transport Association IMDG International Maritime Dangerous Goods LC50 Median lethal dose LC50 Median lethal dose LC50 Median lethal dose LOAEL Lowest Observed Adverse Effect Level NOAEC No-Observed Adverse Effect Level NOAEC No-Observed Adverse Effect Level NOAEC No-Observed Effect Concentration CECD Organisation for Economic Co-operation and Development OEL Occupational Exposure Limit PBT Persistent Bioaccumulative Toxic PNEC Predicted No-Effect Concentration RID Regulations concentration RID Regulations concentration ThOD Theoretical oxygen demand (ThOD) TLM Median Tolarance Limit VOC Volatile Organic Compounds CAS-No. Chemical Abstract Service number NO.S. Not Otherwise Specified VPVB Very Persistent and Very Bioaccumulative ED Endocrine disrupting properties	BCF	Bioconcentration factor
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DMEL Derived Minimal Effect level  DNEL Derived-No Effect Level  EC-No. European Community number  EC50 Median effective concentration  EN European Standard  IARC International Agency for Research on Cancer  IATA International Air Transport Association  IMDG International Maritime Dangerous Goods  LC50 Median lethal concentration  LD50 Median lethal dose  LOAEL Lowest Observed Adverse Effect Level  NOAEC No-Observed Adverse Effect Concentration  NOAEL No-Observed Adverse Effect Level  NOAEL No-Observed Effect Concentration  OECD Organisation for Economic Co-operation and Development  OEL Occupational Exposure Limit  PBT Persistent Bioaccumulative Toxic  PNEC Predicted No-Effect Concentration  RID Regulations concerning the International Carriage of Dangerous Goods by Rail  SDS Safety Data Sheet  STP Sewage treatment plant  ThOD Theoretical oxygen demand (ThOD)  TLM Median Tolerance Limit  VOC Volatile Organic Compounds  CAS-No. Chemical Abstract Service number  N.O.S. Not Otherwise Specified  vPvB Very Persistent and Very Bioaccumulative	BOD	Biochemical oxygen demand (BOD)
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OECD Organisation for Economic Co-operation and Development  OEL Occupational Exposure Limit  PBT Persistent Bioaccumulative Toxic  PNEC Predicted No-Effect Concentration  RID Regulations concerning the International Carriage of Dangerous Goods by Rail  SDS Safety Data Sheet  STP Sewage treatment plant  ThOD Theoretical oxygen demand (ThOD)  TLM Median Tolerance Limit  VOC Volatile Organic Compounds  CAS-No. Chemical Abstract Service number  N.O.S. Not Otherwise Specified  vPvB Very Persistent and Very Bioaccumulative	NOAEL	No-Observed Adverse Effect Level
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PBT Persistent Bioaccumulative Toxic  PNEC Predicted No-Effect Concentration  RID Regulations concerning the International Carriage of Dangerous Goods by Rail  SDS Safety Data Sheet  STP Sewage treatment plant  ThOD Theoretical oxygen demand (ThOD)  TLM Median Tolerance Limit  VOC Volatile Organic Compounds  CAS-No. Chemical Abstract Service number  N.O.S. Not Otherwise Specified  vPvB Very Persistent and Very Bioaccumulative	OECD	Organisation for Economic Co-operation and Development
PNEC Predicted No-Effect Concentration  RID Regulations concerning the International Carriage of Dangerous Goods by Rail  SDS Safety Data Sheet  STP Sewage treatment plant  ThOD Theoretical oxygen demand (ThOD)  TLM Median Tolerance Limit  VOC Volatile Organic Compounds  CAS-No. Chemical Abstract Service number  N.O.S. Not Otherwise Specified  vPvB Very Persistent and Very Bioaccumulative	OEL	Occupational Exposure Limit
RID Regulations concerning the International Carriage of Dangerous Goods by Rail  SDS Safety Data Sheet  STP Sewage treatment plant  ThOD Theoretical oxygen demand (ThOD)  TLM Median Tolerance Limit  VOC Volatile Organic Compounds  CAS-No. Chemical Abstract Service number  N.O.S. Not Otherwise Specified  vPvB Very Persistent and Very Bioaccumulative	PBT	Persistent Bioaccumulative Toxic
SDS Safety Data Sheet  STP Sewage treatment plant  ThOD Theoretical oxygen demand (ThOD)  TLM Median Tolerance Limit  VOC Volatile Organic Compounds  CAS-No. Chemical Abstract Service number  N.O.S. Not Otherwise Specified  vPvB Very Persistent and Very Bioaccumulative	PNEC	Predicted No-Effect Concentration
STP Sewage treatment plant  ThOD Theoretical oxygen demand (ThOD)  TLM Median Tolerance Limit  VOC Volatile Organic Compounds  CAS-No. Chemical Abstract Service number  N.O.S. Not Otherwise Specified  vPvB Very Persistent and Very Bioaccumulative	RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
ThOD Theoretical oxygen demand (ThOD)  TLM Median Tolerance Limit  VOC Volatile Organic Compounds  CAS-No. Chemical Abstract Service number  N.O.S. Not Otherwise Specified  vPvB Very Persistent and Very Bioaccumulative	SDS	Safety Data Sheet
TLM Median Tolerance Limit  VOC Volatile Organic Compounds  CAS-No. Chemical Abstract Service number  N.O.S. Not Otherwise Specified  vPvB Very Persistent and Very Bioaccumulative	STP	Sewage treatment plant
VOC Volatile Organic Compounds  CAS-No. Chemical Abstract Service number  N.O.S. Not Otherwise Specified  vPvB Very Persistent and Very Bioaccumulative	ThOD	Theoretical oxygen demand (ThOD)
CAS-No. Chemical Abstract Service number  N.O.S. Not Otherwise Specified  vPvB Very Persistent and Very Bioaccumulative	TLM	Median Tolerance Limit
N.O.S. Not Otherwise Specified  vPvB Very Persistent and Very Bioaccumulative	VOC	Volatile Organic Compounds
vPvB Very Persistent and Very Bioaccumulative	CAS-No.	Chemical Abstract Service number
	N.O.S.	Not Otherwise Specified
ED Endocrine disrupting properties	vPvB	Very Persistent and Very Bioaccumulative
	ED	Endocrine disrupting properties

Full text of H- and EUH-statements:	
Carc. 2	Carcinogenicity, Category 2
EUH210	Safety data sheet available on request.
Flam. Sol. 1	Flammable solids, Category 1
H228	Flammable solid.
H261	In contact with water releases flammable gases.
H351	Suspected of causing cancer.
Water-react. 2	Substances and Mixtures which, in contact with water, emit flammable gases, Category 2

### Full text of use descriptors

### Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

The classification complies with : ATP 12

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.