# colorFabb BronzeFill

# Safety Data Sheet

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



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

#### 1.1. Product identifier

Trade name UFI Product code Type of product	:	Mixture colorFabb BronzeFill VCU0-50FV-D00H-SWAG 307 Thermoplastic filament Trade product
Product group	:	Trade product

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

#### 1.2.1. Relevant identified uses

Intended for general public

Main use category	: Professional use
Use of the substance/mixture	: Thermoplastic filament (FDM 3D printig)
	Manufacture of plastics products

#### 1.2.2. Uses advised against

Restrictions on use

: Cosmetics, Food/feedstuff additives

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

colorFabb B.V.
Bremweg 7
5951 DK Belfeld
T + 31 (0)77 - 466 40 15 - F + 31 (0)77 - 397 14 14
support@colorfabb.com - www.colorfabb.com
E-mail address of competent person responsible for the SDS : <u>sds@clapit.de</u>

#### 1.4. Emergency telephone number

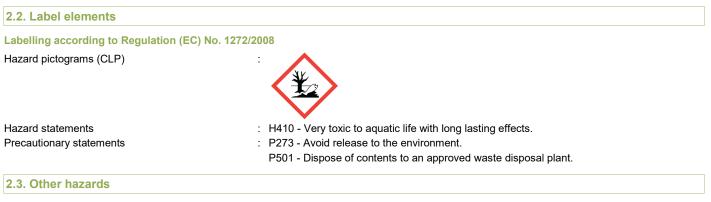
#### Emergency number

: 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 Aquatic Acute 1 H400 Aquatic Chronic 2 H411 Full text of hazard classes and H-statements : see section 16

#### Adverse physicochemical, human health and environmental effects

Very toxic to aquatic life. Toxic to aquatic life with long lasting effects.



Other hazards which do not result in classification : None under normal conditions.

The product does not meet the PBT and vPvB classification criteria

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
Copper substance with national workplace exposure limit(s) (GB)	CAS-No.: 7440-50-8 EC-No.: 231-159-6	1.25 – 15	Aquatic Acute 1, H400 Aquatic Chronic 3, H412
Tin	CAS-No.: 7440-31-5 EC-No.: 231-141-8	0.25 – 5	Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410

Full text of H-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 e	ffects, both acute and delayed		
Symptoms/effects	: Not expected to present a significant hazard under anticipated conditions of normal use.		
Symptoms/effects after inhalation	: None under normal use.		
Symptoms/effects after skin contact	: None under normal conditions.		
Symptoms/effects after eye contact	: Direct contact with the eyes is likely to be irritating.		
Symptoms/effects after ingestion	May cause irritation to the digestive tract.		

#### 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.

5.2. Special hazards arising from the substance or mixture			
Fire hazard	: In case of fire and/or explosion do not breathe fumes.		
Hazardous decomposition products in case of fire	: Toxic fumes may be released.		
5.3. Advice for firefighters			
Firefighting instructions	: Do not enter fire area without proper protective equipment, including respiratory protection. Exercise caution when fighting any chemical fire.		
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 Protective equipment : Wear recommended personal protective equipment. 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.

For containment	: Collect spillage.
Methods for cleaning up	: Mechanically recover the product.
Other information	: Dispose of materials or solid residues at an authorized site.

For further information refer to section 13.

SECTION 7: Handling and stor		
7.1. Precautions for safe handling		
Precautions for safe handling Hygiene measures	<ul> <li>Ensure good ventilation of the work station. Wear personal protective equipment.</li> <li>Do not eat, drink or smoke when using this product. Always wash hands after handling the</li> </ul>	
7.2. Conditions for onfo stores i	product.	
7.2. Conditions for safe storage, in		
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

Copper (7440-50-8) EU - Indicative Occupational Exposure Limit (IOEL)				
Local name	Copper			
Notes	(Year of adoption 2014)			
Regulatory reference	SCOEL Recommendations			
United Kingdom - Occupational Exposure Limits				
Local name	Copper			
WEL TWA (OEL TWA) [1]	1 mg/m <sup>3</sup> and compounds, dusts and mists (as Cu)			
	0.2 mg/m³ fume (as Cu)			

WEL STEL (OEL STEL)

Regulatory reference

Tin (7440-31-5)

#### EU - Indicative Occupational Exposure Limit (IOEL)

Local name Regulatory reference Tin (inorganic compounds as Sn) COMMISSION DIRECTIVE 91/322/EEC

EH40/2005 (Fourth edition, 2020). HSE

2 mg/m<sup>3</sup> and compounds, dusts and mists (as Cu)

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

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	:	slight.
Odour threshold	:	Not available
Melting point	:	Not available
Freezing point	:	Not applicable
Boiling point	:	Not available
Flammability	:	Non flammable.
Explosive limits	:	Not applicable
Lower explosive limit (LEL)	:	Not applicable
Upper explosive limit (UEL)	:	Not applicable
Flash point	:	Not applicable
Auto-ignition temperature	:	Not applicable
Decomposition temperature	:	Not available

#### 9.2. Other information

#### 9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

No additional information available

# **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

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

**10.2.** Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

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

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

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

SECTION 11: Toxicological information		
11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008		
Acute toxicity (oral)	: Not classified	
Acute toxicity (dermal)	: Not classified	
Acute toxicity (inhalation)	: Not classified	
Copper (7440-50-8)		
LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), Guideline: EU Method B.3 (Acute Toxicity (Dermal)), Guideline: EPA OTS 798.1100 (Acute Dermal Toxicity), Guideline: other:MAFF 4200 (1985)	
LC50 Inhalation - Rat	> 5.11 mg/l air Animal: rat, Guideline: OECD Guideline 436 (Acute Inhalation Toxicity: Acute Toxic Class Method)	
Tin (7440-31-5)		
LD50 oral rat	> 2000 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 423 (Acute Oral toxicity - Acute Toxic Class Method)	

LD50 dermal rat > 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), Guideline: EU Method B.3 (Acute Toxicity (Dermal)) LC50 Inhalation - Rat > 4.75 mg/l air Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity), Guideline: EU Method B.2 (Acute Toxicity (Inhalation)), Guideline: EPA OPPTS 870.1300 (Acute inhalation toxicity) : Not classified Skin corrosion/irritation : Not classified Serious eye damage/irritation : Not classified Respiratory or skin sensitisation : Not classified Germ cell mutagenicity : Not classified Carcinogenicity : Not classified Reproductive toxicity STOT-single exposure : Not classified STOT-repeated exposure : Not classified Aspiration hazard : Not classified colorFabb BronzeFill Viscosity, kinematic Not applicable

#### 11.2. Information on other hazards

No additional information available

SECTION 12: Ecological information		
12.1. Toxicity		
<i></i>	<ul> <li>Very toxic to aquatic life. Toxic to aquatic life with long lasting effects.</li> <li>Very toxic to aquatic life.</li> </ul>	
	: Toxic to aquatic life with long lasting effects.	
Tin (7440-31-5)		
LC50 - Fish [1]	> 12.4 μg/l Test organisms (species): Pimephales promelas	
12.2. Persistence and degradability		
No additional information available		
12.3. Bioaccumulative potential		
No additional information available		
12.4. Mobility in soil		
No additional information available		
12.5. Results of PBT and vPvB assessment		
colorFabb BronzeFill		
The product does not meet the PBT and vPvB classifi	cation criteria	
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		
Regional legislation (waste)	: Disposal must be done according to official regulations.	
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.	
Sewage disposal recommendations	: Disposal must be done according to official regulations.	
Product/Packaging disposal recommendations	: Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.	

# SECTION 14: Transport information

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

: Yes	
: Not applicable	
: Not regulated	
: Not applicable	
: Not applicable	
: Not applicable	
: Not applicable	
. Hottoymutou	
· Not regulated	
: Not applicable	
: Not applicable	
: Not applicable	
: Not applicable	
: Not regulated	
: Not applicable	
· Not applicable	
: Not applicable	
	<ul> <li>Not applicable</li> </ul>

Overland transport Not applicable

Transport by sea Not applicable

Air transport Not applicable

Inland waterway transport Not regulated

#### 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

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

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.

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

#### 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**

Section	Changed item	Change	Comments
	Supersedes version of	Added	
	Revision date	Added	
1.1	Trade name	Modified	
1.1	Name	Modified	
2.2	Precautionary statements	Modified	
3	Composition/information on ingredients	Modified	
Abbrevietiene and ee			
Abbreviations and ac			
ADN	European Agreement concerning the Internatio		
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road		
ATE	Acute Toxicity Estimate		
BCF	Bioconcentration factor		
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		
ΙΑΤΑ	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		
NOEC	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
ED	Endocrine disrupting properties

Full text of H- and EUH-statements	
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]		
Aquatic Acute 1	H400	Calculation method
Aquatic Chronic 2	H411	Calculation method
The classification comp	lies 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.