colorFabb BronzeFill

Safety Data Sheet

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



Issue date: 28/04/2021 Revision date: 28/04/2021 Supersedes version of: 28/04/2021 Version: 1.0

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
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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 <u>support@colorfabb.com</u> - <u>www.colorfabb.com</u> 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)

Organisation/Company	
oisons Information Centre	
Hospital	
(

Address	
PO Box 1297	
Beaumont Road	
9 Dublin	

 Emergency number
 Comment

 +353 1 809 2566
 (Healthcare professionals

 (Healthcare professionals 24/7)

 +353 1 809 2166 (public,
 8am - 10pm, 7/7)

SECTION 2: Hazards identification

2.1. Classification of the substance or n	nixture	
Classification according to Regulation (EC) N	lo. 1272/2008	
Aquatic Acute 1	H400	
Aquatic Chronic 2	H411	
Full text of hazard classes and H-statements : se	e section 16	

Adverse physicochemical, human health and environmental effects

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

2.2. Label elements		
Labelling according to Regulation (EC)	No. 1272/2008	
Hazard pictograms (CLP)		
Hazard statements	: H410 - Very toxic to aquatic life with long lasting effects.	
Precautionary statements	: P273 - Avoid release to the environment.	
	P501 - Dispose of contents to an approved waste disposal plant.	
2.3. Other hazards		

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) (IE)	CAS-No.: 7440-50-8 EC-No.: 231-159-6	1.25 – 15	Aquatic Acute 1, H400 Aquatic Chronic 3, H412
Tin substance with national workplace exposure limit(s) (IE)	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.			
6.3. Methods and material for contain	nment and cleaning up		
For containment	: Collect spillage.		
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 stor	age
7.1. Precautions for safe handling	
Precautions for safe handling Hygiene measures	 Ensure good ventilation of the work station. Wear personal protective equipment. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
7.2. Conditions for safe storage, in	ncluding 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 con	trols/personal	protection
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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 Ireland - Occupational Exposure Limits Local name OEL TWA [1]

Regulatory reference

Tin (7440-31-5)

EU - Indicative Occupational Exposure Limit (IOEL)

Local name Regulatory reference Ireland - Occupational Exposure Limits Local name OEL TWA [1]

OEL STEL Notes (IE) Regulatory reference

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 Colour Appearance

- : Solid : Various.
 - : Thermoplastic filament.

1 mg/m³ Dusts and mists Chemical Agents Code of Practice 2020

SCOEL Recommendations

Copper (as Cu) 0.2 mg/m³ Fume

Tin (inorganic compounds as Sn) COMMISSION DIRECTIVE 91/322/EEC

Tin, as Sn 2 mg/m³ Oxide & inorganic compounds, except tin hydride 0.1 mg/m³ Organic compounds 2 mg/m³ Metal 0.2 mg/m³ Organic compounds IOELV (Indicative Occupational Exposure Limit Values) Chemical Agents Code of Practice 2020

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
pH	: Not available
pH solution	: Not available
Viscosity, kinematic	: Not applicable
Solubility	: Not available
Partition coefficient n-octanol/water (Log Kow)	: Not available
Vapour pressure	: Not available
Vapour pressure at 50 °C	: Not available
Density	: Not available
Relative density	: Not available
Relative vapour density at 20 °C	: Not applicable
Particle size	: Not available
Particle size distribution	: Not available
Particle shape	: Not available
Particle aspect ratio	: Not available
Particle aggregation state	: Not available
Particle agglomeration state	: Not available
Particle specific surface area	: Not available
Particle dustiness	: 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)
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	: Not classified
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
2.1. Toxicity
cology - general: Very toxic to aquatic life. Toxic to aquatic life with long lasting effects.lazardous to the aquatic environment, short-term: Very toxic to aquatic life.acute): Very toxic to aquatic life.
azardous to the aquatic environment, long-term : Toxic to aquatic life with long lasting effects. chronic)
lot rapidly degradable
in (7440-31-5)
C50 - Fish [1] > 12.4 μg/l Test organisms (species): Pimephales promelas
2.2. Persistence and degradability
o additional information available
2.3. Bioaccumulative potential
lo additional information available
2.4. Mobility in soil
lo additional information available
2.5. Results of PBT and vPvB assessment
olorFabb BronzeFill
he product does not meet the PBT and vPvB classification criteria
2.6. Endocrine disrupting properties
o additional information available
2.7. Other adverse effects
lo additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional legislation (waste) Waste treatment methods	 Disposal must be done according to official regulations. Dispose of contents/container in accordance with licensed collector's sorting instructions.
Sewage disposal recommendations	 Dispose of contents/container in accordance with incensed collector's sorting instructions. 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
roducin ackaging disposal recommendations	with local, regional, national and/or international regulation.
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
1474	
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	: Yes
Marine pollutant	: Yes
Other information	: No supplementary information available
14.6. Special precautions for user	

Overland transport

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

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	

Abbreviations and ac	ronyms
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
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
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
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 compl	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.