# colorFabb CopperFill

# 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

Product form	: Mixture
Trade name	: colorFabb CopperFill
UFI	: 9FU0-P058-Q001-E7WJ
Product code	: 308
Type of product	: Thermoplastic filament
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 <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)

# **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

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	2.5 – 10	Aquatic Acute 1, H400 Aquatic Chronic 3, H412
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 ef	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 subst	tance 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	<ul> <li>Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.</li> </ul>

# 6.1. Personal precautions, protective equipment and emergency procedures 6.1.1. For non-emergency personnel Protective equipment : Wear recommended personal protective equipment. : Ventilate spillage area. Emergency procedures 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 stor	age
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 product.</li> </ul>
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 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)	2 mg/m <sup>3</sup> and compounds, dusts and mists (as Cu)
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE
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	

### 8.2.1. 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
рН	: 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**

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: Acut Toxic Class Method)
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 CopperFill	
Viscosity, kinematic	Not applicable

No additional information available

# SECTION 12: Ecological information

OLOHON 12. Leonogical 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.
Hazardous to the aquatic environment, short-term (acute)	: Not classified
Hazardous to the aquatic environment, long-term (chronic)	: Not classified
Not rapidly degradable	
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 assessmer	nt
colorFabb CopperFill	
The product does not meet the PBT and vPvB class	sification 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.	
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
ΙΑΤΑ	
Transport hazard class(es) (IATA)	: Not applicable
ADN	
Transport hazard class(es) (ADN)	: Not regulated
RID	
<b>RID</b> 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

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

# 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 acronyms					
ADN	European Agreement concerning the Internation	onal Carriage of Danger	ous 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					
IATA	International Agency for Research on Cancer International Air Transport Association				
IMDG	•				
LC50	International Maritime Dangerous Goods Median lethal concentration				
LD50					
LOAEL	Median lethal dose				
NOAEC	Lowest Observed Adverse Effect Level No-Observed Adverse Effect Concentration				
NOAEL	No-Observed Adverse Effect Concentration				
NOEC					
	No-Observed Effect Concentration				
OECD	Organisation for Economic Co-operation and E	levelopment			
OEL	Occupational Exposure Limit				
PBT	Persistent Bioaccumulative Toxic				
PNEC	Predicted No-Effect Concentration				
RID	Regulations concerning the International Carria	age of Dangerous Good	s 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 I	EUH-statements
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3
H400	Very toxic to aquatic life.
H412	Harmful to aquatic life with long lasting effects.
EUH210	Safety data sheet available on request.

## 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.