Globally Harmonized System of Classification and Labelling of Chemicals (GHS)



## KU F 280 Copper Powder

Version 3.0

Revision Date 26.09.2023

Print Date 03.12.2024

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

#### **1.1 Product identifier**

Trade name	: KU F 280 Copper Powder
Material number	: 060504VZ0

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

This information is not available.

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

Company	: ECKART GmbH Guentersthal 4
	91235 Hartenstein
Telephone	: +499152770
Telefax	: +499152777008
E-mail address	: msds.eckart@altana.com
Responsible/issuing person	

#### 1.4 Emergency telephone number

#### NCEC: (contract no.: ECKART29003-NCEC) +44 1235 239671 (Middle East/Africa, call and response in your language) +1 215 207 0061 (Americas, call and response in your language) +65 3158 1074 (Asia-Pacific, call and response in your language)

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

#### **GHS Classification**

: Acute toxicity, Category 4, Oral, H302 Serious eye damage/eye irritation, Category 2A, H319 Short-term (acute) aquatic hazard, Category 1, H400

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	Long-term (chronic) aquatic hazard,	Category 1, H410
GHS-Labelling		
Symbol(s)		
Signal word	: Warning	
Hazard statements	<ul> <li>H302: Harmful if swallowed.</li> <li>H319: Causes serious eye irritation.</li> <li>H410: Very toxic to aquatic life with log</li> </ul>	ong lasting effects.
Precautionary statements	water for several minutes. Remove c and easy to do. Continue rinsing.	then using this product. ment. rotection. WED: Get medical help. Rinse cautiously with ontact lenses, if present sts: Get medical help.
Hazardous components w	hich must be listed on the label	
ldentification copper	CAS-No.	

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Combustible Solids

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

:

Substance No.

#### Hazardous components

Chemical name	CAS-No. EINECS-No.	Classification and labelling	Concentration[%]
copper	Not Assigned	Acute Tox.;4;H302 Eye Dam./Irrit.;2A;H319 Aquatic Acute;1;H400 Aquatic Chronic;1;H410	50 - 100

For the full text of the H-Statements mentioned in this Section, see Section 16.

#### **SECTION 4: First aid measures**

#### 4.1 Description of first aid measures

General advice	: Move the victim to fresh air. Move out of dangerous area. Show this safety data sheet to a Do not leave the victim unatten		
If inhaled	: If unconscious, place in recove advice.		
	If symptoms persist, call a phys		
In case of skin contact	: Wash off immediately with soap	p and plenty of water.	
In case of eye contact	<ul> <li>Immediately flush eye(s) with p Remove contact lenses.</li> <li>Keep eye wide open while rinsi</li> </ul>		
	If eye irritation persists, consult	•	
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If swallowed :		
	Keep respiratory tract clear.	

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

This information is not available.

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

This information is not available.

#### **SECTION 5: Firefighting measures**

#### 5.1 Extinguishing media Suitable extinguishing media : Special powder against metal fire, Dry sand, ABC powder Unsuitable extinguishing : Water, High volume water jet, Carbon dioxide (CO2) media 5.2 Special hazards arising from the substance or mixture Specific hazards during : Do not allow run-off from fire fighting to enter drains or water firefighting courses. 5.3 Advice for firefighters Special protective equipment : Wear self-contained breathing apparatus for firefighting if for firefighters necessary. Further information : Standard procedure for chemical fires. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

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#### **SECTION 6: Accidental release measures**

6.1 Personal precautions, protective	equipment and emergency procedures
Personal precautions :	Use personal protective equipment. Evacuate personnel to safe areas. Use personal protective equipment. Avoid dust formation. Avoid breathing dust.
6.2 Environmental precautions	
Environmental precautions :	The product should not be allowed to enter drains, water courses or the soil.
	Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.
6.3 Methods and materials for contain	nment and cleaning up
Methods for cleaning up :	Use mechanical handling equipment. Pick up and transfer to properly labelled containers. Keep in suitable, closed containers for disposal.
6.4 Reference to other sections	

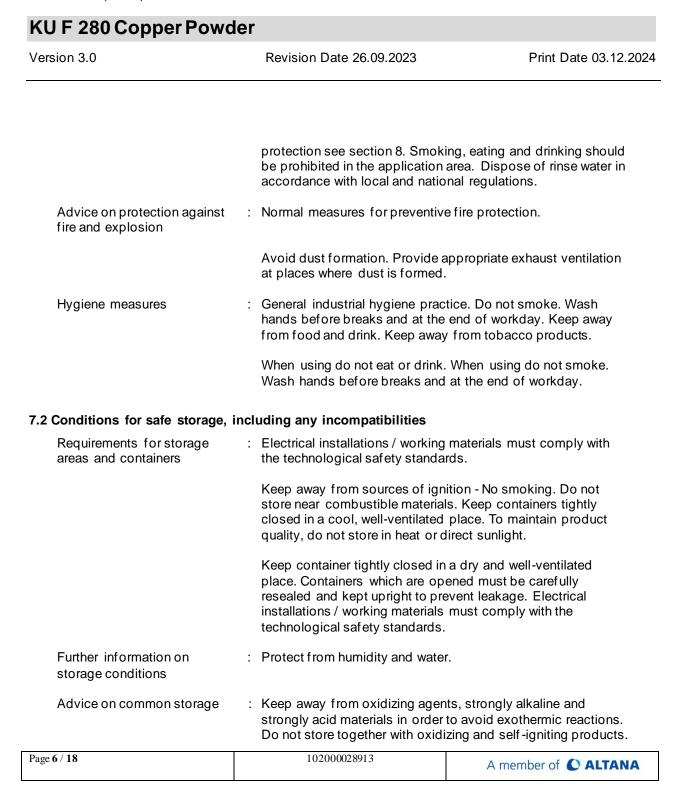
For personal protection see section 8.

#### **SECTION 7: Handling and storage**

#### 7.1 Precautions for safe handling

Advice on safe handling	: Avoid creating dust. Routine ho instituted to ensure that dusts of	
	Avoid formation of respirable p vapours/dust. Avoid contact wi	
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Dampness	: Keep in a dry, cool and well-ventilated	place.
Other data	: Keep in a dry place. No decompositio as directed.	n if stored and applied

#### 7.3 Specific end use(s)

This information is not available.

#### **SECTION 8: Exposure controls/personal protection**

#### 8.1 Control parameters

#### Germany:

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Update	Basis
copper	Not Assigned	AGW (inhalable fraction)	1 mg/m3		DE TRGS 900

#### United States of America (USA):

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Update	Basis
copper	7440-50-8	TWA (Dust and mist)	1 mg/m3	2010-03-01	
copper	7440-50-8	TWA (Fumes)	0,2 mg/m3	2010-03-01	
copper	7440-50-8	TWA (Dust)	1 mg/m3	2013-10-08	
copper	7440-50-8	TWA (Mist)	1 mg/m3	2013-10-08	
copper	7440-50-8	TWA (dusts and mists)	1 mg/m3	2011-07-01	
copper	7440-50-8	TWA (Fumes)	0,1 mg/m3	2011-07-01	
copper	7440-50-8	PEL (Fumes)	0,1 mg/m3	2014-11-26	
copper	7440-50-8	TWA (Fumes)	0,1 mg/m3	1989-01-19	
copper	7440-50-8	TWA (Dust and mist)	1 mg/m3	1989-01-19	
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#### 8.2 Exposure controls

Personal protective equipr	ent
Eye protection	: Safety glasses
	: Tightly fitting safety goggles
	Wear face-shield and protective suit for abnormal processing problems.
Hand protection	
Material	: Leather
Remarks	: Leather gloves
	The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other.
	The exact break through time can be obtained from the protective glove producer and this has to be observed.
	Recommended preventive skin protection
	: The suitability for a specific workplace should be discussed with the producers of the protective gloves.
Skin and body protection	: Long sleeved clothing
	Safety shoes
	: Dust impervious protective suit
	Choose body protection according to the amount and concentration of the dangerous substance at the work place.
Respiratory protection	: Use suitable breathing protection if workplace concentration requires.
	Respirator with a dust filter
	P1 filter
Environmental exposure c	ntrols
General advice	: The product should not be allowed to enter drains, water courses or the soil.

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Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.

#### **SECTION 9: Physical and chemical properties**

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

Appearance	: powder
Colour	: copper
Odour	: characteristic
рН	: substance/mixture is non-soluble (in water)
Melting point/range	: > 900 °C
Boiling point/boiling range	: No data available
Flash point	: No data available
Bulk density	No data available
Flammability (solid, gas)	Combustible Solids
Auto-flammability	: No data available
Upper explosion limit	: No data available
Lower explosion limit	: No data available
Vapour pressure	: No data available
Density	: 8 - 9 g/cm3
Solubility(ies)	
Water solubility	: insoluble
Miscibility with water	: immiscible
Solubility in other solvents	: No data available

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Partition coefficient: n-octanol/water	: No data available
Ignition temperature	: No data available
Thermal decomposition	: No data available
Viscosity, dynamic	: No data available
Viscosity, kinematic	: No data available
Flow time	: No data available

#### 9.2 Other information

No data available

#### **SECTION 10: Stability and reactivity**

#### 10.1 Reactivity

No decomposition if stored and applied as directed.

#### 10.2 Chemical stability

No decomposition if stored and applied as directed.

#### 10.3 Possibility of hazardous reactions

Hazardous reactions	: Stable under recommended storage conditions., No hazards to be specially mentioned.
	No decomposition if stored and applied as directed.
	Dust may form explosive mixture in air.
10.4 Conditions to avoid	
Conditions to avoid	: Heat, flames and sparks. No data available
10.5 Incompatible materials	
Materials to avoid	· No data available

Materials to avoid	: No data available	
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KU	F 280	Coppe	r Powder
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10.6 Hazardous decomposit	ion products	
Other information	: No data available	
SECTION 11: Toxicologic	al information	
11.1 Information on toxicolo	gical effects	
Acute toxicity		
Components:		

20	nr	or	•
CO	Νh		

Acute oral toxicity	: LD50 Oral Rat, male and female: 300 - 500 mg/kg		
	Method: OECD Test Guideline 423		
	The component/mixture is moderately toxic after single ingestion.		
Acute dermal toxicity	: LD50 Rat, male and female: > 2 000 mg/kg		
	Method: OECD Test Guideline 402		
	The substance or mixture has no acute dermal toxicity		

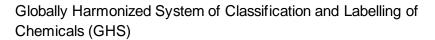
#### Skin corrosion/irritation

#### Product

May cause skin irritation in susceptible persons.

#### Serious eye damage/eye irritation

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#### Product

May cause irreversible eye damage.

#### Respiratory or skin sensitisation

No data available

#### Carcinogenicity

No data available

#### Toxicity to reproduction/fertility

No data available

#### Reprod.Tox./Development/Teratogenicity

No data available

#### STOT - single exposure

No data available

#### STOT - repeated exposure

No data available

#### Aspiration toxicity

No data available

#### **Further information**

#### Product

No data available

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#### **SECTION 12: Ecological information**

#### 12.1 Toxicity

<u>Components:</u> copper () : M-Factor Ecotoxicology Assessment	: 10
Short-term (acute) aquatic hazard	: Very toxic to aquatic life.
Long-term (chronic) aquatic hazard	: Very toxic to aquatic life with long lasting effects.

#### 12.2 Persistence and degradability

No data available

#### 12.3 Bioaccumulative potential

No data available

#### 12.4 Mobility in soil

No data available

#### 12.5 Results of PBT and vPvB assessment

No data available

#### 12.6 Other adverse effects

#### Product:

Additional ecological : An environmental hazard cannot be excluded in the event of

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information	unprofessional handling or disposal with long lasting effects.	., Very toxic to aquatic life

### **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

Product	<ul> <li>The product should not be allowed to enter drains, water courses or the soil.</li> <li>Do not contaminate ponds, waterways or ditches with chemical or used container.</li> </ul>
Contaminated packaging	<ul> <li>Send to a licensed waste management company.</li> <li>Empty remaining contents.</li> <li>Dispose of as unused product.</li> <li>Do not re-use empty containers.</li> </ul>

#### **SECTION 14: Transport information**

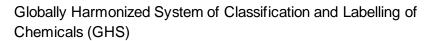
14.1 UN number		
ADR	: 3077	
TDG		
Not dangerous goods		
CFR		
Not dangerous goods		
IMDG	: 3077	
ΙΑΤΑ	: 3077	
14.2 Proper shipping name		
ADR	: ENVIRONMENTALLY HAZAR N.O.S.	DOUS SUBSTANCE, SOLID,
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		(Copper metal powder )	
TDG			
Not dangerous goods			
CFR			
Not dangerous goods			
IMDG	:	ENVIRONMENTALLY HAZARDOUS S	SUBSTANCE, SOLID,
		(,Copper metal powder )	
ΙΑΤΑ	:	ENVIRONMENTALLY HAZARDOUS SN.O.S.	SUBSTANCE, SOLID,
		(Copper metal powder)	
14.3 Transport hazard class			
ADR	:	9	
TDG			
Not dangerous goods			
CFR			
Not dangerous goods			
IMDG	:	9	
ΙΑΤΑ	:	9	
14.4 Packing group			
ADR			
Packaging group	:	III	
Classification Code	:	M7	
Hazard Identification Number	:	90	
Labels	:	9	
Tunnel restriction code	:	(-)	
TDG			

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Not dangerous goods	
CFR	
Not dangerous goods	
IMDG	
Packaging group	: III
Labels	: 9
ΙΑΤΑ	
Packing instruction (cargo aircraft)	: 956
Packing instruction (passenger aircraft)	: 956
Packing instruction (LQ)	: Y956
Packaging group	: III
Labels	: 9
14.5 Environmental hazards	
IMDG	: Marine pollutant
ADR	: Environmentally hazardous

#### 14.6 Special precautions for user

#### IMDG Code- segregation group:

: IMDG Code segregation group 7 - Heavy metals and their salts

For single packagings <= 5L/5 kg, or combination packagings containing inner packagings <= 5L/5 kg net per inner packaging, SV375 ADR, 2.10.2.7 IMDG-Code, A197 IATA-DGR may be applied.

#### 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

No data available

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#### **SECTION 15: Regulatory information**

#### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

REACH - Candidate List of Substances of Very High	: Not applicable
Concern for Authorisation (Article 59). REACH - List of substances subject to authorisation	: Not applicable
(Annex XIV) Regulation (EC) No 1005/2009 on substances that	: Not applicable
deplete the ozone layer Regulation (EU) 2019/1021 on persistent organic	: Not applicable
pollutants (recast) REACH - Restrictions on the manufacture, placing on	
the market and use of certain dangerous substances,	: Not applicable
mixtures and articles (Annex XVII)	

#### 15.2 Chemical safety assessment

No data available

#### **SECTION 16: Other information**

Full text of H-Statements	
H302	: Harmful if swallowed.
H319	: Causes serious eye irritation.
H400	: Very toxic to aquatic life.
H410	: Very toxic to aquatic life with long lasting effects.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the

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specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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