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

KU F 150 Copper Powder

Version 7.0

Revision Date 12.01.2022

Print Date 17.02.2022

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

1.1 Product identifier

Trade name	: KU F 150 Copper Powder
Material number	: 010353VZ0M1

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	l, Category 1, H410
GHS-Labelling		
Symbol(s)		
Signal word	: Warning	
Hazard statements	: H302: Harmful if swallowed. H319: Causes serious eye irritation H410: Very toxic to aquatic life with	
Precautionary statements	water for several minutes. Remove and easy to do. Continue rinsing.	when using this product. nment. protection. OWED: Get medical help. S: Rinse cautiously with contact lenses, if present sists: Get medical help.
Hazardous components w	hich must be listed on the label	
Identification copper	CAS-No.	

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Combustible Solids

SECTION 3: Composition/information on ingredients

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Substance No.

Hazardous components

Chemical name	CAS-No. EINECS-No.	Classification and labelling	Concentration[%]
copper flakes (coated with aliphatic acid)	Not Assigned	Acute Tox.;4;H302 ;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

<i></i>	Do not leave the victim unattended.	
If inhaled	 If unconscious, place in recovery position and seek medical advice. If symptoms persist, call a physician. 	
In case of skin contact	: Wash off immediately with soap and plenty of water.	
in case of skill contact		

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In case of eye contact	: Immediately flush eye(s) with plenty Remove contact lenses. Keep eye wide open while rinsing. If eye irritation persists, consult a sp	
If swallowed	 Induce vomiting immediately and call a physician. Keep respiratory tract clear. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. 	

If symptoms persist, call a physician.

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 media	: Water, High volume water jet

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.

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Further information	: Use extinguishing measures that are circumstances and the surrounding e	environment.
	Standard procedure for chemical fire measures that are appropriate to loc surrounding environment.	3 3
	Collect contaminated fire extinguishing must not be discharged into drains. F contaminated fire extinguishing wate accordance with local regulations.	Fire residues and

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions	: Use personal protective equipm Evacuate personnel to safe are Use personal protective equipm Avoid dust formation. Avoid breathing dust.	as.
6.2 Environmental precautions		
Environmental precautions	: Prevent product from entering of Prevent further leakage or spilla If the product contaminates rive respective authorities.	age if safe to do so.
6.3 Methods and materials for co	ontainment and cleaning up	
Methods for cleaning up	: Use mechanical handling equip	oment.
	Pick up and transfer to properly	labelled containers.
	Keep in suitable, closed contair	ners for disposal.
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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 housekeeping should be instituted to ensure that dusts do not accumulate on surfaces.
	Avoid formation of respirable particles. Do not breathe vapours/dust. Avoid contact with skin and eyes. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Dispose of rinse water in accordance with local and national regulations.
Advice on protection again fire and explosion	nst : Normal measures for preventive fire protection.
	Avoid dust formation. Provide appropriate exhaust ventilation at places where dust is formed.
Hygiene measures	: General industrial hygiene practice. Do not smoke. Wash hands before breaks and at the end of workday. Keep away from food and drink. Keep away from tobacco products.
	When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.
7.2 Conditions for safe stora	ge, including any incompatibilities

Requirements for storage areas and containers	: Electrical installations / working the technological safety standa	
	Keep away from sources of ign store near combustible materia closed in a cool, well-ventilated quality, do not store in heat or o	ls. Keep containers tightly place. To maintain product
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	Keep container tightly closed in a dry place. Containers which are opened resealed and kept upright to prevent installations / working materials must technological safety standards.	must be carefully leakage. Electrical		
Further information on storage conditions	: Protect from humidity and water.			
Advice on common storage	: Keep away from oxidizing agents, structure strongly acid materials in order to ave Do not store together with oxidizing a	oid exothermic reactions.		
Dampness	: Keep in a dry, cool and well-ventilate	d place.		
Other data	: Keep in a dry place. No decomposition as directed.	on 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 flakes (coated with aliphatic acid)	Not Assigned	AGW (inhalable fraction)	1 mg/m3		DE TRGS 900

United States of America (USA):

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Components	CAS-No.	Value type (Form of exposure)	Control parameters	Update	Basis
Copper	7440-50-8	TWA	1 mg/m3	2008-01-01	
Copper	7440-50-8	TWA (dust and mists)	1 mg/m3	2005-09-01	
Copper	7440-50-8	TWA	1 mg/m3	1989-01-19	
Copper	7440-50-8	TWA	0,2 mg/m3	2008-01-01	
Copper	7440-50-8	TWA	0,1 mg/m3	1989-01-19	
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	TWA (Fumes)	0,1 mg/m3	1989-01-19	
Copper	7440-50-8	TWA (Dust and mist)	1 mg/m3	1989-01-19	
Copper	7440-50-8	PEL (Fumes)	0,1 mg/m3	2014-11-26	

8.2 Exposure controls

Personal protective equipment

Eye protection : Safety glasses

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	: Tightly fitting safety goggles	
	Wear face-shield and protective problems.	ve suit for abnormal processing
Hand protection		
Material	: Leather	
Remarks	: Leather gloves	
	The choice of an appropriate of its material but also on other of from one producer to the other	
	The exact break through time protective glove producer and	
	Recommended preventive ski	n protection
	: The suitability for a specific we with the producers of the prote	
Skin and body protection	: Long sleeved clothing	
	Safety shoes	
	: Dust impervious protective sui	it
	Choose body protection accor concentration of the dangerou	ding to the amount and s substance at the work place.
Respiratory protection	: Use suitable breathing protect requires.	tion if workplace concentration
	Respirator with a dust filter P1 filter	

Environmental exposure controls

:

General advice

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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 lake respective authorities.	es or drains inform
Water :	The product should not be allowed to ente courses or the soil.	er drains, water
:		

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	: powder
Colour	: copper
Odour	: odourless
рН	: substance/mixture is non-soluble (in water)
Freezing point	: No data available
Boiling point/boiling range	: 2 597 °C
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

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Density	: No data available
Solubility(ies)	
Water solubility	: immiscible
Miscibility with water	: immiscible
Solubility in other solvents	: No data available
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. 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.

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	Dust may form explosive mixture in air.	
10.4 Conditions to avoid		
Conditions to avoid	: No data available	
	No data available	
10.5 Incompatible materials		
Materials to avoid	: No data available	
10.6 Hazardous decomposition products		
Hazardous decomposition products	: No data available	
Other information	: No data available	

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Components:

copper flakes (coated with ali Acute oral toxicity	phatic acid) : : 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
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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

Product

May cause irreversible eye damage.

Respiratory or skin sensitisation

No data available

Carcinogenicity

No data available

Toxicity to reproduction/fertility

No data available

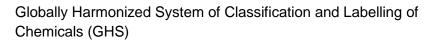
Reprod.Tox./Development/Teratogenicity

No data available

STOT - single exposure

No data available

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STOT - repeated exposure

No data available

Aspiration toxicity

No data available

Further information

Product

No data available

SECTION 12: Ecological information

12.1 Toxicity

Components:
copper () :Ecotoxicology AssessmentShort-term (acute) aquatic
hazard
Long-term (chronic) aquatic
hazard:Very toxic to aquatic life.
· Very toxic to aquatic life with long lasting effects.

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

No data available

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

SECTION 13: Disposal considerations

13.1 Waste treatment methods

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

SECTION 14: Transport information

14.1 UN number

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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,
	(Copper metal powder)	
TDG		
Not dangerous goods CFR		
Not dangerous goods		
IMDG	: ENVIRONMENTALLY HAZAR N.O.S.	DOUS SUBSTANCE, SOLID,
	(,Copper metal powder)	
ΙΑΤΑ	: ENVIRONMENTALLY HAZAR N.O.S.	DOUS SUBSTANCE, SOLID,
	(Copper metal powder)	
14.3 Transport hazard class		
ADR	: 9	
TDG		
Not dangerous goods		
CFR		
Not dangerous goods		
IMDG	: 9	
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ΙΑΤΑ	:	9	
14.4 Packing group			
ADR			
Packaging group	:	Ш	
Classification Code	:	M7	
Hazard Identification Number	:	90	
Labels	:	9	
Tunnel restriction code	:	(-)	
TDG			
Not dangerous goods			
CFR			
Not dangerous goods			
IMDG			
Packaging group	:	Ш	
Labels	:	9	
EmS Number	:	F-A, S-F	
ΙΑΤΑ			
Packing instruction (cargo aircraft)	:	956	
Packing instruction (passenger aircraft)	:	956	
Packing instruction (LQ)	:	Y956	
Packaging group	:	Ш	
Labels	:	9	
14.5 Environmental hazards			
IMDG	:	Marine pollutant	

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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

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

15.2 Chemical safety assessment

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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 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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