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 29.11.2024

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, (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 lo	ong lasting effects.
Precautionary statements	 Prevention: P264 Wash skin thoroughly after h P270 Do not eat, drink or smoke w P273 Avoid release to the environm P280 Wear eye protection/ face pr Response: P301 + P317 + P330 IF SWALLOV Rinse mouth. P305 + P351 + P338 IF IN EYES: water for several minutes. Remove c and easy to do. Continue rinsing. P337 + P317 If eye irritation persis P391 Collect spillage. Disposal: P501 Dispose of contents/ contain disposal plant. 	when using this product. ment. rotection. WED: Get medical help. Rinse cautiously with contact lenses, if present sts: Get medical help.
Hazardous components w	hich must be listed on the label CAS-No.	
Identification	UAU-INU.	

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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 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

General advice	: Move the victim to fresh air. Do not leave the victim unattend Move out of dangerous area. Show this safety data sheet to the Do not leave the victim unattend	the doctor in attendance.
If inhaled	: If unconscious, place in recover advice.	
	If symptoms persist, call a phys	sician.
In case of skin contact	: Wash off immediately with soar	o and plenty of water.
In case of eye contact	: Immediately flush eye(s) with p Remove contact lenses.	·
	Keep eye wide open while rinsi	ng.
	If eye irritation persists, consult	a specialist.
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If swallowed :	Induce vomiting immediately and call a physic Keep respiratory tract clear. Do not give milk or alcoholic beverages. Never give anything by mouth to an uncons 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 firefighting	:	Do not allow run-off from fire fighting to enter drains or water courses.
5.3 Advice for firefighters		
Special protective equipment for firefighters	:	Wear self-contained breathing apparatus for firefighting if necessary.
Further information	:	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
		Standard procedure for chemical fires. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

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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.

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.
	g

6.2 Environmental precautions

 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 containment 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

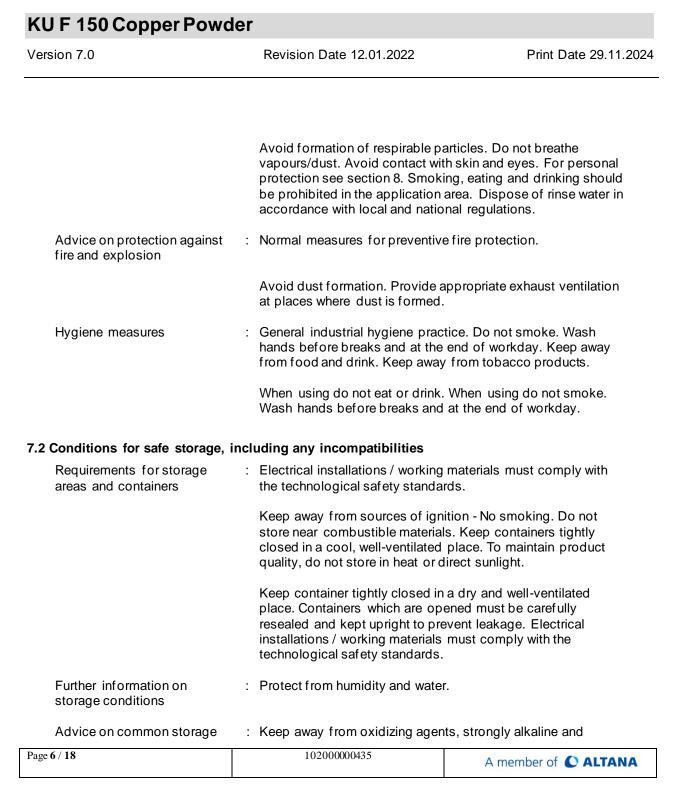
7.1 Precautions for safe handling

Advice on safe handling

: Avoid creating dust. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces.

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	strongly acid materials in order to ave Do not store together with oxidizing a	
Dampness	: Keep in a dry, cool and well-ventilate	d place.
Other data	: Keep in a dry place. No decompositi as directed.	on if stored and applied

7.3 Specific end use(s)

This information is not available.

SECTION 8: Exposure controls/personal protection

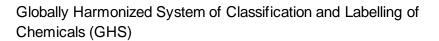
8.1 Control parameters

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):

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	
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Copper	7440-50-8	TWA (Fumes)	0,2 mg/m3	2010-03-01	1
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 equipme	ent	
Eye protection	: Safety glasses	
	: Tightly fitting safety goggles	
	Wear face-shield and protective problems.	e suit for abnormal processing
Hand protection		
Material	: Leather	
Remarks	: Leather gloves	
	The choice of an appropriate gl its material but also on other qu from one producer to the other.	ality features and is different
	The exact break through time c protective glove producer and t	
	Recommended preventive skin	protection
	: The suitability for a specific wo with the producers of the protect	-
Skin and body protection	: Long sleeved clothing	
	Safety shoes	
	: Dust impervious protective suit	
	Choose body protection accord	ling to the amount and
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Respiratory protection	concentration of the dangerous sub : Use suitable breathing protection if	
	requires.	
	Respirator with a dust filter	
	P1 filter	
Environmental exposure	controls	
General advice	:	
	: Prevent product from entering drain	
	Prevent further leakage or spillage	
	If the product contaminates rivers a respective authorities.	nd lakes of drains inform
Water	: The product should not be allowed courses or the soil.	to enter 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	

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Upper explosion limit	: No data available
Lower explosion limit	: No data available
Vapour pressure	: No data available
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

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	to be specially mentioned.	
	No decomposition if stored and app	lied as directed.
	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 aliphatic acid) :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.

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Acute dermal toxicity	: LD50 Rat, male and female: > 2 000	ma/ka
	Method: OECD Test Guideline 402	
	The substance or mixture has no acu	te 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

<u>Components:</u> copper () : Ecotoxicology Assessment		
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 degradabili	ity	

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

ADR

: 3077

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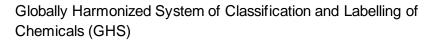
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TDG		
Not dangerous goods		
CFR		
Not dangerous goods		
IMDG	: 3077	
ΙΑΤΑ	: 3077	
14.2 Proper shipping name		
ADR	: ENVIRONMENTALLY HAZARI N.O.S. (Copper metal powder)	DOUS SUBSTANCE, SOLID,
TDG		
Not dangerous goods		
CFR		
Not dangerous goods		
IMDG	: ENVIRONMENTALLY HAZARI N.O.S.	DOUS SUBSTANCE, SOLID,
	(,Copper metal powder)	
ΙΑΤΑ	: ENVIRONMENTALLY HAZARI 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	
ΙΑΤΑ	: 9	
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14.4 Packing group

ADR		
Packaging group	:	III
Classification Code	:	M7
Hazard Identification Number	:	90
Labels	:	9
Tunnel restriction code	:	(-)
TDG		
Not dangerous goods		
CFR		
Not dangerous goods		
IMDG		
Packaging group	:	III
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	:	III
Labels	:	9
14.5 Environmental hazards		
IMDG	:	Marine pollutant
ADR	:	Environmentally hazardous

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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

: Not applicable
: Not applicable
: Not applicable
: Not applicable

15.2 Chemical safety assessment

No data available

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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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