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

STANDART RESIST AT Copper Powder

Version 6.0	Revision Date 20.01.2021	Print Date 24.01.2022

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

1.1 Product identifier

Trade name	:	STANDART RESIST AT Copper Powder
Material number	:	069505C20

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

Page 1 / 20	10200000437	A member of C ALTANA
-------------	-------------	-----------------------------



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

STANDART RESIST AT Copper Powder

Version 6.0	Revision Date 20.01.2021	Print Date 24.01.2022
	Long-term (chronic) aquatic hazard, Category 1, H410	
GHS-Labelling		

CECKART

Symbol(s) :	! ***
Signal word :	Warning
Hazard statements :	H302: Harmful if swallowed. H319: Causes serious eye irritation. H410: Very toxic to aquatic life with long lasting effects.
Precautionary statements :	 Prevention: P264 Wash skin thoroughly after handling. P273 Avoid release to the environment. P280 Wear eye protection/ face protection. Response: P337 + P313 If eye irritation persists: Get medical advice/ attention. P391 Collect spillage. Disposal: P501 Dispose of contents/ container to an approved waste disposal plant.

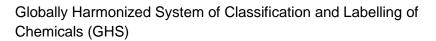
Hazardous components which must be listed on the label

Identification	CAS-No.
copper	7440-50-8
silicon dioxide	7631-86-9

Other hazards which do not result in classification

Combustible Solids

Page 2 / 20	10200000437	A member of 🜔 ALTANA



STANDART RESIST AT Copper Powder

Version 6.0	Revision Date 20.01.2021	Print Date 24.01.2022

SECTION 3: Composition/information on ingredients

Substance No. : EINECS-No. : 231-159-6

Hazardous components

Chemical name	CAS-No. EINECS-No.	Classification and labelling	Concentration[%]
Copper	7440-50-8 231-159-6	Acute Tox.;4;H302 ;2A;H319 Aquatic Acute;1;H400 Aquatic Chronic;1;H410	50 - 100
silicon dioxide	7631-86-9 231-545-4	Acute Tox.;5;H303	1 - 10

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

age 3 / 20	10200000437	
If inhaled	 If unconscious, place in recovery position and seek m advice. If symptoms persist, call a physician. 	
	Move out of dangerous area. Show this safety data sheet to the doctor in attendanc	
	Do not leave the victim unattended.	
General advice	Move the victim to fresh air.	

Page 3 / 20	10200000437	A member of C ALTANA
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Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

STANDART RESIST AT Copper Powder

Version 6.0	Revision Date 20.01.2021	Print Date 24.01.2022
In case of skin contact	: Wash off immediately with soap and	plenty of water.
In case of eye contact	 Immediately flush eye(s) with plenty of water. Remove contact lenses. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist. 	
If swallowed	: Keep respiratory tract clear. Do not give milk or alcoholic bevera Never give anything by mouth to an If symptoms persist, call a physician	unconscious person.

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.

Page 4 / 20 10200000437	A member of C ALTANA
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Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

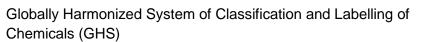
STANDART RESIST AT Copper Powder

Version 6.0	Revision Date 20.01.2021	Print Date 24.01.2022
Eurther information	· Use extinguishing measures that are	appropriato to local
Futurer 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.	
	Collect contaminated fire extinguishi must not be discharged into drains. I 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 equipment. Evacuate personnel to safe areas. Use personal protective equipment. Avoid dust formation. Avoid breathing dust. 		
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.	
Page 5 / 20	10200000437	A member of C ALTANA	





STANDART RESIST AT Copper Powder

Version 6.0

Revision Date 20.01.2021

Print Date 24.01.2022

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 against fire and explosion	:	Normal measures for preventive fire protection.
		Avoid dust formation.
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 storage, including any incompatibilities

Requirements for storage areas and containers	: Electrical installations / working materials must comply with the technological safety standards.
	Keep away from sources of ignition - No smoking. Do not store near combustible materials. Keep containers tightly closed in a cool, well-ventilated place. To maintain product quality, do not store in heat or direct sunlight.

Page 6 / 20	10200000437	A member of C ALTANA
-------------	-------------	-----------------------------



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

STANDART RESIST AT Copper Powder					
Version 6.0		Revision Date 20.01.2021	Print Date 24.01.2022		
		Keep container tightly closed in a dry a place. Electrical installations / working r with the technological safety standards	materials must comply		
Further information on storage conditions	:	Protect from humidity and water.			
Advice on common storage	:	Keep away from oxidizing agents, stron strongly acid materials in order to avoid Do not store together with oxidizing and	exothermic reactions.		
Dampness	:	Keep in a dry, cool and well-ventilated	place.		
Other data	:	Keep in a dry place. No decomposition as directed.	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	7440-50-8	AGW (inhalable fraction)	1 mg/m3		DE TRGS 900
silicon dioxide	7631-86-9	AGW (Inhalable fraction)	4 mg/m3	2013-09-19	DE TRGS 900
Further information Further information Senate commission for the place dangerous for the h amorphous silica, includir manufactured silica (prec compliance with the OEL				K-commission). hic silica and in v ica, silicagel).WI	Colloidal vet processes hen there is
ge 7 / 20		1020	00000437	A membe	er of C ALTANA



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

STANDART RESIST AT Copper Powder

Version 6.0

Revision Date 20.01.2021

Print Date 24.01.2022

		no risk of harmir	ng the unborn child		
Inited States	of America (l	JSA):			
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	
silicon dioxide	7631-86-9	TWA (Dust)	20 Million particles per cubic foot	2012-07-01	
silicon dioxide	7631-86-9	TWA (Dust)	80 mg/m3 / %SiO2	2012-07-01	
silicon	7631-86-9	TWA	6 mg/m3	2013-10-08	

Page 8 / 20	10200000437	A member of 🜔 ALTANA
		CONTRACTOR CONTRACTOR FOR FOR DUCK



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

STANDART RESIST AT Copper Powder

Version 6.0	Revision Date 20.01.2021	Print Date 24.01.2022

dioxide					
silicon	7631-86-9	PEL	6 mg/m3	2014-11-26	
dioxide					

8.2 Exposure controls

Personal protective equipm	ent		
Eye protection	: Saf	ety glasses	
		ar face-shield and protective plems.	e suit for abnormal processing
Hand protection			
Material	: Lea	ther	
Remarks	The its r from The prot Rec : The	naterial but also on other que n one producer to the other. exact break through time c ective glove producer and the commended preventive skin	his has to be observed. protection kplace should be discussed
Skin and body protection	Saf : Dus Cho	g sleeved clothing ety shoes t impervious protective suit pose body protection accord centration of the dangerous	ing to the amount and substance at the work place.
Page 9 / 20		10200000437	A member of C ALTANA



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

STANDART RESIST AT Copper Powder				
/ersion 6.0		Revision Date 20.01.2021	Print Date 24.01.2022	
Respiratory protection	:	Use suitable breathing protection if w requires. Respirator with a dust filter P1 filter	orkplace concentration	
Environmental exposure General advice	contro :	ols		
	:	Prevent product from entering drains Prevent further leakage or spillage if If the product contaminates rivers and respective authorities.	safe to do so.	
Water	:	The product should not be allowed to courses or the soil.	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

Page 10 / 20	10200000437	A member of C ALTANA

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

STANDART RESIST AT Copper Powder

Version 6.0	Revision Date 20.01.2021	Print Date 24.01.2022

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	:	ca. 8,7 g/cm3
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.

Page 11 / 20	10200000437	A member of C ALTANA
--------------	-------------	-----------------------------



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

STANDART RESIST AT Copper Powder

Version 6.0	Revision Date 20.01.2021	Print Date 24.01.2022

10.2 Chemical stability

No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

SECTION 11: Toxicological inf	ormation
Other information	: No data available
Hazardous decomposition products	: No data available
10.6 Hazardous decomposition p	oducts
Materials to avoid	: No data available
10.5 Incompatible materials	
	No data available
Conditions to avoid	: No data available
10.4 Conditions to avoid	
	Dust may form explosive mixture in air.
	No decomposition if stored and applied as directed.
Hazardous reactions	: Stable under recommended storage conditions., No hazards to be specially mentioned.

11.1 Information on toxicological effects

Acute toxicity

Components:

Copper :

Acute oral toxicity

: The component/mixture is moderately toxic after single

Page 12 / 20	10200000437	A member of C ALTANA



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



STANDART RESIST AT Copper Powder		
Version 6.0	Revision Date 20.01.2021	Print Date 24.01.2022
	ingestion.	
silicon dioxide :		
Acute oral toxicity	: LD50 Rat: 5 000 mg/kg	
	Mouse: 15 000 mg/kg	
Acute inhalation toxicity	: Rat: 0,139 mg/l	
	Exposure time: 4 h	
Acute dermal toxicity	: LD50 Rabbit: > 5 000 mg/kg	
Skin corrosion/irritation		
Product		
May cause skin irritation in s	susceptible persons.	
Serious eye damage/eye irritat	ion	
Product		
Eye irritation		
Respiratory or skin sensitisation	on	
Carcinogenicity		
	10000000107	
Page 13 / 20	10200000437	A member of C ALTANA



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

STANDART RESIST AT Copper Powder

Version	6.0

Revision Date 20.01.2021

Print Date 24.01.2022

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

SECTION 12: Ecological information

12.1 Toxicity

Components: copper (7440-50-8) :

Page 14 / 20	10200000437	A member of C ALTANA
--------------	-------------	-----------------------------



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

STANDART RESIST AT Copper Powder

Version 6.0	Revision Date 20.01.2021	Print Date 24.01.2022

M-Factor Ecotoxicology Assessment	: 10	
Short-term (acute) aquatic hazard	: Very toxic to aquatic life.	
Long-term (chronic) aquatic hazard silicon dioxide (7631-86-9) :	: Very toxic to aquatic life with long lasting effect	cts.
Toxicity to daphnia and other aquatic invertebrates	: (Daphnia (water flea)): 7 600 mg/l	
Toxicity to algae	: (Chlorella pyrenoidosa (aglae)): 440 mg/l Exposure time: 72 h	

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

Page 15 / 20	10200000437	A member of C ALTANA
--------------	-------------	-----------------------------

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

STANDART RESIST AT Copper Powder

Version 6.0

Revision Date 20.01.2021

Print Date 24.01.2022

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. In accordance with local and national regulations.
Contaminated packaging	 Empty remaining contents. Dispose of as unused product. Do not re-use empty containers. In accordance with local and national regulations.

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 HAZARI N.O.S.	DOUS SUBSTANCE, SOLID,
	(Copper metal powder)	
Page 16 / 20	10200000437	A member of C ALTANA





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

STANDART RESIST AT Copper Powder

Version 6.0	Revision Date 20.01.2021	Print Date 24.01.2022

TDG	
Not dangerous goods	
CFR	
Not dangerous goods	
IMDG	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
ΙΑΤΑ	 (,Copper metal powder) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (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	: 111
Classification Code	: M7
Hazard Identification Number	: 90
Labels	: 9
TDG	
Not dangerous goods	
CFR	
Page 17 / 20	10200000437 A member of C ALTANA



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

STANDART RESIST AT Copper Powder

Version 6.0	Revision Date 20.01.2021	Print Date 24.01.2022

Not dangerous goods

IMDG	
Packaging group	: 111
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	: 111
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

Page 18 / 20	10200000437	A member of C ALTANA
--------------	-------------	-----------------------------

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

STANDART RESIST AT Copper Powder

Version 6.0 Revision Date 20.01.2021 Print Date 24.01.2022

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).

15.2 Chemical safety assessment

No data available

SECTION 16: Other information

Full text of H-Statements

H302 :	Harmful if swallowed.
H303 :	May be 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.

Page 19 / 20 10200000437	A member of C ALTANA
--------------------------	-----------------------------





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

STANDART RESIST AT Copper Powder

Version 6.0

Revision Date 20.01.2021

Print Date 24.01.2022

Page 20 / 20	10200000437	A member of C ALTANA
--------------	-------------	-----------------------------