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

STANDART RESIST AT Rich Gold Bronze Powder

Version 2.0

Revision Date 06.12.2019

Print Date 03.12.2024

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

1.1 Product identifier

Trade name	:	STANDART RESIST AT Rich Gold Bronze Powder
Material number	:	069507LC0

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

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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 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.

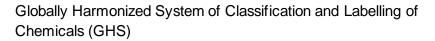
Hazardous components which must be listed on the label

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

Other hazards which do not result in classification

Combustible Solids

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SECTION 3: Composition/information on ingredients

Substance name : RG RES AT

Substance No.

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
zinc powder — zinc dust (stabilised)	7440-66-6 231-175-3	Aquatic Acute;1;H400 Aquatic Chronic;1;H410	25 - 50
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

General advice	 Move the victim to fresh air. Do not leave the victim unattended. Move out of dangerous area. Show this safety data sheet to the doctor in attendance. 	
If inhaled	: If unconscious, place in recover	y position and seek medical
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	advice.	
In case of skin contact	If symptoms persist, call a physician : Wash off immediately with soap and	
In case of eye contact	: Immediately flush eye(s) with plenty Remove contact lenses. Keep eye wide open while rinsing.	of water.
If swallowed	If eye irritation persists, consult a sp : Keep respiratory tract clear. Do not give milk or alcoholic beverag Never give anything by mouth to an If symptoms persist, call a physician	ges. 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 pov	vder
Unsuitable extinguishing media	Water, High volume water jet	
5.2 Special hazards arising from	substance or mixture	
Specific hazards during firefighting	Do not allow run-off from fire fighting to enter drains of courses.	r water
5.3 Advice for firefighters		
Special protective equipment for firefighters	Wear self-contained breathing apparatus for firefightin necessary.	ng if
Further information	: Use extinguishing measures that are appropriate to local	
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circumstances and the surrounding environment.

Standard procedure for chemical fires. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

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.
6.2 Environmental precautions		
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 cor	nta	inment and cleaning up

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.

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SECTION 7: Handling and storage

7.1 Precautions for safe handling	9		
Advice on safe handling	:	Avoid creating dust. Routine ho instituted to ensure that dusts d	
		Avoid formation of respirable proportion of respirable proportion see section 8. Smok be prohibited in the application accordance with local and nation	th skin and eyes. For personal ing, eating and drinking should area. Dispose of rinse water in
Advice on protection against fire and explosion	:	Normal measures for preventive	e fire protection.
		Avoid dust formation.	
Hygiene measures	:	General industrial hygiene prachands before breaks and at the from food and drink. Keep away	end of workday. Keep away
		When using do not eat or drink. Wash hands before breaks and	
7.2 Conditions for safe storage, i	incl	uding any incompatibilities	
Requirements for storage areas and containers	:	Electrical installations / working the technological safety standa	
		Keep away from sources of ign store near combustible material closed in a cool, well-ventilated quality, do not store in heat or c	ls. Keep containers tightly place. To maintain product
		Keep container tightly closed in place. Electrical installations / w with the technological safety st	orking materials must comply
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Further information on storage conditions	: Protect from humidity and water.
Advice on common storage	: Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions. Do not store together with oxidizing and self-igniting products.
Dampness	: Keep in a dry, cool and well-ventilated place.
Other data	: Keep in a dry place. No decomposition if stored and applied as directed.

7.3 Specific end use(s)

This information is not available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Germany:

Page

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
zinc powder — zinc dust (stabilised)	7440-66-6	AGW (Inhalable fraction)	10 mg/m3	2014-04-02	DE TRGS 900
Peak-limit: excursion factor (category)		2;(II)			
Further information			dangerous substan ounds at the work pl on).		
zinc powder	7440-66-6	AGW (Alveolate	1,25 mg/m3	2014-04-02	DE TRGS 900
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— zinc dust (stabilised)		fraction)				
Peak-limit: excursion factor (category)		2;(II)				
Further inform	ation	Commission for dangerous substances Senate commission for the review of compounds at the work place dangerous for the health (MAK-commission).				
silicon dioxide	7631-86-9	AGW (Inhalable fraction)	4 mg/m3	2013-09-19	DE TRGS 900	
Further information		place dangerous amorphous silica manufactured si compliance with	sion for the review c s for the health (MA a, including pyroger lica (precipitated sil the OEL and biologing the unborn child	K-commission). hic silica and in v ica, silicagel).Wi	Colloidal vet processes hen there is	

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	
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	
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zinc powder — zinc dust (stabilised)	7440-66-6	TWA (total dust)	50 Million particles per cubic foot	2012-07-01
zinc powder — zinc dust (stabilised)	7440-66-6	TWA (total dust)	15 mg/m3	2012-07-01
zinc powder — zinc dust (stabilised)	7440-66-6	TWA (respirable fraction)	5 mg/m3	2012-07-01
zinc powder — zinc dust (stabilised)	7440-66-6	TWA (respirable fraction)	15 Million particles per cubic foot	2012-07-01
zinc powder — zinc dust (stabilised)	7440-66-6	PEL (Total dust)	10 mg/m3	2014-11-26
zinc powder — zinc dust (stabilised)	7440-66-6	PEL (respirable dust fraction)	5 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 dioxide	7631-86-9	TWA	6 mg/m3	2013-10-08
silicon dioxide	7631-86-9	PEL	6 mg/m3	2014-11-26

8.2 Exposure controls

Personal protective equipment

Eye protection

Safety glasses

: Wear face-shield and protective suit for abnormal processing problems.

Hand protection

Material

: Leather

:

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Remarks	 Leather gloves The choice of an appropriate glo its material but also on other qua from one producer to the other. The exact break through time ca protective glove producer and th Recommended preventive skin p The suitability for a specific work 	ality features and is different an be obtained from the his has to be observed. protection
Skin and body protection	with the producers of the protect : Long sleeved clothing Safety shoes	tive gloves.
	: Dust impervious protective suit Choose body protection accordi concentration of the dangerous s	
Respiratory protection	 Use suitable breathing protection requires. Respirator with a dust filter P1 filter 	n if workplace concentration
Environmental exposure of General advice	ontrols :	
	 Prevent product from entering dr Prevent further leakage or spillage If the product contaminates river respective authorities. 	age if safe to do so.
Water	 The product should not be allow courses or the soil. : 	red to enter drains, water

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

: powder

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Colour		gold
	•	0
Odour	:	odourless
рН	:	No data available
Freezing point	:	No data available
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	:	ca. 8,2 g/cm3
Solubility(ies)		
Water solubility	:	insoluble
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

Self-Accelerating

: No data available

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decomposition temperature (SADT)		
Self-heating substances	:	No data available
Heat of combustion	:	No data available
Impact sensitivity	:	No data available
Surface tension	:	No data available
Conductivity	:	No data available
Sublimation point	:	No data available
Molecular weight	:	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.
		Dust may form explosive mixture in air.

10.4 Conditions to avoid

Conditions to avoid

: No data available

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10.5 Incompatible materials	No data available	

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 : Acute oral toxicity	: The component/mixture is moderately toxic after single ingestion.
zinc powder — zinc dust Acute oral toxicity	(stabilised) : : Rat: > 2 000 mg/kg
silicon dioxide : Acute oral toxicity	: LD50 Rat: 5 000 mg/kg

Mouse: 15 000 mg/kg

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Acute inhalation toxicity	: Rat: 0,139 mg/l	
Addie Initiation toxiony	-	
	Exposure time: 4 h	
Acute dermal toxicity	: LD50 Rabbit: > 5 000 mg/kg	
Skin corrosion/irritation		
<u>Product</u>		
May cause skin irritation in	susceptible persons.	
Serious eye damage/eye irritat	ion	
Product		
Eye irritation		
Respiratory or skin sensitisation	on	
No data available		
Carcinogenicity		
No data available		
Toxicity to reproduction/fertilit	v	
No data available		
Reprod.Tox./Development/Tera	togenicity	
No data available	-	
STOT - single exposure		
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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

<u>Components:</u> copper (7440-50-8):		
M-Factor	: 10	
Ecotoxicology Assessment		
Short-term (acute) aquatic hazard	: Very toxic to aquatic life.	
Long-term (chronic) aquatic hazard zinc (7440-66-6) :	: Very toxic to aquatic life with	n long lasting effects.
Ecotoxicology Assessment		
Short-term (acute) aquatic hazard	: Very toxic to aquatic life.	
Long-term (chronic) aquatic hazard	: Very toxic to aquatic life with	n long lasting effects.
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silicon dioxide (7631-86-9) :

Toxicity to daphnia and other	:	(Daphnia (water flea)): 7 600 mg/l
aquatic invertebrates		
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 information	An environmental hazard cannot be excluded in the event of unprofessional handling or disposal., Very toxic to aquatic life
	with long lasting effects.

SECTION 13: Disposal considerations

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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		
	: 3077	
ADR	. 3077	
TDG		
Not dangerous goods		
CFR		
Not dangerous goods		
IMDG	: 3077	
ΙΑΤΑ	: 3077	
14.2 Proper shipping name		
ADR	: ENVIRONMENTALLY HAZARI	OOUS SUBSTANCE, SOLID,
	N.O.S.	
	(Copper metal powder)	
TDG		
Not dangerous goods		
CFR		
Not dangerous goods		
IMDG	: ENVIRONMENTALLY HAZARE	OOUS SUBSTANCE, SOLID,
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	N.O.S.	
	(,Copper metal powder)	
ΙΑΤΑ	: ENVIRONMENTALLY HAZARDO	OUS 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	: III	
Classification Code	: M7	
Hazard Identification Number	: 90	
Labels	: 9	
TDG		
Not dangerous goods		
CFR		
Not dangerous goods		
Packaging group	:	
Labels	: 9	
EmS Number	: F-A, S-F	
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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	

	I
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

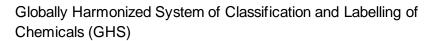
No data available

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 : Not applicable Concern for Authorisation (Article 59).

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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.

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