

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

STANDART RESIST AT Rich Pale Gold Bronze Powder

Version 2.1

Revision Date 10.12.2021

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 Pale Gold Bronze Powder
Material number : 069504C20

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

STANDART RESIST AT Rich Pale Gold Bronze Powder

Version 2.1

Revision Date 10.12.2021

Print Date 03.12.2024

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 long lasting effects.

Precautionary statements

:

Prevention:
P264 Wash skin thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P273 Avoid release to the environment.
P280 Wear eye protection/ face protection.
Response:
P301 + P317 + P330 IF SWALLOWED: Get medical help.
Rinse mouth.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with
water for several minutes. Remove contact lenses, if present
and easy to do. Continue rinsing.
P337 + P317 If eye irritation persists: Get medical help.
P391 Collect spillage.
Disposal:
P501 Dispose of contents/ container to an approved waste
disposal plant.

Hazardous components which must be listed on the labelIdentification
copperCAS-No.
7440-50-8**Other hazards which do not result in classification**

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

STANDART RESIST AT Rich Pale Gold Bronze Powder

Version 2.1

Revision Date 10.12.2021

Print Date 03.12.2024

Combustible Solids

SECTION 3: Composition/information on ingredients

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	10 - 20

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.
Do not leave the victim unattended.

If inhaled : Remove to fresh air.
If unconscious, place in recovery position and seek medical
advice.

STANDART RESIST AT Rich Pale Gold Bronze Powder

Version 2.1

Revision Date 10.12.2021

Print Date 03.12.2024

In case of skin contact	: If symptoms persist, call a physician.
In case of eye contact	: Wash off immediately with soap and plenty of water.
	: 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	: 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 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

STANDART RESIST AT Rich Pale Gold Bronze Powder

Version 2.1

Revision Date 10.12.2021

Print Date 03.12.2024

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. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

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 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.

STANDART RESIST AT Rich Pale Gold Bronze Powder

Version 2.1

Revision Date 10.12.2021

Print Date 03.12.2024

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. 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 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.

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully

STANDART RESIST AT Rich Pale Gold Bronze Powder

Version 2.1

Revision Date 10.12.2021

Print Date 03.12.2024

resealed and kept upright to prevent leakage. Electrical installations / working materials must comply with the technological safety standards.

- 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:**

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Update	Basis
Copper	7440-50-8	AGW (inhalable fraction)	1 mg/m ³		DE TRGS 900
zinc powder — zinc dust (stabilised)	7440-66-6	AGW (Inhalable fraction)	10 mg/m ³	2014-04-02	DE TRGS 900
Peak-limit: excursion factor (category)		2;(II)			
zinc powder — zinc dust	7440-66-6	AGW (Alveolate fraction)	1,25 mg/m ³	2014-04-02	DE TRGS 900

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

STANDART RESIST AT Rich Pale Gold Bronze Powder

Version 2.1

Revision Date 10.12.2021

Print Date 03.12.2024

(stabilised)					
Peak-limit: excursion factor (category)		2;(II)			
silicon dioxide	7631-86-9	AGW (Inhalable fraction)	4 mg/m ³	2013-09-19	DE TRGS 900
Further information	Senate commission for the review of compounds at the work place dangerous for the health (MAK-commission). Colloidal amorphous silica, including pyrogenic silica and in wet processes manufactured silica (precipitated silica, silicagel). When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child				
aluminium	7429-90-5	AGW (Inhalable fraction)	10 mg/m ³	2014-04-02	DE TRGS 900
Peak-limit: excursion factor (category)		2;(II)			
aluminium	7429-90-5	AGW (Alveolate fraction)	1,25 mg/m ³	2014-04-02	DE TRGS 900
Peak-limit: excursion factor (category)		2;(II)			

United States of America (USA):

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Update	Basis
Copper	7440-50-8	TWA	1 mg/m ³	2008-01-01	
Copper	7440-50-8	TWA (dust and mists)	1 mg/m ³	2005-09-01	
Copper	7440-50-8	TWA	1 mg/m ³	1989-01-19	
Copper	7440-50-8	TWA	0,2 mg/m ³	2008-01-01	
Copper	7440-50-8	TWA	0,1 mg/m ³	1989-01-19	
Copper	7440-50-8	TWA (Dust and mist)	1 mg/m ³	2010-03-01	
Copper	7440-50-8	TWA (Fumes)	0,2 mg/m ³	2010-03-01	
Copper	7440-50-8	TWA (Dust)	1 mg/m ³	2013-10-08	
Copper	7440-50-8	TWA (Mist)	1 mg/m ³	2013-10-08	
Copper	7440-50-8	TWA (dusts and mists)	1 mg/m ³	2011-07-01	
Copper	7440-50-8	TWA (Fumes)	0,1 mg/m ³	2011-07-01	

STANDART RESIST AT Rich Pale Gold Bronze Powder

Version 2.1

Revision Date 10.12.2021

Print Date 03.12.2024

Copper	7440-50-8	TWA (Fumes)	0,1 mg/m ³	1989-01-19	
Copper	7440-50-8	TWA (Dust and mist)	1 mg/m ³	1989-01-19	
Copper	7440-50-8	PEL (Fumes)	0,1 mg/m ³	2014-11-26	
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/m ³	2012-07-01	
zinc powder — zinc dust (stabilised)	7440-66-6	TWA (respirable fraction)	5 mg/m ³	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/m ³	2014-11-26	
zinc powder — zinc dust (stabilised)	7440-66-6	PEL (respirable dust fraction)	5 mg/m ³	2014-11-26	
stearic acid	57-11-4	TWA	10 mg/m ³	2016-03-01	
stearic acid	57-11-4	TWA (Inhalable particulate matter)	10 mg/m ³	2018-03-20	
stearic acid	57-11-4	TWA (Respirable particulate matter)	3 mg/m ³	2018-03-20	

8.2 Exposure controls**Personal protective equipment**

Eye protection : Safety glasses
: Tightly fitting safety goggles
Wear face-shield and protective suit for abnormal processing

STANDART RESIST AT Rich Pale Gold Bronze Powder

Version 2.1

Revision Date 10.12.2021

Print Date 03.12.2024

- 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 controls

- General advice :
- : 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.
- Water : The product should not be allowed to enter drains, water courses or the soil.
- :

STANDART RESIST AT Rich Pale Gold Bronze Powder

Version 2.1

Revision Date 10.12.2021

Print Date 03.12.2024

SECTION 9: Physical and chemical properties**9.1 Information on basic physical and chemical properties**

Appearance	: powder
Colour	: gold
Odour	: odourless
pH	: substance/mixture is non-soluble (in water)
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. 8,5 g/cm ³
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

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

STANDART RESIST AT Rich Pale Gold Bronze Powder

Version 2.1

Revision Date 10.12.2021

Print Date 03.12.2024

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.

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

STANDART RESIST AT Rich Pale Gold Bronze Powder

Version 2.1

Revision Date 10.12.2021

Print Date 03.12.2024

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.

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

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

STANDART RESIST AT Rich Pale Gold Bronze Powder

Version 2.1

Revision Date 10.12.2021

Print Date 03.12.2024

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) :**

M-Factor : 10

Ecotoxicology Assessment

Short-term (acute) aquatic : Very toxic to aquatic life.

STANDART RESIST AT Rich Pale Gold Bronze Powder

Version 2.1

Revision Date 10.12.2021

Print Date 03.12.2024

hazard
Long-term (chronic) aquatic hazard : Very toxic to aquatic life with long lasting effects.

zinc (7440-66-6) :**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 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.

STANDART RESIST AT Rich Pale Gold Bronze Powder

Version 2.1

Revision Date 10.12.2021

Print Date 03.12.2024

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**TDG**

Not dangerous goods

CFR

Not dangerous goods

IMDG : 3077**IATA** : 3077**14.2 Proper shipping name**

ADR : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,
N.O.S.
(Copper metal powder)

TDG

Not dangerous goods

CFR

STANDART RESIST AT Rich Pale Gold Bronze Powder

Version 2.1

Revision Date 10.12.2021

Print Date 03.12.2024

Not dangerous goods

IMDG : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,
N.O.S.
(,Copper metal powder)

IATA : 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**IATA** : 9**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

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

STANDART RESIST AT Rich Pale Gold Bronze Powder

Version 2.1

Revision Date 10.12.2021

Print Date 03.12.2024

Packaging group : III
Labels : 9
EmS Number : F-A, S-F

IATA

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

STANDART RESIST AT Rich Pale Gold Bronze Powder

Version 2.1

Revision Date 10.12.2021

Print Date 03.12.2024

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

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.

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

STANDART RESIST AT Rich Pale Gold Bronze Powder

Version 2.1

Revision Date 10.12.2021

Print Date 03.12.2024
