

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

STANDART RESIST ROTOFLEX Brillant Rich Gold Bronze Powder

Version 3.0 Revision Date 05.06.2023 Print Date 06.06.2023

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

1.1 Product identifier

Trade name : STANDART RESIST ROTOFLEX Brillant Rich Gold Bronze

Powder

Material number : 069543BP0

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

Page 1 / 19 102000023148 A member of O	ALTANA
----------------------------------------	--------



STANDART RESIST ROTOFLEX Brillant Rich Gold Bronze Powder

Version 3.0 Revision Date 05.06.2023 Print Date 06.06.2023

Short-term (acute) aquatic hazard, Category 1, H400 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 label

IdentificationCAS-No.copper7440-50-8

Page 2 / 19	102000023148	A member of C ALTANA
-------------	--------------	-----------------------------



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

STANDART RESIST ROTOFLEX Brillant Rich Gold Bronze Powder

Version 3.0 Revision Date 05.06.2023 Print Date 06.06.2023

Other hazards which do not result in classification

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 Eye Dam./Irrit.;2A;H319 Aquatic Acute;1;H400 Aquatic Chronic;1;H410	50 - 100
zinc	7440-66-6 231-175-3	Aquatic Acute;1;H400 Aquatic Chronic;1;H410	25 - 50

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.

Move out of dangerous area.

Show this safety data sheet to the doctor in attendance.

If inhaled : If unconscious, place in recovery position and seek medical

advice.

If symptoms persist, call a physician.

Page 3 / 19 102000023148 A member of C ALTAN



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

STANDART RESIST ROTOFLEX Brillant Rich Gold Bronze Powder

Version 3.0 Revision Date 05.06.2023 Print Date 06.06.2023

In case of skin contact : Wash off immediately with soap and plenty of water.

: Immediately flush eye(s) with plenty of water. In case of eye contact

Remove contact lenses.

Keep eye wide open while rinsing.

If swallowed : 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, Carbon dioxide (CO2)

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

for firefighters

Special protective equipment : Wear self-contained breathing apparatus for firefighting if

necessary.

Further information : Standard procedure for chemical fires.

Collect contaminated fire extinguishing water separately. This

must not be discharged into drains. Fire residues and

Pa	age 4 / 19	102000023148	A member of C ALTANA	
			A III CITIBLE OF CALIAN	^



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

STANDART RESIST ROTOFLEX Brillant Rich Gold Bronze Powder

Version 3.0 Revision Date 05.06.2023 Print Date 06.06.2023

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 : The product should not be allowed to enter drains, water

courses or the soil.

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.

Page 5 / 19	102000023148	A member of C ALTANA



STANDART RESIST ROTOFLEX Brillant Rich Gold Bronze Powder

Version 3.0 Revision Date 05.06.2023 Print Date 06.06.2023

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.

Keep container tightly closed in a dry and well-ventilated place. 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

: 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.

Page 6 / 19	102000023148	A member of ALTANA



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

STANDART RESIST ROTOFLEX Brillant Rich Gold Bronze Powder

Version 3.0 Revision Date 05.06.2023 Print Date 06.06.2023

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/m3		DE TRGS 900
zinc	7440-66-6	AGW (Inhalable fraction)	10 mg/m3	2021-07-02	DE TRGS 900
Peak-limit: exc factor (categor		2;(II)			
Further information			ompliance with the one risk of harming the	•	cal tolerance
zinc	7440-66-6	AGW (Alveolate fraction)	1,25 mg/m3	2021-07-02	DE TRGS 900
Peak-limit: excursion factor (category)		2;(II)			
Further information			ompliance with the one risk of harming the	•	cal tolerance
silicon dioxide	7631-86-9	AGW (Inhalable fraction)	4 mg/m3	2013-09-19	DE TRGS 900
Further information			sion for the review of for the health (MA	•	



STANDART RESIST ROTOFLEX Brillant Rich Gold Bronze Powder

Version 3.0 Revision Date 05.06.2023 Print Date 06.06.2023

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

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	PEL (Fumes)	0,1 mg/m3	2014-11-26	
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	
zinc	7440-66-6	TWA (total dust)	50 Million particles per cubic foot	2012-07-01	
zinc	7440-66-6	TWA (total dust)	15 mg/m3	2012-07-01	
zinc	7440-66-6	TWA (respirable fraction)	5 mg/m3	2012-07-01	
zinc	7440-66-6	TWA (respirable fraction)	15 Million particles per cubic foot	2012-07-01	
zinc	7440-66-6	PEL (Total dust)	10 mg/m3	2014-11-26	
zinc	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	

A member of ALTAN	Page 8 / 19	102000023148	A member of () ALTANA
-------------------	-------------	--------------	------------------------------



STANDART RESIST ROTOFLEX Brillant Rich Gold Bronze Powder

Version 3.0 Revision Date 05.06.2023 Print Date 06.06.2023

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

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

Page 9 / 19	102000023148	A member of C ALTANA



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

STANDART RESIST ROTOFLEX Brillant Rich Gold Bronze Powder

Version 3.0 Revision Date 05.06.2023 Print Date 06.06.2023

P1 filter

Environmental exposure controls

General advice : The product should not be allowed to enter drains, water

courses or the soil.

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.

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)

Melting point/freezing point : > 900 °C

Boiling point/boiling range : No data available
Flash point : No data available
Bulk density : ca. 0,55 g/cm3

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 : 8 - 9 g/cm³

Solubility(ies)

Page 10 / 19	102000023148	A member of C ALTANA



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

STANDART RESIST ROTOFLEX Brillant Rich Gold Bronze Powder

Version 3.0 Revision Date 05.06.2023 Print Date 06.06.2023

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

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

Page 11 / 19	102000023148	A member of C ALTANA
--------------	--------------	-----------------------------



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

STANDART RESIST ROTOFLEX Brillant Rich Gold Bronze Powder

Version 3.0 Revision Date 05.06.2023 Print Date 06.06.2023

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

10.5 Incompatible materials

Materials to avoid

: No data available

10.6 Hazardous decomposition products

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

Page 12 / 19	102000023148	A member of C ALTANA
		The state of the s



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

STANDART RESIST ROTOFLEX Brillant Rich Gold Bronze Powder

Version 3.0 Revision Date 05.06.2023 Print Date 06.06.2023

Product

May cause skin irritation in susceptible persons.

Serious eye damage/eye irritation

Product

Eye irritation

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

STOT - repeated exposure

No data available

Aspiration toxicity

No data available

Page 13 / 19	102000023148	A member of C ALTANA



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

STANDART RESIST ROTOFLEX Brillant Rich Gold Bronze Powder

: Very toxic to aquatic life.

: Very toxic to aquatic life.

Version 3.0 Revision Date 05.06.2023 Print Date 06.06.2023

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

hazard

Long-term (chronic) aquatic

hazard

zinc (7440-66-6):

Ecotoxicology Assessment

Short-term (acute) aquatic

hazard

Long-term (chronic) aquatic

hazard

: Very toxic to aquatic life with long lasting effects.

: 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

10200002314	A member of ALTANA
-------------	---------------------------



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

STANDART RESIST ROTOFLEX Brillant Rich Gold Bronze Powder

Version 3.0 Revision Date 05.06.2023 Print Date 06.06.2023

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

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

Page 15 / 19	A member of C ALTAN	A
--------------	---------------------	---



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

STANDART RESIST ROTOFLEX Brillant Rich Gold Bronze Powder

Version 3.0 Revision Date 05.06.2023 Print Date 06.06.2023

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

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

Page 16 / 19	102000023148	A member of C ALTANA
--------------	--------------	-----------------------------



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

STANDART RESIST ROTOFLEX Brillant Rich Gold Bronze Powder

Version 3.0 Revision Date 05.06.2023 Print Date 06.06.2023

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

Packaging group : III Labels : 9

IATA

Packing instruction (cargo

aircraft)

Packing instruction : 956

(passenger aircraft)

Packing instruction (LQ) : Y956
Packaging group : III
Labels : 9

14.5 Environmental hazards

IMDG : Marine pollutant

ADR : Environmentally hazardous

: 956

Page 17 / 19 102000023148	A member of C ALTANA
---------------------------	-----------------------------



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

STANDART RESIST ROTOFLEX Brillant Rich Gold Bronze Powder

Version 3.0 Revision Date 05.06.2023 Print Date 06.06.2023

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).

REACH - List of substances subject to authorisation : Not applicable

(Annex XIV)

Regulation (EC) No 1005/2009 on substances that : Not applicable

deplete the ozone layer

Regulation (EU) 2019/1021 on persistent organic

pollutants (recast)

REACH - Restrictions on the manufacture, placing on

the market and use of certain dangerous substances,

mixtures and articles (Annex XVII)

: Not applicable: Not applicable

15.2 Chemical safety assessment

No data available

Page 18 / 19	102000023148	A member of C ALTANA



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

STANDART RESIST ROTOFLEX Brillant Rich Gold Bronze Powder

Version 3.0 Revision Date 05.06.2023 Print Date 06.06.2023

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.