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

ROTOFLEX XA 8-203 Pale Gold

Version 2.1

Revision Date 23.09.2022

Print Date 24.09.2022

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

1.1 Product identifier

Trade name	:	ROTOFLEX XA 8-203 Pale Gold
Material number	:	024471C20

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

: Flammable solids, Category 1, H228 Acute toxicity, Category 4, Oral, H302 Serious eye damage/eye irritation, Category 2A, H319

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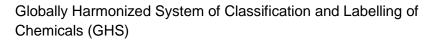


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	Short-term (acute) aquatic hazard, Long-term (chronic) aquatic hazard	
GHS-Labelling		
Symbol(s)		
Signal word	: Danger	
Hazard statements	 H228: Flammable solid. H302: Harmful if swallowed. H319: Causes serious eye irritation H410: Very toxic to aquatic life with 	
Precautionary statements	 P241 Use explosion-proof electrequipment. P264 Wash skin thoroughly afte P270 Do not eat, drink or smoke P273 Avoid release to the environed P280 Wear protective gloves/ protection/ face protection/ hearing Response: P301 + P317 + P330 IF SWALL Rinse mouth. P305 + P351 + P338 IF IN EYE water for several minutes. Remove and easy to do. Continue rinsing. P337 + P317 If eye irritation per P370 + P378 In case of fire: Use powder for metal fires. 	No smoking. er and receiving equipment. rical/ ventilating/ lighting r handling. when using this product. onment. rotective clothing/ eye g protection. LOWED: Get medical help.
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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

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	2,5 - 10
octadecylamine	124-30-1 204-695-3	STOT RE;2;H373 Asp. Tox.;1;H304 Eye Dam.;1;H318 Aquatic Acute;1;H400 Aquatic Chronic;1;H410 Skin Irrit.;2;H315	0,25 - 1

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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. Do not leave the victim unattended.
If inhaled	:	Remove to fresh air. If unconscious, place in recovery position and seek medical advice. If symptoms persist, call a physician.
In case of skin contact	:	Wash off immediately with soap and plenty of water.
		If on clothes, remove clothes.
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 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.

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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

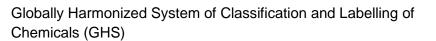
Suitable extinguishing media	:	Special powder against metal fire, Dry sand, ABC powder
Unsuitable extinguishing media	:	Water, High volume water jet
5.2 Special hazards arising from	the	e substance or mixture
Specific hazards during firefighting	:	Do not allow run-off from fire fighting to enter drains or water courses.
5.3 Advice for firefighters		
Special protective equipment for firefighters	:	Wear self-contained breathing apparatus for firefighting if necessary.
Further information	:	Standard procedure for chemical fires.
		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. For safety reasons in case of fire, cans should be stored separately in closed containments. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Use a water spray to cool fully closed containers.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

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Personal precautions	 Use personal protective equipment. Evacuate personnel to safe areas. Use personal protective equipment. Avoid dust formation. Avoid breathing dust. Remove all sources of ignition. 		
6.2 Environmental precautions			
Environmental precautions	: Prevent product from entering drains. Prevent further leakage or spillage if sa If the product contaminates rivers and la respective authorities.		
6.3 Methods and materials for c	ontainment and cleaning up		
Methods for cleaning up	: Use mechanical handling equipment.		
	Pick up and transfer to properly labelled	d containers.	
	Contain spillage, and then collect with a vacuum cleaner or by wet-brushing and disposal according to local regulations Keep in suitable, closed containers for the set of the s	I place in container for (see section 13).	
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

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		protection see section 8. Smoki be prohibited in the application content may be under pressure accordance with local and natio	area. Open drum carefully as . Dispose of rinse water in
Advice on protection against fire and explosion	:	: Normal measures for preventive fire protection.	
		Avoid dust formation. Provide a at places where dust is formed. hot surfaces and sources of ign	Keep away from open flames,
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. Wash hands before breaks and	
7.2 Conditions for safe storage, i	inc	uding 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. 	
		No smoking. Keep container tig ventilated place. Containers wh carefully resealed and kept upri Electrical installations / working the technological safety standar	ich are opened must be ght to prevent leakage. materials must comply with
Further information on storage conditions	:	Protect from humidity and water	r.
Advice on common storage	: Keep away from oxidizing agents, strongly alkaline and		
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	strongly acid materials in order to avo Do not store together with oxidizing a	
Dampness	: Keep in a dry, cool and well-ventilated	d place.
Other data	: Keep in a dry place. No decomposition as directed.	n 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
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)			
zinc powder — zinc dust (stabilised)	7440-66-6	AGW (Alveolate fraction)	1,25 mg/m3	2014-04-02	DE TRGS 900
Peak-limit: exc factor (categor		2;(II)	•	•	

8.2 Exposure controls

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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 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 wor with the producers of the protec	
Skin and body protection	ody 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	
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	P1 filter		
Environmental expos General advice	ure controls :		
	: Prevent product from entering drains Prevent further leakage or spillage if		
	If the product contaminates rivers an respective authorities.	d lakes or drains inform	
Water	: The product should not be allowed to courses or the soil.	o enter drains, water	
	:		

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	:	powder
Colour	:	gold
Odour	:	odourless
рН	:	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)	:	The substance or mixture is a flammable solid with the category 1.

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Auto-flammability	: No data available
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	: 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

No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

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

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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

Heat, flames and sparks.

10.5 Incompatible materials

Materials to avoid	:	No data available
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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 :

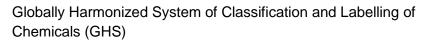
Acute oral toxicity

: The component/mixture is moderately toxic after single ingestion.

Skin corrosion/irritation

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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

STOT - repeated exposure

No data available

Aspiration toxicity

No data available

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Further information

Product

No data available

SECTION 12: Ecological information

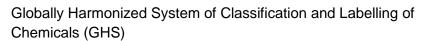
12.1 Toxicity

<u>Components:</u> copper (7440-50-8) :		
M-Factor Ecotoxicology Assessment	:	10
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 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 long lasting effects.
octadecylamine (124-30-1) :		
M-Factor	:	10
2 Persistence and degradabilit	y	
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. Do not burn, or use a cutting torch on, the empty drum.

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SECTION 14: Transport information 14.1 UN number ADR : 3089 TDG : 3089 CFR : 3089 IMDG : 3089 ΙΑΤΑ : 3089 14.2 Proper shipping name ADR : METAL POWDER, FLAMMABLE, N.O.S. TDG : METAL POWDER, FLAMMABLE, N.O.S. (Gold bronze powder, Copper metal powder) : METAL POWDERS, FLAMMABLE, N.O.S. CFR (Gold bronze powder, Copper metal powder) : METAL POWDER, FLAMMABLE, N.O.S. IMDG (,Gold bronze powder ,Copper metal powder) ΙΑΤΑ : METAL POWDER, FLAMMABLE, N.O.S. 14.3 Transport hazard class ADR : 4.1 TDG : 4.1 CFR : 4.1 IMDG : 4.1 ΙΑΤΑ : 4.1 14.4 Packing group ADR : 11 Packaging group Page 16 / 19 102000031191 A member of **C ALTANA**





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Clas	sification Code		F3
		-	
	ard Identification Number		-
Labe	els	:	4.1
Tunr	nel restriction code	:	(E)
TDG			
Pack	aging group	:	II
Labe	els	:	4.1
CFR			
Pack	aging group	:	II
Labe	els	:	4.1
IMD	G		
Pack	aging group	:	II
Labe	els	:	4.1
ΙΑΤΑ	A Contraction of the second seco		
Pack aircr	king instruction (cargo aft)	:	448
	king instruction senger aircraft)	:	445
Pack	king instruction (LQ)	:	Y441
Pack	aging group	:	II
Labe	els	:	4.1
14.5 Envi	ironmental hazards		
ADR		:	Environmentally hazardous

	•
IMDG	: Marine pollutant

14.6 Special precautions for user

IMDG Code- segregation group:

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- : IMDG Code segregation group 7 Heavy metals and their salts
- : IMDG Code segregation group 15 Powdered metals

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

No data available

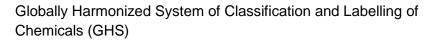
SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Prohibition/Restriction REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).	: Not applicable
Prohibition/Restriction REACH - List of substances subject to authorisation (Annex XIV)	: Not applicable
Prohibition/Restriction Regulation (EC) No 1005/2009 on substances that deplete the ozone layer	: Not applicable
Prohibition/Restriction Regulation (EU) 2019/1021 on persistent organic pollutants (recast)	: Not applicable
Prohibition/Restriction REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII)	: Not applicable

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15.2 Chemical safety assessment

No data available

SECTION 16: Other information

Full text of H-Statements

	Flammable solid. Harmful if swallowed.
	May be fatal if swallowed and enters airways.
H315 :	Causes skin irritation.
H318 :	Causes serious eye damage.
H319 :	Causes serious eye irritation.
H373 :	May cause damage to organs through prolonged or repeated exposure if swallowed.
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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