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

ROTOFLEX XA 6-206 Rich Pale Gold

Version 3.0	Revision Date 07.03.2023	Print Date 08.03.2023

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

1.1 Product identifier

Trade name	:	ROTOFLEX XA 6-206 Rich Pale Gold
Material number	:	024555C20

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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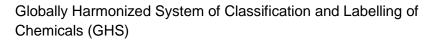


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	Short-term (acute) aquatic hazard, (Long-term (chronic) aquatic hazard,	
GHS-Labelling		
Symbol(s)		>
Signal word	: Danger	
Hazard statements	 H228: Flammable solid. H302: Harmful if swallowed. H319: Causes serious eye irritation. H410: Very toxic to aquatic life with 	
Precautionary statements	Rinse mouth. P305 + P351 + P338 IF IN EYES water for several minutes. Remove and easy to do. Continue rinsing. P337 + P317 If eye irritation pers P370 + P378 In case of fire: Use powder for metal fires.	No smoking. and receiving equipment. cal/ ventilating/ lighting handling. when using this product. ment. tective clothing/ eye protection. DWED: Get medical help. S: Rinse cautiously with
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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

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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	7440-66-6 231-175-3	Aquatic Acute;1;H400 Aquatic Chronic;1;H410	20 - 25
octadecylamine	124-30-1 204-695-3	;2;H315 ;1;H318 STOT RE;2;H373 Asp. Tox.;1;H304 Aquatic Acute;1;H400 Aquatic Chronic;1;H410	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.
If inhaled	 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 skin, rinse well with 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 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.

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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		
	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. Use a water spray to cool fully closed containers.

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.
	Remove all sources of ignition.

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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 product norm 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.

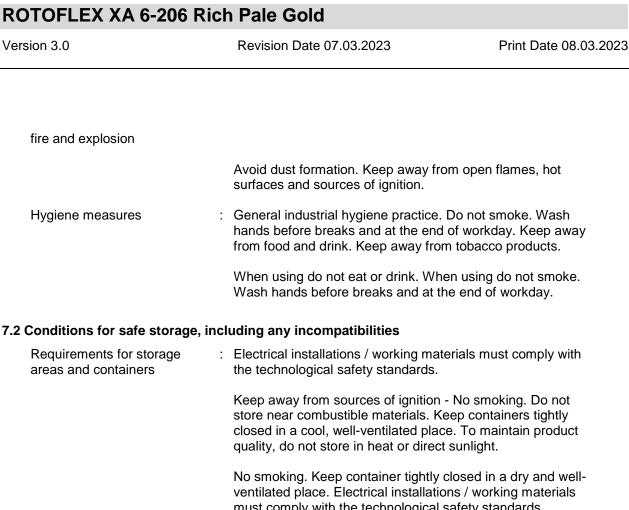
SECTION 7: Handling and storage

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.
	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	: Normal measures for preventive fire protection.

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		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)

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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: excursion factor (category)		2;(II)	2;(II)				
Further information		When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child					
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		When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child					

8.2 Exposure controls

Personal protective equipment

Eye protection

: Safety glasses

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

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Version 3.0 Revision Date 07.03.2023 Print Date 08.03.3 Hand protection Material : Leather Remarks : 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. Respiratory protection : Use suitable breathing protection if workplace concentration requires. Respiratory protection : 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.	ROTOFLEX XA 6-206 Rich Pale Gold				
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. Respiratory protection : Use suitable breathing protection if workplace concentration requires. Respiratory protection : The product should not be allowed to enter drains, water courses or the soil. : Prevent product from entering drains.	Version 3.0	Revision Date 07.03.2023	Print Date 08.03.2023		
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General advice : The product should not be allowed to enter drains, water courses or the soil. : Prevent product from entering drains.					
: Prevent product from entering drains.	•	: The product should not be allowed	d to enter drains, water		
		courses or the soil.			
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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)
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.
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

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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

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
	Heat, flames and sparks.
10 E Incompatible materials	

10.5 Incompatible materials

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Chemicals (GHS)

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Materials to avoid	: No data available	
10.6 Hazardous decompositio	on products	
Other information	: No data available	
SECTION 11: Toxicologica	l information	
11.1 Information on toxicolog	ical effects	
Acute toxicity		
Components:		
copper : Acute oral toxicity	: The component/mixture is moder ingestion.	rately toxic after single
Skin corrosion/irritation		
<u>Product</u>		
May cause skin irritation in	susceptible persons.	
Serious eye damage/eye irrita	ation	
Product		
Eye irritation		
Respiratory or skin sensitisat	tion	
No data available		
Carcinogenicity		
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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) :

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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	3.
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	3.
octadecylamine (124-30-1) :		
M-Factor Ecotoxicology Assessment	: 10	
Short-term (acute) aquatic hazard	: Very toxic to aquatic life.	
Long-term (chronic) aquatic hazard	: Very toxic to aquatic life with long lasting effects	3.

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

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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.

SECTION 13: Disposal considerations

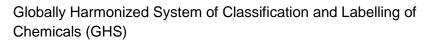
13.1 Waste treatment methods

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. Do not burn, or use a cutting torch on, the empty drum. In accordance with local and national regulations.

SECTION 14: Transport information

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IMDG	: 3089	
CFR	: 3089	
TDG	: 3089	
ADR	: 3089	
14.1 UN number		







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ΙΑΤΑ	: 3089	
14.2 Proper shipping name		
ADR	: METAL POWDER, FLAMMABLE, N	.O.S.
	(Gold bronze powder ,Copper metal	powder)
TDG	: METAL POWDER, FLAMMABLE, N	.O.S.
	(Gold bronze powder)	
CFR	: METAL POWDERS, FLAMMABLE,	N.O.S.
	(Gold bronze powder)	
IMDG	: METAL POWDER, FLAMMABLE, N	.O.S.
	(,Gold bronze powder ,Copper meta	l 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		
Packaging group	: 11	
Classification Code	: F3	
Hazard Identification Number	: 40	
Labels	: 4.1	
Tunnel restriction code	: (E)	
TDG		
Packaging group	: 11	
Labels	: 4.1	
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CFR

Packaging group	: 11
Labels	: 4.1
IMDG	
Packaging group	: 11
Labels	: 4.1
ΙΑΤΑ	
Packing instruction (cargo aircraft)	: 448
Packing instruction (passenger aircraft)	: 445
Packing instruction (LQ)	: Y441
Packaging group	: 11
Labels	: 4.1
14.5 Environmental hazards	
ADR	: Environmentally hazardous

IMDG : Marine pollutant

14.6 Special precautions for user

IMDG Code- segregation group:

- : 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

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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
REACH - List of substances subject to authorisation (Annex XIV)	: 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, mixtures and articles (Annex XVII)	: Not applicable

15.2 Chemical safety assessment

No data available

SECTION 16: Other information

Full text of H-Statements

H228 H302 H304 H315 H318 H319	 Flammable solid. Harmful if swallowed. May be fatal if swallowed and e Causes skin irritation. Causes serious eye damage. Causes serious eye irritation. 	nters airways.
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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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