according to Regulation (EC) No. 1907/2006



# STANDART ROTOFLEX XA 4-203 Pale Gold Bronze Powder

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

1.1 Product identifier

Trade name : STANDART ROTOFLEX XA 4-203 Pale Gold Bronze Powder

Product code : 024373C20

1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the : Colouring agents, pigments

Substance/Mixture

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 of person

responsible for the SDS

msds.eckart@altana.com

#### 1.4 Emergency telephone number

NCEC: +44 1235 239670 (Europe)

Call and response in your language is possible.

Contract no.: ECKART29003-NCEC.

#### **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

#### Classification (REGULATION (EC) No 1272/2008)

Flammable solids, Category 1 H228: Flammable solid.

Acute toxicity, Category 4 H302: Harmful if swallowed.

Eye irritation, Category 2 H319: Causes serious eye irritation.

Short-term (acute) aquatic hazard,

Category 1

H400: Very toxic to aquatic life.

Long-term (chronic) aquatic hazard, H410: Very toxic to aquatic life with long lasting

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Category 1 effects.

#### 2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms







Signal word : Danger

Hazard statements : H228 Flammable solid.

H302 Harmful if swallowed.

H319 Causes serious eye irritation.

H410 Very toxic to aquatic life with long lasting

effects.

Precautionary statements : Prevention:

P210 Keep away from heat, hot surfaces, sparks,

open flames and other ignition sources. No

smoking.

P264 Wash skin thoroughly after handling. P273 Avoid release to the environment.

Response:

P370 + P378 In case of fire: Use for extinction: Special

powder for metal fires.

P370 + P378 In case of fire: Use for extinction: Dry sand.

P391 Collect spillage.

#### Hazardous components which must be listed on the label:

Copper

#### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

#### **SECTION 3: Composition/information on ingredients**

#### 3.2 Mixtures

Components

Chemical name	CAS-No.	ClassificationREGUL	Concentration
	EC-No.	ATION (EC) No	(% w/w)
	Index-No.	1272/2008	
	Registration number		
Copper	7440-50-8	Acute Tox. 4; H302	>= 50 - <= 100

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	231-159-6 01-2119480154-42	Eye Irrit. 2; H319 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 ——— M-Factor (Acute aquatic toxicity): 10 M-Factor (Chronic aquatic toxicity): 10	
zinc powder — zinc dust (stabilised)	7440-66-6 231-175-3 030-001-01-9 01-2119467174-37	Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 10 - < 20
amines, hydrogenated tallow alkyl	61788-45-2 (90640-32-7) 262-976-6 612-284-00-9	Skin Irrit. 2; H315 Eye Dam. 1; H318 STOT RE 2; H373 (Liver, Gastrointestinal tract, Immune system) Asp. Tox. 1; H304 Aquatic Acute 1; H400 Aquatic Chronic 1; H410  M-Factor (Acute aquatic toxicity): 10 M-Factor (Chronic aquatic toxicity): 10	>= 0.25 - < 1
octadecylamine	124-30-1 204-695-3 612-282-00-8	Skin Irrit. 2; H315 Eye Dam. 1; H318 STOT RE 2; H373 (Liver, Gastrointestinal tract, Immune system) Asp. Tox. 1; H304 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 ———— M-Factor (Acute aquatic toxicity): 10 M-Factor (Chronic aquatic toxicity): 10	>= 0.025 - < 0.1

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For explanation of abbreviations 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 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

Risks : Harmful if swallowed.

Causes serious eye irritation.

#### 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)

according to Regulation (EC) No. 1907/2006



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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.

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 material 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.

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#### 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 :

fire and explosion

Normal measures for preventive fire protection.

Avoid dust formation. Keep away from open flames, hot

surfaces and sources of ignition.

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.

No smoking. 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 oxidizing agents, strongly alkaline and

according to Regulation (EC) No. 1907/2006



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> 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.

Further information on

Keep in a dry place.

storage stability No decomposition if stored and applied as directed.

#### 7.3 Specific end use(s)

# **SECTION 8: Exposure controls/personal protection**

#### 8.1 Control parameters

#### **Occupational Exposure Limits**

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Copper	7440-50-8	TWA (Fumes)	0.2 mg/m3 (Copper)	GB EH40
		TWA (Dusts and mists)	1 mg/m3 (Copper)	GB EH40
		STEL (Dusts and mists)	2 mg/m3 (Copper)	GB EH40
zinc powder — zinc dust (stabilised)	7440-66-6	TWA (Inhalable)	10 mg/m3	GB EH40
		TWA (Respirable fraction)	4 mg/m3	GB EH40

#### Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health effects	Value
Copper	Workers	Skin contact	Long-term systemic effects	137 mg/kg
	Workers	Skin contact	Acute systemic effects	273 mg/kg
	Workers	Inhalation	Long-term systemic effects	20 mg/m3
	Consumers	Inhalation	Long-term local effects	1 mg/m3
	Consumers	Inhalation	Acute local effects	1 mg/m3
	Consumers	Skin contact	Long-term systemic effects	137 mg/kg
	Consumers	Skin contact	Acute systemic effects	273 mg/kg
	Consumers	Ingestion	Long-term systemic effects	0.041 mg/kg
zinc powder — zinc	Workers	Inhalation	Long-term systemic	5 mg/m3

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dust (stabilised) effects Workers Skin contact Long-term systemic 83 mg/kg effects Consumers Inhalation Long-term systemic 2.5 mg/m3 effects Consumers Skin contact Long-term systemic 83 mg/kg effects 0.83 mg/kg Consumers Ingestion Long-term systemic effects Fatty acids, C16-18 Workers Skin contact Long-term systemic 10 mg/kg effects Workers Long-term systemic 17.632 mg/m3 Inhalation effects Ingestion Long-term systemic 2.5 mg/kg Consumers effects Skin contact Long-term systemic 5 mg/kg Consumers effects Consumers Inhalation Long-term systemic 4.348 mg/m3 effects amines, hydrogenated Workers Inhalation Long-term systemic 0.38 mg/m3 tallow alkyl effects Workers Inhalation Long-term local 1 mg/m3 effects Workers Inhalation Acute local effects 1 mg/m3 Consumers Inhalation Long-term systemic 0.035 mg/m3 effects

#### Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Oral

Consumers

Long-term systemic

effects

Substance name	Environmental Compartment Value	
Copper	Fresh water	0.0078 mg/l
	Marine water	0.0052 mg/l
	STP	0.230 mg/l
	Fresh water sediment	87 mg/kg
	Marine sediment	676 mg/kg
	Soil	65 mg/kg
zinc powder — zinc dust (stabilised)	Fresh water	0.0206 mg/l
	Marine water	0.0061 mg/l
	STP	0.100 mg/l
	Fresh water sediment	235.6 mg/kg
	Marine sediment	121 mg/kg
	Soil	35.6 mg/kg
amines, hydrogenated tallow alkyl	Fresh water	0.00026 mg/l
	Marine water	0.000026 mg/l
	Sewage treatment plant	0.55 mg/kg
	Fresh water sediment	3.76 mg/kg

0.04 mg/kg

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Marine sediment 376 mg/kg Soil 10 mg/kg Intermittent Release 0.0016 mg/l

#### 8.2 Exposure controls

#### Personal protective equipment

Eye/face 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

P1 filter

#### **SECTION 9: Physical and chemical properties**

#### 9.1 Information on basic physical and chemical properties

Physical state : powder

Colour gold

Odour characteristic

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Odour Threshold : No data available

Freezing point : No data available

Boiling point/boiling range : No data available

Flammability : The substance or mixture is a flammable solid with the

category 1.

Upper explosion limit / Upper

flammability limit

No data available

Lower explosion limit / Lower

flammability limit

No data available

Flash point : No data available

Auto-ignition temperature : Not relevant

Decomposition temperature : No data available

pH : substance/mixture is non-soluble (in water)

Viscosity, kinematic : No data available

Solubility(ies)

Water solubility : insoluble

Solubility in other solvents : No data available

Partition coefficient: n-

octanol/water

No data available

Vapour pressure : No data available

Relative density : No data available

Density : No data available

Relative vapour density : No data available

Particle Size Distribution :

#### 9.2 Other information

No data available

according to Regulation (EC) No. 1907/2006



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### **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.

### 10.5 Incompatible materials

#### 10.6 Hazardous decomposition products

This information is not available.

#### **SECTION 11: Toxicological information**

#### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### **Acute toxicity**

Harmful if swallowed.

**Product:** 

Acute oral toxicity : Acute toxicity estimate: 642.31 mg/kg

Method: Calculation method

#### **Components:**

Copper:

Acute oral toxicity : Assessment: The component/mixture is moderately toxic after

single ingestion.

zinc powder — zinc dust (stabilised):

Acute oral toxicity : (Rat): > 2,000 mg/kg

Acute inhalation toxicity : LC50 (Rat): 5.41 mg/l

Exposure time: 4 h

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Test atmosphere: dust/mist

amines, hydrogenated tallow alkyl:

Acute oral toxicity : LD50 (Rat): > 2,000 - 5,000 mg/kg

Method: OECD Test Guideline 401

Skin corrosion/irritation

Not classified based on available information.

**Product:** 

Remarks : May cause skin irritation in susceptible persons.

**Components:** 

Copper:

Remarks : May cause skin irritation in susceptible persons.

amines, hydrogenated tallow alkyl:

Result : Skin irritation

Remarks : May cause skin irritation in susceptible persons.

octadecylamine:

Assessment : Irritating to skin.

Serious eye damage/eye irritation

Causes serious eye irritation.

**Product:** 

Remarks : Eye irritation

**Components:** 

Copper:

Result : Eye irritation

amines, hydrogenated tallow alkyl:

Result : Irreversible effects on the eye

Remarks : May cause irreversible eye damage.

octadecylamine:

Assessment : Corrosive

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#### Respiratory or skin sensitisation

#### Skin sensitisation

Not classified based on available information.

#### Respiratory sensitisation

Not classified based on available information.

#### Germ cell mutagenicity

Not classified based on available information.

#### Carcinogenicity

Not classified based on available information.

#### Reproductive toxicity

Not classified based on available information.

#### STOT - single exposure

Not classified based on available information.

#### STOT - repeated exposure

Not classified based on available information.

#### **Components:**

#### amines, hydrogenated tallow alkyl:

Target Organs : Liver, Gastrointestinal tract, Immune system

Assessment : The substance or mixture is classified as specific target organ

toxicant, repeated exposure, category 2.

#### octadecylamine:

Exposure routes : Ingestion

Target Organs : Liver, digestive system, Immune system

Assessment : May cause damage to organs through prolonged or repeated

exposure.

#### **Aspiration toxicity**

Not classified based on available information.

#### Components:

### amines, hydrogenated tallow alkyl:

May be fatal if swallowed and enters airways.

#### octadecylamine:

May be fatal if swallowed and enters airways.

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#### 11.2 Information on other hazards

#### **Further information**

**Product:** 

Remarks : No data available

**Components:** 

Copper:

: No data available Remarks

zinc powder — zinc dust (stabilised):

Remarks : No data available

#### **SECTION 12: Ecological information**

#### 12.1 Toxicity

#### **Components:**

Copper:

M-Factor (Short-term (acute) :

aquatic hazard)

M-Factor (Long-term

(chronic) aquatic hazard)

10

**Ecotoxicology Assessment** 

Acute aquatic toxicity Very toxic to aquatic life.

Chronic aquatic toxicity : Very toxic to aquatic life with long lasting effects.

zinc powder — zinc dust (stabilised):

**Ecotoxicology Assessment** 

Acute aquatic toxicity : Very toxic to aquatic life.

: Very toxic to aquatic life with long lasting effects. Chronic aquatic toxicity

amines, hydrogenated tallow alkyl:

M-Factor (Short-term (acute) : 10

aquatic hazard)

M-Factor (Long-term

10

(chronic) aquatic hazard)

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**Ecotoxicology Assessment** 

Acute aquatic toxicity : Very toxic to aquatic life.

Chronic aquatic toxicity : Very toxic to aquatic life with long lasting effects.

octadecylamine:

M-Factor (Short-term (acute) : 10

aquatic hazard)

M-Factor (Long-term : 10

(chronic) aquatic hazard)

**Ecotoxicology Assessment** 

Acute aquatic toxicity : Very toxic to aquatic life.

Chronic aquatic toxicity : 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

**Product:** 

Assessment : This substance/mixture contains no components considered

to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of

0.1% or higher.

12.6 Endocrine disrupting properties

No data available

12.7 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.

**Components:** 

Copper:

according to Regulation (EC) No. 1907/2006



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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.

zinc powder — zinc dust (stabilised):

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.

amines, hydrogenated tallow alkyl:

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** 

European Waste Catalogue : 12 01 04 - non-ferrous metal dust and particles

European Waste Catalogue : 10 03 21 - other particulates and dust (including ball-mill dust)

containing hazardous substances

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** 

14.1 UN number or ID number

ADR : UN 3089 IMDG : UN 3089 IATA : UN 3089

14.2 UN proper shipping name

according to Regulation (EC) No. 1907/2006



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**ADR** : METAL POWDER, FLAMMABLE, N.O.S.

(Gold bronze powder)

**IMDG** : METAL POWDER, FLAMMABLE, N.O.S.

(Gold bronze powder, Copper metal powder)

IATA : Metal powder, flammable, n.o.s.

14.3 Transport hazard class(es)

Class Subsidiary risks

 ADR
 : 4.1

 IMDG
 : 4.1

 IATA
 : 4.1

14.4 Packing group

**ADR** 

Packing group : II
Classification Code : F3
Hazard Identification Number : 40
Labels : 4.1
Tunnel restriction code : (E)

**IMDG** 

Packing group : II
Labels : 4.1
EmS Code : F-G, S-G

Remarks : IMDG Code segregation group 7 - Heavy metals and their

salts, IMDG Code segregation group 15 - Powdered metals

IATA (Cargo)

Packing instruction (cargo : 448

aircraft)

Packing instruction (LQ) : Y441
Packing group : II
Labels : 4.1

IATA (Passenger)

Packing instruction : 445

(passenger aircraft)

Packing instruction (LQ) : Y441
Packing group : II
Labels : 4.1

14.5 Environmental hazards

**ADR** 

Environmentally hazardous : yes

**IMDG** 

Marine pollutant : yes

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#### 14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

#### 14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

#### **SECTION 15: Regulatory information**

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

Relevant EU provisions transposed through retained EU law

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances,

mixtures and articles (Annex XVII)

UK REACH Candidate list of substances of very high

concern (SVHC) for Authorisation

The Persistent Organic Pollutants Regulations (retained

Regulation (EU) 2019/1021 as amended for Great

Britain)

Regulation (EC) No 1005/2009 on substances that

deplete the ozone layer

UK REACH List of substances subject to authorisation

(Annex XIV)

Not applicable

Not applicable

Not applicable

Not applicable

Not applicable

# 15.2 Chemical safety assessment

No data available

#### **SECTION 16: Other information**

#### **Full text of H-Statements**

H302 : Harmful if swallowed.

H304 : 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.

H400 : Very toxic to aquatic life.

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H410 : Very toxic to aquatic life with long lasting effects.

#### Full text of other abbreviations

Acute Tox. : Acute toxicity

Aquatic Acute : Short-term (acute) aquatic hazard Aquatic Chronic : Long-term (chronic) aquatic hazard

Asp. Tox. : Aspiration hazard Éye Dam. : Serious eye damage

Eye Irrit. : Eye irritation Skin Irrit. : Skin irritation

STOT RE : Specific target organ toxicity - repeated exposure GB EH40 : UK. EH40 WEL - Workplace Exposure Limits

GB EH40 / TWA : Long-term exposure limit (8-hour TWA reference period)
GB EH40 / STEL : Short-term exposure limit (15-minute reference period)

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN -Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency: EC-Number - European Community number: ECx -Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule: ENCS - Existing and New Chemical Substances (Japan): ErCx -Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA -International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO -International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID -Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

#### **Further information**

Classification of the mixture: Classification procedure:

according to Regulation (EC) No. 1907/2006



# STANDART ROTOFLEX XA 4-203 Pale Gold Bronze Powder

Version 4.0	Revision Date: 08.03.2023	SDS Number: 102000031089	Print Date: 09.03.2023 Date of first issue: 18.01.2019
Flam	. Sol. 1	H228	Based on product data or assessment
Acute	e Tox. 4	H302	Calculation method
Eye I	rrit. 2	H319	Calculation method
Aqua	tic Acute 1	H400	Calculation method
Aqua	tic Chronic 1	H410	Calculation method

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GB / EN