**1.1 Product identifier** 

according to Regulation (EC) No. 1907/2006



## **ROTOVARIO Aqua 4 403 Pale Gold**

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

Trade name	: ROTOVARIO Aqua 4 403 Pale Gold
Product code	: 025430KX0
1.2 Relevant identified uses	of the substance or mixture and uses advised against
Use of the Substance/Mixture	: Colorant; Printing ink related material; Printing ink, Colouring agents, dyes
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)

Acute toxicity, Category 4 Eye irritation, Category 2	H302: Harmful if swallowed. H319: Causes serious eye irritation.
Short-term (acute) aquatic hazard,	H400: Very toxic to aquatic life.
Category 1	
Long-term (chronic) aquatic hazard,	H410: Very toxic to aquatic life with long lasting
Category 1	effects.

#### 2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

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Hazard	pictograms		
Signal	word	: Warning	×
Hazard	statements	: H302 H319 H410	Harmful if swallowed. Causes serious eye irritation. Very toxic to aquatic life with long lasting effects.
Precau	tionary statements	Prevention:           P264           P273           P280           Response:           P337 + P313           P391           Disposal:           P501	Wash skin thoroughly after handling. Avoid release to the environment. Wear eye protection/ face protection. If eye irritation persists: Get medical advice/ attention. Collect spillage. Dispose of contents/ container to an approved waste disposal plant.

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

Copper

#### Additional Labelling

EUH208 Contains 1,2-benzisothiazol-3(2H)-one, reaction mass of 5-chloro-2-methyl-2Hisothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1). May produce an allergic reaction.

#### 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
	231-159-6	Eye Irrit. 2; H319	
		Aquatic Acute 1;	
	01-2119480154-42	H400	

according to Regulation (EC) No. 1907/2006



ersion 0	Revision Date: 12.04.2024		nt Date: 13.04.2024 te of first issue: 03.09.2019	)
			Aquatic Chronic 1; H410	
			M-Factor (Acute aquatic toxicity): 10 M-Factor (Chronic aquatic toxicity): 10	
	oowder — zinc dust lised)	7440-66-6 231-175-3 030-001-01-9	Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 10 - < 2
		01-2119467174-37	M-Factor (Acute aquatic toxicity): 1 M-Factor (Chronic aquatic toxicity): 1	
docus	sate sodium	577-11-7 209-406-4	Skin Irrit. 2; H315 Eye Dam. 1; H318	>=1-<3
octad	ecylamine	124-30-1 204-695-3 612-282-00-8 01-2119473804-32	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	>= 0.25 - <
			M-Factor (Acute aquatic toxicity): 10 M-Factor (Chronic aquatic toxicity): 10	
1,2-be	enzisothiazol-3(2H)-one	2634-33-5 220-120-9 613-088-00-6	Acute Tox. 4; H302 Acute Tox. 2; H330 Skin Irrit. 2; H315 Eye Dam. 1; H318 Skin Sens. 1; H317 Aquatic Acute 1; H400 Aquatic Chronic 2; H411	>= 0.0025 - 0.025
			specific concentration limit Skin Sens. 1; H317	

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ersion 0	Revision Date: 12.04.2024		Number: 00031936	Print Date: 13.04.2024 Date of first issue: 03.09.2019
				>= 0.05 % Skin Sens. 1; H317 >= 0.05 %
methy	on mass of 5-chloro-2 /I-2H-isothiazol-3-one /I-2H-isothiazol-3-one	and 2-	55965-84-9 613-167-00-5	Acute Tox. 3; H301 Acute Tox. 2; H330 Acute Tox. 2; H310 Skin Corr. 1C; H314 Eye Dam. 1; H318 Skin Sens. 1; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410       >= 0.0002 0.0015         M-Factor (Acute aquatic toxicity): 100 M-Factor (Chronic aquatic toxicity): 100

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.

according to Regulation (EC) No. 1907/2006



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If inhaled		Move out of dangerous area. Show this safety data sheet to the doctor in attendance. If unconscious, place in recovery position and seek medic				
		advice. If symptoms persist, call a physician.				
In ca	se of skin contact	: Wash off immediately with soap and plenty of water.				
In case of eye contact		Remove conta Keep eye wide	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		Never give any	ry tract clear. lk or alcoholic beverages. rthing by mouth to an unconscious person. ersist, call a physician.			

#### 4.2 Most important symptoms and effects, both acute and delayed

	•	-	•		-	-
Risks				:	Harmful if swallowed.	
					Causes serious eye irritatio	on.

## 4.3 Indication of any immediate medical attention and special treatment needed

This information is not available.

### **SECTION 5: Firefighting measures**

<b>5.1 Extinguishing media</b> 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.

according to Regulation (EC) No. 1907/2006



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			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.		
SECTION	6: Accidental relea	se r	neasures		
6.1 Person	al precautions, protect	ctive	equipment and e	emergency procedures	
	nal precautions	:	Evacuate personr Ensure adequate	nel to safe areas.	
6.2 Enviror	mental precautions				
	al advice	:	courses or the so Prevent product f Prevent further le	rom entering drains. akage or spillage if safe to do so. taminates rivers and lakes or drains inform	
6.3 Method	s and material for co	ntai	nment and cleani	na up	
	ds for cleaning up	:		handling equipment.	
			Do not flush with Contain spillage, absorbent materia vermiculite) and p local / national reg Soak up with inert acid binder, unive	fer to properly labelled containers. water. and then collect with non-combustible al, (e.g. sand, earth, diatomaceous earth, place in container for disposal according to gulations (see section 13). t absorbent material (e.g. sand, silica gel, ersal binder, sawdust). 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	: 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

according to Regulation (EC) No. 1907/2006

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		on protection against explosion	:	regulations. Keep away from l	heat and sources of ignition. No smoking.
				Normal measures	for preventive fire protection.
F	lygiene	e measures	:	When using do no	hygiene practice. ot eat or drink. When using do not smoke. ore breaks and at the end of workday.
7.2 Co	onditio	ns for safe storage,	inc	luding any incom	patibilities
		ments for storage nd containers	:	store near combu closed in a cool, v	sources of ignition - No smoking. Do not ustible materials. Keep containers tightly well-ventilated place. To maintain product ore in heat or direct sunlight.
				place. Containers resealed and kep	ghtly closed in a dry and well-ventilated which are opened must be carefully t upright to prevent leakage. Electrical king materials must comply with the ety standards.
		information on conditions	:	Protect from hum	idity and water.
Ą	Advice	on common storage	:	strongly acid mate	oxidizing agents, strongly alkaline and erials in order to avoid exothermic reactions. ther with oxidizing and self-igniting products.
C	Dampne	ess	:	Keep in a dry, coo	ol and well-ventilated place.
		information on stability	:	No decomposition	n if stored and applied as directed.
7.3 Sr	pecific	end use(s)			

#### 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	7440-66-6	TWA (Inhalable)	10 mg/m3	GB EH40

according to Regulation (EC) No. 1907/2006



	n	1				1
(stabilise	2d)		WA (Respirable action)	4 m	ng/m3	GB EH40
Derived	No Effect Le	vel (DNEL) acco	ording to Regulat	ion	(EC) No. 1907/2006:	
Substan		End Use	Exposure rout		Potential health effects	Value
Copper		Workers	Dermal		Long-term systemic effects	137 mg/kg
		Workers	Dermal		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	Dermal		Long-term systemic effects	137 mg/kg
		Consumers	Dermal		Acute systemic effects	273 mg/kg
		Consumers	Oral		Long-term systemic effects	0.041 mg/kg
zinc pow dust (sta	der — zinc bilised)	Workers	Inhalation		Long-term systemic effects	5 mg/m3
		Workers	Dermal		Long-term systemic effects	83 mg/kg
		Consumers	Inhalation		Long-term systemic effects	2.5 mg/m3
		Consumers	Dermal		Long-term systemic effects	83 mg/kg
		Consumers	Oral		Long-term systemic effects	0.83 mg/kg
Fatty aci	ds, C16-18	Workers	Dermal		Long-term systemic effects	10 mg/kg
		Workers	Inhalation		Long-term systemic effects	17.632 mg/m
		Consumers	Oral		Long-term systemic effects	2.5 mg/kg
		Consumers	Dermal		Long-term systemic effects	5 mg/kg
		Consumers	Inhalation		Long-term systemic effects	4.348 mg/m3
1,2-benz 3(2H)-on	isothiazol- e	Workers	Inhalation		Long-term systemic effects	6.81 mg/m3
		Workers	Dermal		Long-term systemic effects	0.966 mg/kg
		Consumers	Inhalation	_	Long-term systemic effects	1.2 mg/m3
		Consumers	Dermal		Long-term systemic effects	0.345 mg/kg

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isothia 2-metl	9-2-methyl-2H- azol-3-one and hyl-2H- azol-3-one (3:1)				effec	its	
		Workers		Inhalation	Acut	e local effects	0.04 mg/m
		Consume	rs	Inhalation	Long effec	-term local ts	0.02 mg/m
		Consume	rs	Inhalation	Acut	e local effects	0.04 mg/m
		Consume	rs	Oral	Long effec	-term local ts	0.090 mg/k
		Consume	rs	Oral	Acut	e local effects	0.11 mg/kg
Prodi	cted No Effect Co	ncentratio	n (PN	FC) accord	ling to Regula	ation (EC) No	1907/2006.
	ance name			-	ompartment		Value
Coppe				water	ompartment		0.0078 mg/l
Coppe	51			e water			0.0078 mg/l
			STP	e water			0.230 mg/l
				water sed	ment		87 mg/kg
				e sediment			676 mg/kg
			Soil				65 mg/kg
zinc p	owder — zinc dus	t		water			0.0206 mg/l
, (stabil							0
	,		Marin	e water			0.0061 mg/l
			STP				0.100 mg/l
			Fresh	water sed	ment		235.6 mg/kg
				e sediment			121 mg/kg
			Soil				35.6 mg/kg
1,2-be	enzisothiazol-3(2H)	-one		water			0.00403 mg/l
				e water			0.000403 mg/
			STP				1.03 mg/l
				nittent wate			0.0011 mg/l
				nittent Rele			0.00011 mg/l
ļ				water sed			0.0499 mg/kg
				e sediment			0.00499 mg/k
		-	Soil				3 mg/kg
methy	on mass of 5-chlo 1-2H-isothiazol-3-c hyl-2H-isothiazol-3	one and	Fresh	water			0.00339 mg/l
			Intern	nittent wate	r release		0.00339 mg/l
			Marin	e water			0.00339 mg/l
			Intern	nittent Rele	ase		0.00339 mg/l
			STP				0.23 mg/l
			Soil				0.0471 mg/kg
			Fresh	water sed	ment		0.027 mg/kg
			Marin	e sediment			0.027 mg/kg
			Soil				0.01 mg/kg

#### 8.2 Exposure controls

Personal protective equipment

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Har	/face protection d protection Material	problems.	es nield and protective suit for abnormal processing tant gloves (butyl-rubber)
	Remarks	concerning p special workp contact). The the protective Please obset breakthrough gloves. Also conditions ur danger of cu Recommend washed after	the information given by the producer ermeability and break through times, and of place conditions (mechanical strain, duration of exact break through time can be obtained from e glove producer and this has to be observed. We the instructions regarding permeability and in time which are provided by the supplier of the take into consideration the specific local oder which the product is used, such as the ts, abrasion, and the contact time. ed preventive skin protection Skin should be from the producers of the protective
	n and body protection piratory protection	concentration : Use suitable requires.	y protection according to the amount and n of the dangerous substance at the work place. breathing protection if workplace concentration hould conform to EN 14387

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

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

Form	:	liquid
Colour	:	gold
Odour	:	characteristic
Odour Threshold	:	No data available
Melting point/range	:	Not applicable
Boiling point/boiling range	:	> 100 °C
Flammability	:	No data available
Flammability (liquids)	:	Flammable liquids
Upper explosion limit / Upper flammability limit	:	No data available

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		explosion limit / Lower ability limit	:	No data available	
	Flash p	point	:	> 100 °C	
	Auto-ig	nition temperature	:	No data available	9
	Decom	position temperature	:	No data available	9
	рН		:	6 - 8 Concentration: 1	00 %
	Viscos	ity, kinematic	:	No data available	2
		ity(ies) solubility ity in other solvents	:	insoluble No data available	)
	Partitio octano	n coefficient: n-	:	No data available	9
		r pressure	:	No data available	9
	amin	Pressure for Compone les, hydrogenated w alkyl	nts: :	< 1 hPa (20 °C)	
	2-me	tion mass of 5-chloro- ethyl-2H-isothiazol-3- and 2-methyl-2H-	:	2.2 Pa (20 °C)	
		niazol-3-one (3:1) e density	:	No data available	)
	Density	/	:	1.4 - 1.6 g/cm3	
	Relativ	e vapour density	:	No data available	9
		e characteristics ticle Size Distribution	:	No data available	9
9.2	Other in Self-ig	nformation nition	:	No data available	9
	Miscibi	lity with water	:	partly miscible	

### **SECTION 10: Stability and reactivity**

#### 10.1 Reactivity

No decomposition if stored and applied as directed.

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	nical stability ecomposition if stored	l and applied as direct	ed.					
	ibility of hazardous	reactions						
Hazar	dous reactions	: Stable under	: Stable under recommended storage conditions.					
		No decompo	sition if stored and applied as directed.					
	litions to avoid							
Cond	itions to avoid	: Do not allow	evaporation to dryness.					
		No data avail	able					
10.5 Incor	npatible materials							
	rdous decompositio	n products						
Thermal decomposition         : Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).								
	N 11: Toxicological mation on hazard cla	Information	Regulation (EC) No 1272/2008					
11.1 Infor Acute Harmi <u>Prode</u>	mation on hazard cla toxicity ful if swallowed.	l information asses as defined in F	Regulation (EC) No 1272/2008 estimate: 917.91 mg/kg					
11.1 Inform Acute Harmi <u>Produ</u> Acute	mation on hazard cla e toxicity ful if swallowed. uct:	l information asses as defined in F : Acute toxicity	Regulation (EC) No 1272/2008 estimate: 917.91 mg/kg					
11.1 Inform Acute Harmi <u>Produ</u> Acute <u>Comp</u> Copp	mation on hazard cla e toxicity ful if swallowed. <u>uct:</u> e oral toxicity <u>ponents:</u> er:	I information asses as defined in F : Acute toxicity Method: Calcu	Regulation (EC) No 1272/2008 estimate: 917.91 mg/kg lation method					
11.1 Inform Acute Harmi <u>Produ</u> Acute <u>Comp</u> Copp	mation on hazard cla e toxicity ful if swallowed. <u>uct:</u> e oral toxicity <u>ponents:</u>	I information asses as defined in F : Acute toxicity Method: Calcu	Regulation (EC) No 1272/2008 estimate: 917.91 mg/kg lation method					
11.1 Inform Acute Harmi Acute <u>Comp</u> Acute	mation on hazard cla e toxicity ful if swallowed. <u>uct:</u> e oral toxicity <u>ponents:</u> er:	I information asses as defined in F : Acute toxicity Method: Calcu : Assessment: single ingestic	Regulation (EC) No 1272/2008 estimate: 917.91 mg/kg lation method					
11.1 Inform Acute Harmi Produ Acute Copp Acute zinc j	mation on hazard cla e toxicity ful if swallowed. <u>uct:</u> e oral toxicity <u>ponents:</u> er: e oral toxicity	I information asses as defined in F : Acute toxicity Method: Calcu : Assessment: single ingestic	Regulation (EC) No 1272/2008 estimate: 917.91 mg/kg lation method					
11.1 Inform Acute Harmi Acute Comp Acute zinc J Acute	mation on hazard cla e toxicity ful if swallowed. <u>uct:</u> e oral toxicity <u>conents:</u> er: e oral toxicity	l information asses as defined in F : Acute toxicity Method: Calcu : Assessment: single ingestic (stabilised):	Regulation (EC) No 1272/2008 estimate: 917.91 mg/kg lation method The component/mixture is moderately toxic afte n. mg/kg 41 mg/l : 4 h					
11.1 Inform Acute Harmi Acute Copp Acute Zinc I Acute	mation on hazard cla toxicity ful if swallowed. <u>uct:</u> oral toxicity <b>bonents:</b> er: oral toxicity <b>bowder — zinc dust</b> oral toxicity	I information asses as defined in F : Acute toxicity Method: Calcu : Assessment: single ingestic (stabilised): : (Rat): > 2,000 : LC50 (Rat): 5. Exposure time Test atmosphe	Regulation (EC) No 1272/2008 estimate: 917.91 mg/kg lation method The component/mixture is moderately toxic afte n. mg/kg 41 mg/l : 4 h					

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Acute	inhalation toxicity	: LC50 (Rat): 0.4 mg/l Exposure time: 4 h Test atmosphere: dust/mist Assessment: The component/mixture is highly toxic after s term inhalation.
reacti (3:1):	ion mass of 5-chloro	2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-on
Acute	e oral toxicity	: Assessment: The component/mixture is toxic after single ingestion.
Acute	inhalation toxicity	: Assessment: The component/mixture is highly toxic after s term inhalation.
Acute	e dermal toxicity	: Assessment: The component/mixture is highly toxic after single contact with skin.
-	corrosion/irritation lassified based on ava	able information.
<u>Produ</u> Rema		: May cause skin irritation in susceptible persons.
<u>Com</u>	oonents:	
<b>Copp</b> Rema		: May cause skin irritation in susceptible persons.
<b>docu</b> : Resul	<b>sate sodium:</b> t	: Skin irritation
	l <b>ecylamine:</b> ssment	: Irritating to skin.
<b>1,2-b</b> e Resul	enzisothiazol-3(2H)-o t	e: : Skin irritation
	us eye damage/eye i es serious eye irritatio	
	uct:	
<u>Produ</u> Rema	ırks	: Eye irritation

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ersion )	Revision Date: 12.04.2024	SDS Number: 102000031936	Print Date: 13.04.2024 Date of first issue: 03.09.2019
Resu	lt	: Eye irritatior	1
<b>docu</b> Resu	sate sodium: <sup>It</sup>	: Corrosive	
	<b>lecylamine:</b> ssment	: Corrosive	
<b>1,2-b</b> Resu	enzisothiazol-3(2H)-o <sup>It</sup>	n <b>e:</b> : Corrosive	
react (3:1):	ion mass of 5-chloro	o-2-methyl-2H-isoth	iazol-3-one and 2-methyl-2H-isothiazol-3-one
Resu	lt	: Corrosive	
Resp	iratory or skin sensi	tisation	
	sensitisation lassified based on ava	ailable information.	
-	iratory sensitisation lassified based on ava	ailable information.	
<u>Com</u>	ponents:		
<b>1,2-b</b> Resu	<b>enzisothiazol-3(2H)-o</b> It		sensitisation by skin contact.
	<b>cell mutagenicity</b> lassified based on ava	ailable information.	
	nogenicity lassified based on ava	ailable information.	
-	oductive toxicity lassified based on ava	ailable information.	
	<b>- single exposure</b> lassified based on ava	ailable information.	
	<b>F - repeated</b> exposure lassified based on ava		
<u>Com</u>	ponents:		
Expo	<b>lecylamine:</b> sure routes et Organs ssment		ive system, Immune system Jamage to organs through prolonged or repeated

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		exposure.	
-	r <mark>ation toxicity</mark> lassified based on av	ailable information.	
<u>Com</u> p	oonents:		
	<b>lecylamine:</b> pe fatal if swallowed a	and enters airways.	
11.2 Infor	mation on other haz	ards	
Furth	er information		
Produ	uct:		
Rema	arks	: No data availat	ble
<u>Com</u> p	ponents:		
Сорр	er:		
Rema	arks	: No data availat	ble
zinc	powder — zinc dust	(stabilised):	
Rema	arks	: No data availat	ble

### 12.1 Toxicity

#### Components:

(chronic) aquatic hazard)

:	10
	10
•	
:	Very toxic to aquatic life.
:	Very toxic to aquatic life with long lasting effects.
abil	ised):
:	1
:	1
	: : abil

according to Regulation (EC) No. 1907/2006



Vers 6.0	sion	Revision Date: 12.04.2024	-	9S Number: 2000031936	Print Date: 13.04.2024 Date of first issue: 03.09.2019	
	Ecotor	kicology Assessment				
		aquatic toxicity	:	Very toxic to aq	uatic life.	
	Chroni	c aquatic toxicity	:	Very toxic to aq	uatic life with long lasting effects.	
	octade	ecylamine:				
		tor (Short-term (acute)	:	10		
	M-Fact	c hazard) tor (Long-term ic) aquatic hazard)	:	: 10		
	Ecoto	kicology Assessment				
	Acute	aquatic toxicity	:	Very toxic to aq	uatic life.	
	Chroni	c aquatic toxicity	:	: Very toxic to aquatic life with long lasting effects.		
	1,2-be	nzisothiazol-3(2H)-one	:			
	Ecoto	kicology Assessment				
	Acute	aquatic toxicity	:	Very toxic to aq	uatic life.	
	Chronic aquatic toxicity		:	Toxic to aquatic	life with long lasting effects.	
	reactic (3:1):	on mass of 5-chloro-2-	me	thyl-2H-isothiazo	ol-3-one and 2-methyl-2H-isothiazol-3-one	
	M-Factor (Short-term (acute)		:	100		
	M-Fact	c hazard) tor (Long-term ic) aquatic hazard)	:	100		
	Ecoto	kicology Assessment				
	Acute	aquatic toxicity	:	Very toxic to aq	uatic life.	
	Chroni	c aquatic toxicity	:	Very toxic to aquatic life with long lasting effects.		
12.2		tence and degradabili	ity			
12.3		<b>cumulative potential</b> a available				
12.4		i <b>ty in soil</b> a available				
12.5	Result	ts of PBT and vPvB as	sses	sment		
	<u>Produ</u>	<u>ct:</u>				
	Assess		:	to be either pers	mixture contains no components considered istent, bioaccumulative and toxic (PBT), or and very bioaccumulative (vPvB) at levels of	

according to Regulation (EC) No. 1907/2006



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	0.1% or higher.	
<b>crine disrupting pro</b> ta available	perties	
adverse effects		
<b>ict:</b> onal ecological nation	unprofessional	tal hazard cannot be excluded in the event of handling or disposal. quatic life with long lasting effects.
onents:		
er:		
onal ecological nation	unprofessional	tal hazard cannot be excluded in the event of handling or disposal. quatic life with long lasting effects.
oowder — zinc dust	(stabilised):	
onal ecological nation	unprofessional	tal hazard cannot be excluded in the event of handling or disposal. quatic life with long lasting effects.
	12.04.2024 crine disrupting pro- ta available adverse effects <u>ict:</u> onal ecological nation ponents: er: onal ecological nation	12.04.2024       102000031936         0.1% or higher.         crine disrupting properties         ta available         r adverse effects         interimentation         onal ecological         interimentation         conents:         er:         onal ecological         intion         unprofessional         Very toxic to action         onal ecological         intion         onal ecological         intion         unprofessional         Very toxic to action         intion         intion         intion         intion         intion

European Waste Catalogue	:	08 03 12 - waste ink containing dangerous 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. In accordance with local and national regulations.

### **SECTION 14: Transport information**

### 14.1 UN number or ID number

ADR	:	UN 3082
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according to Regulation (EC) No. 1907/2006



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IMD0 IATA		:	UN 3082 UN 3082	
ן 14.2 UN	proper shipping name			
ADR		:	ENVIRONMENTA N.O.S. (Copper metal po	ALLY HAZARDOUS SUBSTANCE, LIQUID, owder)
IMDO	3	:	ENVIRONMENTA N.O.S. (Copper metal po	ALLY HAZARDOUS SUBSTANCE, LIQUID, owder)
ΙΑΤΑ	۱.	:	Environmentally I (Copper metal po	hazardous substance, liquid, n.o.s. owder)
14.3 Tran	sport hazard class(es)			
			Class	Subsidiary risks
ADR		:	9	
IMDO	3	:	9	
ΙΑΤΑ	۱.	:	9	
14.4 Pacl	king group			
Clas: Haza Labe	ting group sification Code Ird Identification Number		III M6 90 9 (-)	
Labe	king group	:	III 9 F-A, S-F	
Pack aircra Pack	ting instruction (LQ)	:	964 Y964 III 9	
Pack (pas: Pack	A (Passenger) king instruction senger aircraft) king instruction (LQ) king group	::	964 Y964 III 9	

### 14.5 Environmental hazards

ADR

according to Regulation (EC) No. 1907/2006



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IMDG	nmentally hazardous	:	yes yes	
Marine pollutant 14.6 Special precautions for use Remarks			For single packag	gings <=5L / 5 kg, or combination aining inner packagings <= 5L / 5 kg net per SV375 ADR, 2.10.2.7 IMDG-Code, A197 be applied.

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)	:	Conditions of restriction for the following entries should be considered: Number on list 3
UK REACH Candidate list of substances of very high concern (SVHC) for Authorisation	:	Not applicable
The Persistent Organic Pollutants Regulations (retained Regulation (EU) 2019/1021 as amended for Great Britain)	:	Not applicable
Regulation (EC) No 1005/2009 on substances that deplete the ozone layer	:	Not applicable
UK REACH List of substances subject to authorisation (Annex XIV)	:	Not applicable

#### 15.2 Chemical safety assessment

No data available

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

Full text of H-Statements		
H301	:	Toxic if swallowed.
H302	:	Harmful if swallowed.
H304	:	May be fatal if swallowed and enters airways.
H310	:	Fatal in contact with skin.

according to Regulation (EC) No. 1907/2006



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H314 H315 H317 H318 H319 H330 H373 H400 H410 H411		<ul> <li>Causes skin</li> <li>May cause a</li> <li>Causes serio</li> <li>Causes serio</li> <li>Causes serio</li> <li>Fatal if inhale</li> <li>May cause d exposure.</li> <li>Very toxic to</li> <li>Very toxic to</li> </ul>	n allergic skin reaction. Jus eye damage. Jus eye irritation. Ed. amage to organs through prolonged or repeated
	xt of other abbreviation		
Acute Aquatio Aquatio Asp. To Eye Da Eye Irri Skin Co Skin Irr Skin So STOT GB EH GB EH	Tox. c Acute c Chronic ox. am. t. orr. rit. ens. RE	<ul> <li>Acute toxicity</li> <li>Short-term (a</li> <li>Long-term (c</li> <li>Aspiration ha</li> <li>Serious eye of</li> <li>Eye irritation</li> <li>Skin corrosic</li> <li>Skin corrosic</li> <li>Skin sensitis</li> <li>Specific targ</li> <li>UK. EH40 W</li> <li>Long-term ex</li> </ul>	cute) aquatic hazard hronic) aquatic hazard zard damage
GD EN			

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; according to Regulation (EC) No. 1907/2006



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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 mixtur	Classification procedure:	
Acute Tox. 4	H302	Calculation method
Eye Irrit. 2	H319	Calculation method
Aquatic Acute 1	H400	Calculation method
Aquatic Chronic 1	H410	Calculation method

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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