according to Regulation (EC) No. 1907/2006



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

1.1 Product identifier	
Trade name	: ROTOSTAR Aqua FP 03-19013 Rich Gold
Product code	: 025500KS0
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)

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

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

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Hazard	l pictograms	:		
Signal	word	:	Warning	
Hazaro	statements	:	H319 H410	Causes serious eye irritation. Very toxic to aquatic life with long lasting effects.
Precau	utionary statements	:	Prevention: P264 P273 P280 Response: P337 + P313 P391 Disposal:	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.
			P501	Dispose of contents/ container to an approved waste disposal plant.

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

componenta			
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	>= 20 - < 25
	231-159-6	Eye Irrit. 2; H319	
		Aquatic Acute 1;	
	01-2119480154-42	H400	
		Aquatic Chronic 1;	
		H410	
		·	
		M-Factor (Acute	

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ersion)			nt Date: 07.02.2024 e of first issue: 24.09.2019)
			aquatic toxicity): 10 M-Factor (Chronic aquatic toxicity): 10	
zinc p (stabi	owder — zinc dust lised)	7440-66-6 231-175-3 030-001-01-9 01-2119467174-37	Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 10 - <2
			M-Factor (Acute aquatic toxicity): 1 M-Factor (Chronic aquatic toxicity): 1	
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 M-Factor (Acute aquatic toxicity): 10	>= 0.25 - <
1,2-be	enzisothiazol-3(2H)-one	2634-33-5 220-120-9 613-088-00-6	M-Factor (Chronic aquatic toxicity): 10 Acute Tox. 4; H302 Acute Tox. 2; H330 Skin Irrit. 2; H315	>= 0.0025 0.025
		01-2120761540-60	Eye Dam. 1; H318 Skin Sens. 1; H317 Aquatic Acute 1; H400 Aquatic Chronic 2; H411	
			specific concentration limit Skin Sens. 1; H317 >= 0.05 % Skin Sens. 1; H317 >= 0.05 %	
methy	on mass of 5-chloro-2- d-2H-isothiazol-3-one and 2- d-2H-isothiazol-3-one (3:1)	55965-84-9 613-167-00-5	Acute Tox. 3; H301 Acute Tox. 2; H330 Acute Tox. 2; H310 Skin Corr. 1C; H314	>= 0.0002 0.0015

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01-2120764691-48 Eye Dam. 1; H318	Version	Revision Date:	SDS Number:	Print Date: 07.02.2024
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Skin Sens. 1; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 100 M-Factor (Chronic aquatic toxicity): 100 $\frac{1}{100}$ specific concentration limit Skin Corr. 1B; H314 >= 0.6 % Skin Irit. 2; H315 0.06 - < 0.6 % Skin Sens. 1; H317 >= 0.0015 % Eye Dam. 1; H318 >= 0.6 % Skin Corr. 1C; H314 >= 0.6 % Skin Corr. 1C; H314 >= 0.6 % Skin Corr. 1C; H314 >= 0.6 % Skin Sens. 1A; H317 >= 0.0015 % Eye Dam. 1; H318 >= 0.6 %			01-2120764691	Skin Sens. 1; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 100 M-Factor (Chronic aquatic toxicity): 100 specific concentration limit Skin Corr. 1B; H314 >= 0.6 % Skin Irrit. 2; H315 0.06 - < 0.6 % Eye Irrit. 2; H319 0.06 - < 0.6 % Skin Sens. 1; H317 >= 0.0015 % Eye Dam. 1; H318 >= 0.6 % Skin Irrit. 2; H315 0.06 - < 0.6 % Skin Sens. 1A; H317 >= 0.0015 % Eye Dam. 1; H318

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid meas	sures
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.

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		I	f symptoms pers	ist, call a physician.	
In case of skin contact		: \	Nash off immedi	ately with soap and plenty of water.	
In case of eye contact		F	 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		4] 1	 Induce vomiting immediately and call a physician. 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 : 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)

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

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SECTION 6: Accidental release measures

	e equipment and emergency procedures Evacuate personnel to safe areas. Ensure adequate ventilation. Use personal protective equipment.
6.2 Environmental precautions	
General advice :	The product should not be allowed to enter drains, water courses or the soil. Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.
6.3 Methods and material for contai	nment and cleaning up
Methods for cleaning up :	Use mechanical handling equipment.
	Pick up and transfer to properly labelled containers. Do not flush with water. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth,
	vermiculite) and place in container for disposal according to local / national regulations (see section 13). Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

6.4 Reference to other sections

For personal protection see section 8.

SECTION 7: Handling and storage

7.1 Precautions for 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 regulations. Advice on protection against fire and explosion : Keep away from heat and sources of ignition. No smoking.

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				Normal measures	for preventive fire protection.	
	Hygien	e measures	:	: General industrial hygiene practice. When using do not eat or drink. When using do not smo Wash hands before breaks and at the end of workday.		
7.2	Conditi	ons for safe storage,	inc	luding any incomp	patibilities	
Requirements for storage areas and containers		:	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.			
				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 e conditions	:	: Protect from humidity and water.		
	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.	
	Dampr	iess	:	Keep in a dry, coo	ol and well-ventilated place.	
		information on e stability	:	: No decomposition if stored and applied as directed.		
73	Spacific	and uso(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 (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:

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Subst	ance name	End Use	Exposure routes	Potential health effects	Value
Coppe	ər	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
	owder — zinc stabilised)	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
1,2-be 3(2H)-	enzisothiazol- one	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
chloro- isothia: 2-meth	on mass of 5- -2-methyl-2H- azol-3-one and nyl-2H- azol-3-one (3:1)	Workers	Inhalation	Long-term local effects	0.02 mg/m3
		Workers	Inhalation	Acute local effects	0.04 mg/m3
		Consumers	Inhalation	Long-term local effects	0.02 mg/m3
		Consumers	Inhalation	Acute local effects	0.04 mg/m3
		Consumers	Oral	Long-term local effects	0.090 mg/kg
		Consumers	Oral	Acute local effects	0.11 mg/kg

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

Substance name	Environmental Compartment	Value
Copper	Fresh water	0.0078 mg/l

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1				Marine water		0.0052 mg/l
				STP		0.230 mg/l
				Fresh water sed	iment	87 mg/kg
				Marine sediment	t	676 mg/kg
				Soil		65 mg/kg
	zinc p (stabil	owder — zinc dust lised)		Fresh water		0.0206 mg/l
_	(,		Marine water		0.0061 mg/l
				STP		0.100 mg/l
				Fresh water sed	iment	235.6 mg/kg
				Marine sediment	t	121 mg/kg
				Soil		35.6 mg/kg
	1,2-be	enzisothiazol-3(2H)-one		Fresh water		0.00403 mg/l
		, <i>i</i>		Marine water		0.000403 mg/l
				STP		1.03 mg/l
				Intermittent wate	r release	0.0011 mg/l
				Intermittent Rele	ase	0.00011 mg/l
				Fresh water sed	iment	0.0499 mg/kg
				Marine sediment	1	0.00499 mg/kg
				Soil		3 mg/kg
	reaction mass of 5-chloro-2- methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)		d	Fresh water		0.00339 mg/l
				Intermittent wate	r release	0.00339 mg/l
				Marine water		0.00339 mg/l
				Intermittent Rele	ase	0.00339 mg/l
				STP		0.23 mg/l
				Soil		0.0471 mg/kg
				Fresh water sed	iment	0.027 mg/kg
				Marine sediment	t	0.027 mg/kg
				Soil		0.01 mg/kg

8.2 Exposure controls

Personal protective equipment

Eye/face protection	Safety glasses Tightly fitting safety goggles Wear face-shield and protective suit for abnormal processing problems.
Hand protection	
Material	Solvent-resistant gloves (butyl-rubber)
Remarks	Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact). The exact break through time can be obtained from the protective glove producer and this has to be observed. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the

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		conditions ur danger of cur Recommend washed after	take into consideration the specific local ider which the product is used, such as the its, abrasion, and the contact time. ed preventive skin protection Skin should be contact. The suitability for a specific workplace scussed with the producers of the protective
S	kin and body protection		lothing / protection according to the amount and o of the dangerous substance at the work place.
R	espiratory protection	: Use suitable requires.	breathing protection if workplace concentration

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
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Flash point	:	> 100 °C
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
рН	:	6 - 8 Concentration: 100 %
Viscosity, kinematic	:	No data available

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Solubility(ies) Water solubility Solubility in other solvents		-	insoluble No data available		
		n coefficient: n-	:	No data available	
	octanol/water Vapour pressure		:	No data available	
	react 2-me one	Pressure for Compone tion mass of 5-chloro- ethyl-2H-isothiazol-3- and 2-methyl-2H- niazol-3-one (3:1)		2.2 Pa (20 °C)	
	Relative density		:	No data available	
	Density	/	:	1.4 - 1.6 g/cm3	
	Relativ	e vapour density	:	No data available	
		e characteristics ticle Size Distribution	:	No data available	
9.2		nformation			

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 decomposition if stored and applied as directed.
10.4 Conditions to avoid		
Conditions to avoid	:	Do not allow evaporation to dryness.

No data available

10.5 Incompatible materials

10.6 Hazardous decomposition products

Thermal decomposition : Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).

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SECTION 11: Toxicological information

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

Acute toxicity						
Not classified based on available information.						
Product:						
Acute oral toxicity	:	Acute toxicity estimate: > 2,000 mg/kg Method: Calculation method				
Components:						
Copper:						
Acute oral toxicity	:	Assessment: The component/mixture is moderately toxic after single ingestion.				
zinc powder — zinc dust (sta	abi	lised):				
Acute oral toxicity		(Rat): > 2,000 mg/kg				
Acute inhalation toxicity	:	LC50 (Rat): 5.41 mg/l Exposure time: 4 h Test atmosphere: dust/mist				
1,2-benzisothiazol-3(2H)-one	:					
Acute oral toxicity	:	Assessment: The component/mixture is moderately toxic after single ingestion.				
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 short term inhalation.				
reaction mass of 5-chloro-2- (3:1):	me	thyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one				
Acute oral toxicity	:	Assessment: The component/mixture is toxic after single ingestion.				
Acute inhalation toxicity	:	Assessment: The component/mixture is highly toxic after short term inhalation.				
Acute dermal toxicity	:	Assessment: The component/mixture is highly toxic after single contact with skin.				

Skin corrosion/irritation

Not classified based on available information.

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ersion 0	Revision Date: 06.02.2024		Number: 00032033	Print Date: 07.02.2024 Date of first issue: 24.09.2019
<u>Produ</u> Rema		: N	1ay cause ski	n irritation in susceptible persons.
Comp	onents:			
Coppe				
Rema		: N	lay cause ski	n irritation in susceptible persons.
octade	ecylamine:			
Asses	sment	: Ir	ritating to ski	ז.
	nzisothiazol-3(2H)-o			
Result		: 5	skin irritation	
	us eye damage/eye i s serious eye irritatio		I	
<u>Produ</u>	ict:			
Rema	rks	: N	lay cause irre	versible eye damage.
<u>Comp</u>	onents:			
Сорре	er:			
Result		: E	ye irritation	
octad	ecylamine:			
Asses	sment	: C	Corrosive	
1,2-be	nzisothiazol-3(2H)-o	ne:		
Result		: C	Corrosive	
	on mass of 5-chloro	-2-methy	/I-2H-isothia	zol-3-one and 2-methyl-2H-isothiazol-3-one
(3:1): Result		: C	Corrosive	
Respi	ratory or skin sensit	isation		
	sensitisation assified based on ava	ilable inf	ormation.	
-	ratory sensitisation assified based on ava	ilable inf	ormation.	
<u>Comp</u>	onents:			
1,2-be	nzisothiazol-3(2H)-o	ne:		

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Resul	t	: May cause	sensitisation by skin contact.			
	cell mutagenicity assified based on ava	ilable information.				
	nogenicity assified based on ava	ilable information.				
-	Reproductive toxicity Not classified based on available information.					
	• - single exposure assified based on ava	ilable information.				
	- repeated exposure assified based on ava					
<u>Com</u>	oonents:					
Expo Targe	ecylamine: sure routes t Organs ssment		stive system, Immune system damage to organs through prolonged or repeated			
-	ation toxicity assified based on ava	ilable information.				
<u>Comp</u>	oonents:					
	ecylamine: be fatal if swallowed a	nd enters airways.				
11.2 Infor	mation on other haz	ards				
Furth	er information					
<u>Produ</u> Rema		: No data ava	ailable			
<u>Com</u> p	oonents:					
Copp Rema		: No data ava	ailable			
zinc j Rema	oowder — zinc dust rks	(stabilised): : No data ava	ailable			

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SECTION 12: Ecological information

12.1 Toxicity

Components:		
Copper: M-Factor (Short-term (acute) aquatic hazard)	:	10
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 (sta	abil	ised):
M-Factor (Short-term (acute) aquatic hazard)	:	1
M-Factor (Long-term (chronic) aquatic hazard)	:	1
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) aquatic hazard)	:	10
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.
1,2-benzisothiazol-3(2H)-one	:	
Ecotoxicology Assessment		
Acute aquatic toxicity	:	Very toxic to aquatic life.
Chronic aquatic toxicity	:	Toxic to aquatic life with long lasting effects.
reaction mass of 5-chloro-2- (3:1):	me	thyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one
M-Factor (Short-term (acute)		100

M-Factor (Short-term (acute) : 100

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M-Fa	tic hazard) ctor (Long-term nic) aquatic hazard)	: 10	0	
	oxicology Assessment e aquatic toxicity		ery toxic to a	quatic life.
Chror	nic aquatic toxicity	: Ve	ery toxic to a	quatic life with long lasting effects.
	istence and degradab i ata available	lity		
	ccumulative potential ata available			
	i lity in soil ata available			
12.5 Resu	llts of PBT and vPvB a	assessm	ent	
<u>Prod</u> Asse	<u>uct:</u> ssment			e/mixture contains no components considered
		VE		
	ocrine disrupting prop ata available	ve 0.	ry persistent	and very bioaccumulative (vPvB) at levels of
No da		ve 0.	ry persistent	and very bioaccumulative (vPvB) at levels of
No da 12.7 Othe <u>Prod</u> Addit	ata available r adverse effects	ve 0. erties : Ar un	n environmer professiona	and very bioaccumulative (vPvB) at levels of
No da 12.7 Othe Addit inforr	ata available r adverse effects <u>uct:</u> ional ecological	ve 0. erties : Ar un	n environmer professiona	and very bioaccumulative (vPvB) at levels of
No da 12.7 Othe Addit inforr <u>Comp</u> Addit	ata available r adverse effects <u>uct:</u> ional ecological nation ponents:	ve 0. erties : Ar un Ve : Ar un	n environmer professiona ery toxic to a	and very bioaccumulative (vPvB) at levels of tal hazard cannot be excluded in the event of handling or disposal.
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according to Regulation (EC) No. 1907/2006



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SECTIO	N 13: Disposal con	siderations	

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.
Contaminated packaging	:	Empty remaining contents. Dispose of as unused product. Do not re-use empty containers.

SECTION 14: Transport information

14.1 UN number or ID number		
ADR	:	UN 3082
IMDG	:	UN 3082
ΙΑΤΑ	:	UN 3082
14.2 UN proper shipping name		
ADR	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Copper metal powder)
IMDG	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Copper metal powder)
ΙΑΤΑ	:	Environmentally hazardous substance, liquid, n.o.s. (Copper metal powder)
14.3 Transport hazard class(es)		
		Class Subsidiary risks
ADR	:	9
IMDG	:	9
ΙΑΤΑ	:	9
14.4 Packing group		
ADR Packing group Classification Code Hazard Identification Number	-	III M6 90

according to Regulation (EC) No. 1907/2006



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Label Tunne	s el restriction code	: 9 : (-)	
Label	ng group	: III : 9 : F-A, S-F	
Packi aircra	(Cargo) ng instruction (cargo ft) ng instruction (LQ)	: 964 : Y964	
	ng group	: III : 9	
Packi (pass Packi	(Passenger) ng instruction enger aircraft) ng instruction (LQ) ng group s	: 964 : Y964 : III : 9	
14.5 Envii	ronmental hazards		
ADR Enviro	onmentally hazardous	: yes	
IMDG Marin	i e pollutant	: yes	
14.6 Spec Rema	ial precautions for us Irks	: For single packagings <=5L / 5 kg, o packagings containing inner packaging inner packaging, SV375 ADR, 2.10.2 IATA-DGR may be applied.	ngs <= 5L / 5 kg net per

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

ns of restriction for the
g entries should be
red:

according to Regulation (EC) No. 1907/2006



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	EACH Candidate list (rrn (SVHC) for Author	gh :	Number on list 3 Not applicable			
The Persistent Organic Pollutants Regulations (retained : Not applicable Regulation (EU) 2019/1021 as amended for Great Britain)						
•	ation (EC) No 1005/2 te the ozone layer	:	Not applicable			
	EACH List of substar x XIV)	ces subject to authorisa	tion :	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.				
H314	:	Causes severe skin burns and eye damage.				
H315	:	Causes skin irritation.				
H317	:	May cause an allergic skin reaction.				
H318	:	Causes serious eye damage.				
H319	:	Causes serious eye irritation.				
H330	:	Fatal if inhaled.				
H373	:	May cause damage to organs through prolonged or repeated exposure.				
H400		Very toxic to aquatic life.				
H410		Very toxic to aquatic life with long lasting effects.				
H411	:	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				
Eye Dam.	:	Serious eye damage				
Eye Irrit.	:	Eye irritation				
Skin Corr.	:	Skin corrosion				
Skin Irrit.	:	Skin irritation				
Skin Sens.	:	Skin sensitisation				
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



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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	Classification procedure:	
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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