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 UV/LED FPG 730 871 FLEXO INK
Product code	: 024759U11

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

Use of the	:	Colorant; Printing ink related material; Printing ink, Colouring
Substance/Mixture		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)

Skin irritation, Category 2 Eye irritation, Category 2 Skin sensitisation, Category 1 Short-term (acute) aquatic hazard, Category 1 Long-term (chronic) aquatic hazard, Category 1 H315: Causes skin irritation.H319: Causes serious eye irritation.H317: May cause an allergic skin reaction.H400: Very toxic to aquatic life.

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

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

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Н	lazard pictograms	:		
S	Signal word	:	Warning	
н	lazard statements	:	H315 H317 H319 H410	Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Very toxic to aquatic life with long lasting effects.
Ρ	Precautionary statements	:	Prevention: P261 P264 P273 P280	Avoid breathing mist or vapours. Wash skin thoroughly after handling. Avoid release to the environment. Wear protective gloves/ eye protection/ face protection.
			Response: P333 + P313	If skin irritation or rash occurs: Get medical
			P391	advice/ attention. Collect spillage.

Hazardous components which must be listed on the label:

Propylidynetrimethanol, ethoxylated, esters with acrylic acid 2-Propenoic acid, reaction products with dipentaerythritol Glycerol, propoxylated, esters with acrylic acid phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide 2,6-bis(1,1-dimethylethyl)-4-(phenylenemethylene)cyclohexa-2,5-dien-1-one 2-Propenoic acid, reaction products with pentaerythritol

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. EC-No. Index-No. Registration number	ClassificationREGUL ATION (EC) No 1272/2008	Concentration (% w/w)
Copper	7440-50-8	Acute Tox. 4; H302 Eye Irrit. 2; H319	>= 20 - < 25
	231-159-6 01-2119480154-42	Aquatic Acute 1; H400 Aquatic Chronic 1;	

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			H410	
			M-Factor (Acute aquatic toxicity): 10 M-Factor (Chronic aquatic toxicity): 10	
hydro 1-yl)o bis(hy	oxy-1,2-ethanediyl), .alpha oomega[(1-oxo-2-propen- oxy]-, ether with 2,2- ydroxymethyl)-1,3- anediol (4:1)	51728-26-8 500-111-9 01-2119969962-19	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Aquatic Chronic 2; H411	>= 20 - <
	/lidynetrimethanol, ylated, esters with acrylic	28961-43-5 500-066-5 01-2119489900-30	Eye Irrit. 2; H319 Skin Sens. 1; H317	>= 10 - <
	penoic acid, reaction acts with dipentaerythritol	1384855-91-7 01-2119980666-22	Eye Irrit. 2; H319 Skin Sens. 1A; H317 Aquatic Chronic 3; H412	>= 2.5 - <
2,2-bi	penoic acid, polymer with is(hydroxymethyl)-1,3- anediol, methyloxirane and ne	144086-02-2 604-394-0	Eye Irrit. 2; H319 Aquatic Chronic 2; H411	>= 2.5 - <
	oowder — zinc dust llised)	7440-66-6 231-175-3 030-001-01-9 01-2119467174-37	Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 2.5 - <
	erol, propoxylated, esters acrylic acid	52408-84-1 500-114-5 01-2119487948-12	Eye Irrit. 2; H319 Skin Sens. 1; H317	>= 1 - <
trimet	yl bis(2,4,6- thylbenzoyl)-phosphine oxide	162881-26-7 423-340-5 015-189-00-5 01-2119489401-38	Skin Sens. 1; H317 Aquatic Chronic 4; H413	>= 1 - < 2
(phen	is(1,1-dimethylethyl)-4- iylenemethylene)cyclohexa- ien-1-one	7078-98-0 429-460-4 606-117-00-9	Skin Sens. 1; H317 Aquatic Chronic 4; H413	>= 0.1 - < 0
	penoic acid, reaction icts with pentaerythritol	1245638-61-2	Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Dam. 1; H318 Skin Sens. 1; H317 Aquatic Chronic 2; H411	>= 0.1 - < 0

For explanation of abbreviations see section 16.

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SECTION 4: First aid measures

4.1 Description of first aid measures				
General advice	Move the victim to fresh air.			
	Move out of dangerous area. Show this safety data sheet to the doctor in attendance. Do not leave the victim unattended.			
If inhaled	 Remove to fresh air. If unconscious, place in recovery position and seek medical advice. If symptoms persist, call a physician. 			
In case of skin contact	: Wash off immediately with soap and plenty of water.			
	If skin irritation persists, call a physician. 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	 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 skin irritation.			

May cause an allergic skin reaction. 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)

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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 extinguishing measures that are appropriate to local circumstances and the surrounding environment.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions	:	Evacuate personnel to safe areas. Ensure adequate ventilation. Use personal protective equipment.
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 co	ntaiı	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).

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			acid binder, univ	rt absorbent material (e.g. sand, silica gel, ersal binder, sawdust). closed containers for disposal.
	rence to other sections	n 8.		
SECTIO	N 7: Handling and sto	oraç	je	
7.1 Preca	autions for safe handlin	g		
Advi	ce on safe handling	:	Avoid contact with For personal pro Smoking, eating application area. Dispose of rinse regulations. Persons suscept allergies, chronic	obtain special instructions before use. th skin and eyes. tection see section 8. and drinking should be prohibited in the
	ice on protection against and explosion	:		heat and sources of ignition. No smoking.
			Normal measure	s for preventive fire protection.
Hygi	iene measures	:	When using do n	al hygiene practice. lot eat or drink. When using do not smoke. ore breaks and at the end of workday.
7.2 Cond	litions for safe storage,	inc	luding any incom	patibilities
	uirements for storage is and containers	:	store near comb closed in a cool,	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. Container resealed and kep	ightly closed in a dry and well-ventilated s which are opened must be carefully of upright to prevent leakage. Electrical rking materials must comply with the fety standards.
	her information on age conditions	:	Protect from hun	nidity and water.
Advi	ice on common storage	:	strongly acid ma	oxidizing agents, strongly alkaline and terials in order to avoid exothermic reactions. ether with oxidizing and self-igniting products.
Dam	npness	:	Keep in a dry, co	ol and well-ventilated place.

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Furth	or information on	. No decomposit	ion if stared and applied as directed

Further information on storage stability

Further information on : 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
Poly(oxy-1,2- ethanediyl), .alpha hydroomega[(1- oxo-2-propen-1- yl)oxy]-, ether with 2,2- bis(hydroxymethyl)- 1,3-propanediol (4:1)	Workers	Inhalation	Long-term systemic effects	0.88 mg/m3

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		Workers	Dermal	Long-term systemic effects	0.5 mg/kg
ol, eth	lidynetrimethan noxylated, esters norylic acid	Workers	Inhalation	Long-term systemic effects	16.2 mg/m
	·	Workers	Skin contact	Long-term systemic effects	0.8 mg/kg
		Consumers	Inhalation	Long-term systemic effects	4.9 mg/m3
		Consumers	Skin contact	Long-term systemic effects	0.48 mg/kg
		Consumers	Oral	Long-term systemic effects	1.39 mg/kg
reaction	penoic acid, on products with taerythritol	Workers	Inhalation	Long-term systemic effects	1.76 mg/m
		Workers	Skin contact	Long-term systemic effects	0.5 mg/m3
polym bis(hy 1,3-pr	penoic acid, ler with 2,2- rdroxymethyl)- ropanediol, rloxirane and le	Workers	Inhalation	Long-term systemic effects	5.87 mg/m
		Workers	Skin contact	Long-term systemic effects	3.33 mg/kg
		Consumers	Inhalation	Long-term systemic effects	1.45 mg/m
		Consumers	Skin contact	Long-term systemic effects	1.67 mg/kg
		Consumers	Ingestion	Long-term systemic effects	0.83 mg/kg
	owder — zinc stabilised)	Workers	Inhalation	Long-term systemic effects	5 mg/m3
		Workers	Skin contact	Long-term systemic effects	83 mg/kg
		Consumers	Inhalation	Long-term systemic effects	2.5 mg/m3
		Consumers	Skin contact	Long-term systemic effects	83 mg/kg
		Consumers	Ingestion	Long-term systemic effects	0.83 mg/kg
trimet	rl bis(2,4,6- hylbenzoyl)- bhine oxide	Workers	Inhalation	Long-term systemic effects	7.84 mg/m
		Workers	Dermal	Long-term systemic effects	3.0 mg/kg
		Consumers	Inhalation	Long-term systemic effects	1.93 mg/m
		Consumers	Dermal	Long-term systemic effects	1.5 mg/kg

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		Consumers	Oral	Long-term systemic effects	1.5 mg/kg
		Workers	Inhalation	Acute systemic effects	7.84 mg/m3
		Workers	Dermal	Acute systemic effects	3.3 mg/kg
		Consumers	Inhalation	Acute systemic effects	1.93 mg/m3
		Consumers	Dermal	Acute systemic effects	1.67 mg/kg
		Consumers	Oral	Acute systemic effects	0.00167 ppm
	erol, oxylated, esters acrylic acid	Workers	Inhalation	Long-term systemic effects	16.22 mg/m3
		Workers	Dermal	Long-term systemic effects	1.92 mg/kg
		Consumers	Inhalation	Long-term systemic effects	4.87 mg/m3
		Consumers	Dermal	Long-term systemic effects	1.15 mg/kg
		Consumers	Oral	Long-term systemic effects	1.39 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
	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
Poly(oxy-1,2-ethanediyl), .alpha hydroomega[(1-oxo-2-propen- 1-yl)oxy]-, ether with 2,2- bis(hydroxymethyl)-1,3- propanediol (4:1)	Soil	0.0078 mg/kg
	Fresh water	0.00176 mg/l
	Fresh water sediment	0.017 mg/kg
	Marine water	0.000176 mg/l
	Marine sediment	0.0017 mg/kg
	STP	4 mg/l
Propylidynetrimethanol, ethoxylated, esters with acrylic acid	Soil	0.00644 mg/kg
	Fresh water	0.00195 mg/l
	Fresh water sediment	0.038 mg/kg
	STP	10 mg/l
	Marine water	0.000195 mg/l
	Marine sediment	0.0038 mg/kg
	Intermittent Release	0.00195 mg/l

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	Intermittent water release	0.0195 mg/l
2-Propenoic acid, reaction	Fresh water	0.013 mg/l
products with dipentaerythritol		_
	STP	10 mg/l
	Marine sediment	0.28 mg/kg
	Fresh water sediment	2.8 mg/kg
	Marine water	0.0013 mg/l
	Soil	0.22 mg/kg
	Intermittent water release	0.13 mg/l
2-Propenoic acid, polymer with 2,2-bis(hydroxymethyl)-1,3- propanediol, methyloxirane and oxirane	Fresh water	0.0079 mg/l
	Marine water	0.00079 mg/l
	Fresh water sediment	0.119 mg/kg
	Marine sediment	0.0119 mg/kg
	Soil	0.0192 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
Glycerol, propoxylated, esters with acrylic acid	Fresh water	0.0057 mg/l
	Marine water	0.0005 mg/l
	Fresh water sediment	0.0169 mg/kg
	Marine sediment	0.0017 mg/kg
	STP	10 mg/l
	Soil	0.0011 mg/kg
phenyl bis(2,4,6- trimethylbenzoyl)-phosphine oxide	Fresh water	0.8 µg/l
	Marine water	0.8 µg/l
	STP	1 mg/l
	Fresh water sediment	0.712 mg/kg
	Marine sediment	0.712 mg/kg
	Soil	20 mg/kg
	Intermittent water release	0.8 µg/l
2-Propenoic acid, reaction products with pentaerythritol	Fresh water	0.0032 mg/l
	Fresh water sediment	1.73 mg/kg
	Marine sediment	0.173 mg/kg
	STP	10 mg/l
	Soil	0.240 mg/kg
	Intermittent water release	0.032 mg/l

8.2 Exposure controls

Personal protective equipment

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Eye	/face protection	Tightly fitting s	Safety glasses Tightly fitting safety goggles Wear face-shield and protective suit for abnormal processing				
	d protection						
ſ	Material	: Solvent-resist	ant gloves (butyl-rubber)				
F	Remarks	concerning per special workp contact). The the protective Please observ breakthrough gloves. Also ta conditions und danger of cuts Recommende washed after of	he information given by the producer ermeability and break through times, and of lace conditions (mechanical strain, duration of exact break through time can be obtained from glove producer and this has to be observed. We the instructions regarding permeability and time which are provided by the supplier of the ake into consideration the specific local der which the product is used, such as the s, abrasion, and the contact time. In preventive skin protection Skin should be contact. The suitability for a specific workplace cussed with the producers of the protective				
	and body protection	concentration : Use suitable b requires.	othing protection according to the amount and of the dangerous substance at the work place. preathing protection if workplace concentration ould conform to EN 14387				

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	:	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

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	r explosion limit / Lower nability limit	:	No data available	e
Flash	point	:	> 100 °C	
Auto-	ignition temperature	:	Not relevant	
Deco	mposition temperature	:	No data available	e
pН		:	substance/mixtu	re is non-soluble (in water)
Vi	scosity, kinematic	:	No data available	e
W	pility(ies) ater solubility plubility in other solvents	:	insoluble No data available	e
	ion coefficient: n- ol/water	:	No data available	-
Vapo	ur pressure	:	No data available	e
Relat	ive density	:	No data available	e
Densi	ity	:	1.4 g/cm3	
Relat	ive vapour density	:	No data available	e
Pa	article Size Distribution	:	No data available	e
	information ata available			

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 r	eactio	ons
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

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10.5 Incompatible materials

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

SECTION 11: Toxicological information

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

Acute toxicity Not classified based on availa <u>Product:</u> Acute oral toxicity		e information. 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 (s	tabi	ilised):
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
phenyl bis(2,4,6-trimethylbe	enz	oyl)-phosphine oxide:
Acute oral toxicity	:	LD50 (Rat): > 2,000 mg/kg Method: OECD Test Guideline 401
Acute dermal toxicity	:	LD50 (Rat): > 2,000 mg/kg Method: OECD Test Guideline 402
Skin corrosion/irritation		
Causes skin irritation.		
Product:		
Remarks	:	May cause skin irritation and/or dermatitis.
Components:		
Copper:		

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Rema	arks	: May cause ski	: May cause skin irritation in susceptible persons.				
Seric	ous eye damage/eye	irritation					
Caus	es serious eye irritatio	on.					
Prod							
Rema	arks	: May cause irre	versible eye damage.				
Com	ponents:						
Сорр	per:						
Resu	lt	: Eye irritation					
Prop	ylidynetrimethanol, e	ethoxylated, esters w	ith acrylic acid:				
Resu	lt	: Irritating to eye	9S.				
2-Pro	openoic acid, reactio	n products with dipe	ntaerythritol:				
Resu	lt	: Eye irritation					
2-Pro oxira		er with 2,2-bis(hydrox	ymethyl)-1,3-propanediol, methyloxirane and				
Resu	lt	: Eye irritation					
Glyce	erol, propoxylated, e	sters with acrylic aci	d:				
Resu	lt	: Eye irritation					
Resp	piratory or skin sensi	tisation					
	sensitisation cause an allergic skin	reaction.					
-	piratory sensitisation						
Not c	lassified based on ava	ailable information.					
Prod							
Rema	arks	: Causes sensiti	sation.				
<u>Com</u>	ponents:						
Prop	ylidynetrimethanol, o	ethoxylated, esters w	ith acrylic acid:				
Resu	lt	: May cause ser	nsitisation by skin contact.				
Rema	arks	: Causes sensiti May cause ser contact.	sation. Insitisation of susceptible persons by skin				

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2-Pro	penoic acid. reactio	n products with dipe	ntaerythritol:
Resu	-	-	a skin sensitiser, sub-category 1A.
-		esters with acrylic aci	
Resu	π	: May cause ser	sitisation by skin contact.
phen	yl bis(2,4,6-trimethy	Ibenzoyl)-phosphine	oxide:
Resu	lt	: May cause ser	sitisation by skin contact.
Germ	n cell mutagenicity		
	lassified based on av	ailable information.	
Carci	inogenicity		
Not c	lassified based on av	ailable information.	
-	oductive toxicity		
	lassified based on av	ailable information.	
	Γ - single exposure lassified based on av	ailable information.	
	Γ - repeated exposu lassified based on av		
Aspiı	ration toxicity		
Not c	lassified based on av	ailable information.	
1.2 Infor	mation on other haz	ards	
Furth	er information		
Prod	uct:		
Rema	arks	: No data availal	ble
Com	ponents:		
Сорр	ber:		
Rema	arks	: No data availal	ble
zinc	powder — zinc dust	(stabilised):	
Domo	arks	: No data availal	ale

12.1 Toxicity

Components:

Copper:

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	actor (Short-term (acute)	: 10	
M-F	atic hazard) Factor (Long-term	: 10	
· ·	ronic) aquatic hazard)		
	otoxicology Assessment ite aquatic toxicity	: Very toxic to	aquatic life
		-	
Chi	onic aquatic toxicity	: Very toxic to	aquatic life with long lasting effects.
2-P	ropenoic acid, reaction	products with dip	pentaerythritol:
Eco	otoxicology Assessment	t	
Chi	onic aquatic toxicity	: Harmful to a	quatic life with long lasting effects.
	ropenoic acid, polymer rane:	with 2,2-bis(hydr	oxymethyl)-1,3-propanediol, methyloxirane ar
Eco	otoxicology Assessment	t	
Chi	onic aquatic toxicity	: Toxic to aqua	atic life with long lasting effects.
zin	c powder — zinc dust (s	tabilised):	
Eco	otoxicology Assessment	t	
Acı	ite aquatic toxicity	: Very toxic to	aquatic life.
Chi	onic aquatic toxicity	: Very toxic to	aquatic life with long lasting effects.
phe	enyl bis(2,4,6-trimethylb	enzoyl)-phosphin	e oxide:
Eco	otoxicology Assessment	t	
Chr	onic aquatic toxicity	: May cause lo	ong lasting harmful effects to aquatic life.
	rsistence and degradabi data available	lity	
12.3 Bio	accumulative potential		
Co	mponents:		
Glv	cerol, propoxylated, est	ers with acrvlic a	cid:
Par	tition coefficient: n- anol/water	: log Pow: 2.5	
	bility in soil data available		
_	sults of PBT and vPvB a	ssessment	
	<u>oduct:</u>		

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Assessment		:	This substance/mixture contains no components cons to be either persistent, bioaccumulative and toxic (PBT very persistent and very bioaccumulative (vPvB) at lev 0.1% or higher.	
	ocrine disrupting prop ata available	ertie	S	
12.7 Othe	r adverse effects			
	uct: ional ecological nation	:	unprofessional	tal hazard cannot be excluded in the event of handling or disposal. Juatic life with long lasting effects.
Com	ponents:			
Сорр	ber:			
	ional ecological nation	:	unprofessional	tal hazard cannot be excluded in the event of handling or disposal. Juatic life with long lasting effects.
2-Pro oxira		with	2,2-bis(hydrox	ymethyl)-1,3-propanediol, methyloxirane ar
	ional ecological nation	:	unprofessional	tal hazard cannot be excluded in the event of handling or disposal. b life with long lasting effects.
zinc	powder — zinc dust (s	stabi	lised):	
	ional ecological nation	:	unprofessional	tal hazard cannot be excluded in the event of handling or disposal. Juatic life with long lasting effects.
Glyce	erol, propoxylated, est	ters	with acrylic acid	1:
	ional ecological nation	:	No data availab	le
SECTION	N 13: Disposal consi	dera	ations	
Europ	bean Waste Catalogue	:	08 03 12 - wast	e ink containing dangerous substances
13.1 Wast	e treatment methods			
Produ		:	courses or the s Do not contami chemical or use	nate ponds, waterways or ditches with

Send to a licensed waste management company.

according to Regulation (EC) No. 1907/2006



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Conta	aminated packaging	:	Empty remaining Dispose of as un Do not re-use en	used product.
SECTION	N 14: Transport inforr	nat	ion	
14.1 UN n	umber or ID number			
ADR		:	UN 3082	
IMDO	3	:	UN 3082	
ΙΑΤΑ		:	UN 3082	
14.2 UN p	roper shipping name			
ADR		:	ENVIRONMENT N.O.S. (Copper metal pe	ALLY HAZARDOUS SUBSTANCE, LIQUID, pwder)
IMDG	3	:	ENVIRONMENT N.O.S. (Copper metal pe	ALLY HAZARDOUS SUBSTANCE, LIQUID, pwder)
ΙΑΤΑ		:	Environmentally (Copper metal pe	hazardous substance, liquid, n.o.s. owder)
14.3 Tran	sport hazard class(es)			
			Class	Subsidiary risks
ADR		:	9	
IMDG	6	:	9	
ΙΑΤΑ		:	9	
14.4 Pack	ing group			
ADR Packi Class Haza Label	ing group sification Code rd Identification Number	:	III M6 90 9 (-)	
IMDO Packi Label	Ging group	:	III 9 F-A, S-F	
IATA Packi aircra	(Cargo) ing instruction (cargo ift)	:	964	
	ing instruction (LQ) ing group	:	Y964 III	

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La	abels	:	9	
IA	TA (Passenger)			
Pa	acking instruction assenger aircraft)	:	964	
	acking instruction (LQ)	:	Y964	
Pa	acking group	:	III	
La	abels	:	9	
14.5 Environmental hazards				
A	DR			
Er	nvironmentally hazardous	:	yes	
IN	IDG			
	arine pollutant	:	yes	
14.6 Sj	pecial precautions for use	ər		
Re	emarks	:	packagings conta	gings <=5L / 5 kg, or combination ining 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	 Conditions of restriction for the following entries should be considered:
the market and use of certain dangerous substances,	Number on list 3
mixtures and articles (Annex XVII)	Propylidynetrimethanol, ethoxylated, esters with acrylic acid (Number on list 3) 2-Propenoic acid, reaction products with dipentaerythritol (Number on list 3) 2-Propenoic acid, polymer with 2,2-bis(hydroxymethyl)-1,3-propanediol, methyloxirane and oxirane (Number on list 3) Glycerol, propoxylated, esters with

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				acrylic acid (Number on list 3) 2,6-bis(1,1-dimethylethyl)-4- (phenylenemethylene)cyclohexa- 2,5-dien-1-one (Number on list 3)
	K REACH Candidate list oncern (SVHC) for Author	n :	Not applicable	
Tł Re	ne Persistent Organic Po egulation (EU) 2019/102 ⁻ ritain)	ned :	Not applicable	
R	egulation (EC) No 1005/2	2009 on substances that	:	Not applicable
U		ices subject to authorisation	on :	Not applicable

15.2 Chemical safety assessment

No data available

SECTION 16: Other information

Full text of H-Statements				
H302	:	Harmful if swallowed.		
H315	:	Causes skin irritation.		
H317	:	May cause an allergic skin reaction.		
H318	:	Causes serious eye damage.		
H319	:	Causes serious eye irritation.		
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.		
H412	:	Harmful to aquatic life with long lasting effects.		
H413	:	May cause long lasting harmful effects to aquatic life.		
Full text of other abbreviations				
Acute Tox.	:	Acute toxicity		
Aquatic Acute	:	Short-term (acute) aquatic hazard		
Aquatic Chronic	:	Long-term (chronic) aquatic hazard		
Eye Dam.	:	Serious eye damage		
Evo Irrit		Eve irritation		

Eye Irrit.	:	Eye irritation
Skin Irrit.	:	Skin irritation
Skin Sens.	:	Skin sensitisation
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);



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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 th	e mixture:	Classification procedure:
Skin Irrit. 2	H315	Calculation method
Eye Irrit. 2	H319	Calculation method
Skin Sens. 1	H317	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.

GB / EN