according to Regulation (EC) No. 1907/2006



ROTOSTAR UV/LED FPG 730 875 FLEXO INK

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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 730 875 FLEXO INK
Product code	:	026991U11

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	H315: Causes skin irritation.
Eye irritation, Category 2	H319: Causes serious eye irritation.
Skin sensitisation, Category 1	H317: May cause an allergic skin reaction.
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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Hazaro	d pictograms	:		
Signal	word	:	Warning	×
Hazaro	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.
Precau	utionary 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 advice/ attention.
			P391	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. ClassificationREGUL Concentration EC-No. ATION (EC) No (% w/w) Index-No. 1272/2008 Registration number 7440-50-8 Acute Tox. 4; H302 >= 20 - < 25 Copper Eye Irrit. 2; H319 231-159-6 Aquatic Acute 1; 01-2119480154-42 H400 Aquatic Chronic 1;

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10	.10.2023 1020	000034783 Dat	te of first issue: 14.10.202	1
			H410	
			M-Factor (Acute aquatic toxicity): 10 M-Factor (Chronic aquatic toxicity): 10	
hydroome 1-yl)oxy]-, e	,2-ethanediyl), .alpha ega[(1-oxo-2-propen- ether with 2,2- ymethyl)-1,3- ol (4:1)	51728-26-8 500-111-9 01-2119969962-19	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Aquatic Chronic 2; H411	>= 20 - <
	etrimethanol, J, esters with acrylic	28961-43-5 500-066-5 01-2119489900-30	Eye Irrit. 2; H319 Skin Sens. 1; H317	>= 10 - <
	c acid, reaction ith dipentaerythritol	1384855-91-7 01-2119980666-22	Eye Irrit. 2; H319 Skin Sens. 1A; H317 Aquatic Chronic 3; H412	>= 2.5 - <
2,2-bis(hyd	c acid, polymer with roxymethyl)-1,3- J, methyloxirane and	144086-02-2 604-394-0	Eye Irrit. 2; H319 Aquatic Chronic 2; H411	>= 2.5 - <
zinc powde (stabilised)	er — zinc dust	7440-66-6 231-175-3 030-001-01-9 01-2119467174-37	Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 2.5 - <
Glycerol, p with acrylic	ropoxylated, esters acid	52408-84-1 500-114-5 01-2119487948-12	Eye Irrit. 2; H319 Skin Sens. 1; H317	>= 1 - <
	nzoyl)-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
	dimethylethyl)-4- methylene)cyclohexa- one	7078-98-0 429-460-4 606-117-00-9	Skin Sens. 1; H317 Aquatic Chronic 4; H413	>= 0.1 - <
•	c acid, reaction ith 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 - <

For explanation of abbreviations see section 16.

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SECTION 4: 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 anything by mouth to an unconscious person. If symptoms persist, call a physician. 4.2 Most important symptoms and effects, both acute and delayed	4.1 Description of first aid measur	es
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.	General advice	Move the victim 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.		Show this safety data sheet to the doctor in attendance.
In case of eye contactImmediately 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.	If inhaled	If unconscious, place in recovery position and seek medical advice.
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.	In case of skin contact	: Wash off immediately with soap and 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.		
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.	In case of eye contact	Remove contact lenses. Keep eye wide open while rinsing.
4.2 Most important symptoms and effects, both acute and delayed	If swallowed	Keep respiratory tract clear. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person.
קרב ווויסג ווווסטונמות פעווטנטוווס מווע כווכנוס. טענון מנענכ מווע עכומעכע	4.2 Most important symptoms and	effects, both acute and delayed
Risks : Causes skin irritation. May cause an allergic skin reaction.		Causes skin irritation.

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	g :	Do not allow run-off from fire fighting to enter drains or water courses.
5.3 Advice for firefighters Special protective equi for firefighters	pment :	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

	e equipment and emergency procedures 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.
C 2 Matheda and matarial far contai	nment and allowing up
6.3 Methods and material for contai	• •
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	ert absorbent material (e.g. sand, silica gel, versal binder, sawdust). e, closed containers for disposal.
	ence to other sections	- 0		
	nal protection see sectio		1e	
	-		, -	
	utions for safe handlin ce on safe handling	g :	Avoid contact w For personal pro Smoking, eating application area Dispose of rinse regulations. Persons suscep allergies, chroni be employed in	- obtain special instructions before use. with skin and eyes. otection see section 8. g and drinking should be prohibited in the
	ce on protection against nd explosion	:	used. Keep away fron	n heat and sources of ignition. No smoking.
			Normal measure	es for preventive fire protection.
Hygie	ene measures	:	When using do	ial hygiene practice. not eat or drink. When using do not smoke. fore breaks and at the end of workday.
7.2 Condi	tions for safe storage,	inc		-
	irements for storage and containers	:	store near com closed in a coo	n sources of ignition - No smoking. Do not bustible materials. Keep containers tightly l, well-ventilated place. To maintain product store in heat or direct sunlight.
			place. Containe resealed and ke installations / w	tightly closed in a dry and well-ventilated rs which are opened must be carefully ept upright to prevent leakage. Electrical orking materials must comply with the afety standards.
	er information on ge conditions	:	Protect from hu	midity and water.
Advie	ce on common storage	:	strongly acid ma	n oxidizing agents, strongly alkaline and aterials in order to avoid exothermic reactions. gether with oxidizing and self-igniting products
Dam	pness	:	Keep in a dry, c	ool and well-ventilated place.

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	er information on ge stability	: No decompo	sition 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 oxylated, esters crylic 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, ner with 2,2- rdroxymethyl)- opanediol, rloxirane and ne	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)- phine 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
2	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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E	Eye/face protection		:	Safety glasses Tightly fitting safety goggles Wear face-shield and protective suit for abnormal processing problems.				
ŀ	•	protection						
	Mat	erial	:	Solvent-resistant	gloves (butyl-rubber)			
	Ren	narks	:	Solvent-resistant gloves (butyl-rubber) 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 gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. Recommended preventive skin protection Skin should be washed after contact. The suitability for a specific workplace should be discussed with the producers of the protective gloves.				
		nd body protection atory protection	:	concentration of t Use suitable brea requires.	ng tection according to the amount and the dangerous substance at the work place. thing protection if workplace concentration d 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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	ower explosion limit / Lower ammability limit	:	No data available	•
FI	ash point	:	> 100 °C	
A	uto-ignition temperature	:	Not relevant	
D	ecomposition temperature	:	No data available)
pl	4	:	substance/mixtu	re is non-soluble (in water)
	Viscosity, kinematic	:	No data available)
S	olubility(ies) Water solubility Solubility in other solvents	:	insoluble No data available	9
	artition coefficient: n- ctanol/water	:	No data available)
V	apour pressure	:	No data available)
R	elative density	:	No data available	9
D	ensity	:	1.4 g/cm3	
R	elative vapour density	:	No data available)
	Particle Size Distribution	:	No data available	2
	ner information o 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 reaction	ioi	ns
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 E Incomp	tible meteriale			
-	atible materials	_		
	us decomposition	on prod :		xide, carbon dioxide and unburned
mennai	decomposition	•	hydrocarbons	
SECTION 1	1: Toxicologica	l inforr	nation	
11.1 Informat	tion on hazard cla	asses a	as defined in F	Regulation (EC) No 1272/2008
Acute to Not class	xicity sified based on ava	ailable i	nformation.	
Product:				
Acute ora	al toxicity	:	Acute toxicity Method: Calcu	estimate: > 2,000 mg/kg lation method
<u>Compon</u>	ents:			
Copper:				
Acute ora	al toxicity	:	Assessment: 1 single ingestio	The component/mixture is moderately toxic after n.
-	vder — zinc dust	(stabili	•	
Acute ora	al toxicity	:	(Rat): > 2,000	mg/kg
Acute inh	nalation toxicity	:	LC50 (Rat): 5.	
			Exposure time Test atmosphe	
phenyl b	bis(2,4,6-trimethyl	benzoy	/l)-phosphine	oxide:
Acute ora	al toxicity	:	LD50 (Rat): > Method: OEC	2,000 mg/kg) Test Guideline 401
Acute de	rmal toxicity	:	LD50 (Rat): > Method: OECE	2,000 mg/kg 0 Test Guideline 402
	rosion/irritation skin irritation.			
<u>Product:</u> Remarks		:	May cause ski	n irritation and/or dermatitis.
<u>Compon</u>	ents:			
Copper:				

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	Remark	<s< td=""><td>:</td><td>May cause skir</td><td>n irritation in susceptible persons.</td></s<>	:	May cause skir	n irritation in susceptible persons.
		s eye damage/eye s serious eye irritatic		on	
	Produc	<u>::</u>			
	Remark	(S	:	May cause irrev	versible eye damage.
	<u>Compc</u>	onents:			
	Coppe	r:			
	Result		:	Eye irritation	
	Propyl	idynetrimethanol, (ethoxyl	ated, esters wi	ith acrylic acid:
	Result		:	Irritating to eye	S.
	2-Prop	enoic acid, reactio	n prod	ucts with diper	ntaerythritol:
	Result		:	Eye irritation	
	2-Propoxirane		er with	2,2-bis(hydroxy	ymethyl)-1,3-propanediol, methyloxirane and
	Result		:	Eye irritation	
	Glycer	ol, propoxylated, e	sters v	vith acrylic acid	J:
	Result		:	Eye irritation	
	Respira	atory or skin sensi	tisatio	า	
		ensitisation	roactio	2	
	-	use an allergic skin		11.	
	-	atory sensitisation ssified based on ava		information.	
	<u>Produc</u> Remark		:	Causes sensitis	sation.
	Compo	onents:			
	Pronvl	idynetrimethanol, o	ethoxy	ated esters wi	ith acrylic acid:
	Result		:		sitisation by skin contact.
	Remark	<s< td=""><td>:</td><td>Causes sensitis May cause sen contact.</td><td>sation. sitisation of susceptible persons by skin</td></s<>	:	Causes sensitis May cause sen contact.	sation. sitisation of susceptible persons by skin

according to Regulation (EC) No. 1907/2006



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2-Pro Resu	•	on products with dipe : The product is	ntaerythritol: a skin sensitiser, sub-category 1A.
Glyc Resu		esters with acrylic aci : May cause ser	d: nsitisation by skin contact.
phen Resu		Ibenzoyl)-phosphine : May cause ser	oxide: nsitisation by skin contact.
	n cell mutagenicity lassified based on av	vailable information.	
	i nogenicity lassified based on av	ailable information.	
-	oductive toxicity	ailable information.	
	F - single exposure lassified based on av	ailable information.	
	F - repeated exposure lassified based on av		
-	ration toxicity lassified based on av	vailable information.	
11.2 Infor	mation on other haz	zards	
Furth	ner information		
<u>Prod</u> Rema		: No data availa	ble
<u>Com</u>	ponents:		
Copp Rema		: No data availa	ble
zinc	powder — zinc dust	(stabilised):	
Rema	arks	: No data availa	ble

12.1 Toxicity

Components:

Copper:

according to Regulation (EC) No. 1907/2006



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M-Fa	actor (Short-term (acute)	:	10	
-	tic hazard) actor (Long-term		10	
	onic) aquatic hazard)	·	0	
Eco	oxicology Assessment			
Acut	e aquatic toxicity	: \	/ery toxic to a	quatic life.
Chro	nic aquatic toxicity	: \	/ery toxic to a	quatic life with long lasting effects.
2-Pr	openoic acid, reaction	produ	cts with dipe	ntaerythritol:
Eco	oxicology Assessment			
Chro	nic aquatic toxicity	: 1	larmful to aqu	atic life with long lasting effects.
2-Pr oxira		with 2	,2-bis(hydrox	xymethyl)-1,3-propanediol, methyloxirane ar
	oxicology Assessment			
Chro	nic aquatic toxicity	: -	oxic to aquat	ic life with long lasting effects.
zinc	powder — zinc dust (st	abilis	ed):	
Eco	oxicology Assessment			
Acut	e aquatic toxicity	: \	/ery toxic to a	quatic life.
Chro	nic aquatic toxicity	: \	/ery toxic to a	quatic life with long lasting effects.
phei	nyl bis(2,4,6-trimethylbe	nzoyl)-phosphine	oxide:
	oxicology Assessment			
Chro	nic aquatic toxicity	: 1	May cause lon	g lasting harmful effects to aquatic life.
	sistence and degradabil	ity		
12.3 Bioa	accumulative potential			
Com	ponents:			
Glyc	erol, propoxylated, este	ers wi	ith acrylic aci	d:
Parti	tion coefficient: n- nol/water	: 1	og Pow: 2.52	
	ility in soil lata available			
12.5 Res	ults of PBT and vPvB a	ssess	ment	

according to Regulation (EC) No. 1907/2006



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	Assess	sment	:	to be either persis	ixture contains no components considered stent, bioaccumulative and toxic (PBT), or d very bioaccumulative (vPvB) at levels of
12.6		r ine disrupting prop e a available	ertie	S	
12.7	Other	adverse effects			
	Produc	ct:			
		onal ecological	:	unprofessional ha	hazard cannot be excluded in the event of andling or disposal. atic life with long lasting effects.
	<u>Compo</u>	onents:			
	Coppe	r:			
	Additio informa	nal ecological ation	:	unprofessional ha	hazard cannot be excluded in the event of andling or disposal. atic life with long lasting effects.
	2-Prop oxiran		with	1 2,2-bis(hydroxym	ethyl)-1,3-propanediol, methyloxirane and
	Additio informa	nal ecological ation	:	unprofessional ha	hazard cannot be excluded in the event of indling or disposal. fe with long lasting effects.
	zinc po	owder — zinc dust (st	tabi	lised):	
	-	nal ecological	:	An environmental unprofessional ha	hazard cannot be excluded in the event of andling or disposal. atic life with long lasting effects.
	Glycer	ol, propoxylated, este	ers	with acrylic acid:	
	Additio informa	ation	:	No data available	
SEC	CTION	13: Disposal consid	der	ations	
	Europe	ean Waste Catalogue	:	08 03 12 - waste	ink containing dangerous substances
13.1	Waste	treatment methods			
	Produc		:	The product shou courses or the so	Id not be allowed to enter drains, water il.

chemical or used container.

Do not contaminate 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 em	used product.
SECTIO	N 14: Transport infor	mat	tion	
14.1 UN n	number or ID number			
ADR		:	UN 3082	
IMDG	6	:	UN 3082	
ΙΑΤΑ		:	UN 3082	
4.2 UN p	proper shipping name			
ADR		:	ENVIRONMENTA N.O.S. (Copper metal po	LLY HAZARDOUS SUBSTANCE, LIQUID,
IMDG	3	:	ENVIRONMENTA N.O.S. (Copper metal po	LLY HAZARDOUS SUBSTANCE, LIQUID,
ΙΑΤΑ		:	Environmentally (Copper metal po	hazardous substance, liquid, n.o.s. owder)
4.3 Tran	sport hazard class(es)			
			Class	Subsidiary risks
ADR		:	9	
IMDG	3	:	9	
ΙΑΤΑ		:	9	
4.4 Pack	ing group			
ADR Packi Class Hazar Label	ing group ification Code rd Identification Number	:	III M6 90 9 (-)	
Label	ing group	:	III 9 F-A, S-F	
Packi aircra		:	964	
	ing instruction (LQ) ing group	:	Y964 Ⅲ	

according to Regulation (EC) No. 1907/2006



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La	bels	:	9	
IA	TA (Passenger)			
Pa	cking instruction assenger aircraft)	:	964	
	cking instruction (LQ)	:	Y964	
Pa	cking group	:	III	
La	bels	:	9	
14.5 Eı	nvironmental hazards			
A	DR			
Er	vironmentally hazardous	:	yes	
IM	DG			
	arine pollutant	:	yes	
14.6 Sp	pecial precautions for us	er		
Re	emarks	:	packagings conta	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	 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

according to Regulation (EC) No. 1907/2006



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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)
	REACH Candidate list ern (SVHC) for Author	of substances of very high	ı :	Not applicable
The	Persistent Organic Polulation (EU) 2019/1021	llutants Regulations (retair as amended for Great	ied :	Not applicable
Regu	ulation (EC) No 1005/2	009 on substances that	:	Not applicable
UKF	ete the ozone layer REACH List of substar ex XIV)	nces subject to authorisatio	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 abbreviation	าร	
Full text of other abbreviation Acute Tox.	ns :	Acute toxicity
	ns : :	Acute toxicity Short-term (acute) aquatic hazard
Acute Tox. Aquatic Acute	ns : :	
Acute Tox.	ns : : :	Short-term (acute) aquatic hazard
Acute Tox. Aquatic Acute Aquatic Chronic	ns : : : :	Short-term (acute) aquatic hazard Long-term (chronic) aquatic hazard
Acute Tox. Aquatic Acute Aquatic Chronic Eye Dam.	ns : : : :	Short-term (acute) aquatic hazard Long-term (chronic) aquatic hazard Serious eye damage
Acute Tox. Aquatic Acute Aquatic Chronic Eye Dam. Eye Irrit.	ns : : : : :	Short-term (acute) aquatic hazard Long-term (chronic) aquatic hazard Serious eye damage Eye irritation
Acute Tox. Aquatic Acute Aquatic Chronic Eye Dam. Eye Irrit. Skin Irrit.	ns : : : : :	Short-term (acute) aquatic hazard Long-term (chronic) aquatic hazard Serious eye damage Eye irritation Skin irritation Skin sensitisation
Acute Tox. Aquatic Acute Aquatic Chronic Eye Dam. Eye Irrit. Skin Irrit. Skin Sens.	ns : : : : : : : : : : : : : : : : : : :	Short-term (acute) aquatic hazard Long-term (chronic) aquatic hazard Serious eye damage Eye irritation Skin irritation

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 the r	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.

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