according to Regulation (EC) No. 1907/2006



ROTOSTAR UV 166 002 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 166 002 FLEXO INK
Product code	:	023931U10

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)

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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Hazar	d pictograms	:		
Signa	l word	:	Warning	
Hazar	d statements	:	H317 H319 H410	May cause an allergic skin reaction. Causes serious eye irritation. Very toxic to aquatic life with long lasting effects.
Preca	utionary statements	:	Prevention: P261 P273 P280	Avoid breathing mist or vapours. 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.
			P337 + P313	If eye irritation persists: Get medical advice/ attention.
			P391	Collect spillage.

Hazardous components which must be listed on the label:

Poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.-[(1-oxo-2-propenyl)oxy]-, ether with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol (3:1) Bisphenol A epoxy acrylate Glycerol, propoxylated, esters with acrylic acid 2-Propenoic acid, ester with C12-16-alkyl glycidyl ether

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

Componente			
Chemical name	CAS-No.	ClassificationREGUL	Concentration
	EC-No.	ATION (EC) No	(% w/w)
	Index-No.	1272/2008	
	Registration number		
Poly(oxy-1,2-ethanediyl), .alpha	28961-43-5	Eye Irrit. 2; H319	>= 50 - <= 100
hydroomega[(1-oxo-2-	500-066-5	Skin Sens. 1; H317	
propenyl)oxy]-, ether with 2-ethyl-		Aquatic Chronic 3;	
2-(hydroxymethyl)-1,3-	01-2119489900-30	H412	
propanediol (3:1)			
Copper	7440-50-8	Acute Tox. 4; H302	>= 20 - < 25

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	231-159-6 01-2119480154-42	Eye Irrit. 2; H319 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	
		M-Factor (Acute aquatic toxicity): 10 M-Factor (Chronic aquatic toxicity): 10	
enol A epoxy acrylate	55818-57-0 500-130-2	Skin Sens. 1; H317 Aquatic Chronic 2; H411	>= 2.5 - <
oowder — zinc dust ilised)	7440-66-6 231-175-3 030-001-01-9	Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 2.5 - <
roxy-1-(4-(4-(2-hydroxy-2- /lpropionyl)benzyl)phenyl)-2- /lpropan-1-one	474510-57-1 444-860-9 606-140-00-4 01-2119904050-59	STOT RE 2; H373 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 	>= 1 - < 2
		aquatic toxicity): 1 M-Factor (Chronic aquatic toxicity): 1	
erol, propoxylated, esters acrylic acid	52408-84-1 500-114-5 01-2110487048-12	Eye Irrit. 2; H319 Skin Sens. 1; H317	>=1-<
penoic acid, ester with C12- kyl glycidyl ether	68071-40-9	Skin Sens. 1A; H317	>=1-<1
lecylamine	124-30-1 204-695-3 612-282-00-8 01-2119473804-32	Skin Irrit. 2; H315 Eye Dam. 1; H318 STOT RE 2; H373 (Liver, Gastrointestinal tract, Immune system) Asp. Tox. 1; H304 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 0.025 - 0.1
	enol A epoxy acrylate owder — zinc dust lised) roxy-1-(4-(4-(2-hydroxy-2- /lpropionyl)benzyl)phenyl)-2- /lpropan-1-one erol, propoxylated, esters icrylic acid penoic acid, ester with C12- tyl glycidyl ether	231-159-6 01-2119480154-42 eenol A epoxy acrylate 55818-57-0 500-130-2 powder — zinc dust 1ised) 01-2119467174-37 700-11-9 01-2119467174-37 700-01-19 01-2119467174-37 700-01-19 01-2119467174-37 700-01-19 01-2119467174-37 700-01-19 01-2119467174-37 700-01-19 01-2119467174-37 700-01-19 01-2119467174-37 700-01-19 01-2119467174-37 700-11-9 01-2119904050-59 foo-140-00-4 01-2119904050-59 penoic acid, ester with C12- cyl glycidyl ether ecylamine 124-30-1 204-695-3 612-282-00-8	231-159-6 Eye Irit. 2; H319 01-2119480154-42 H400 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 10 M-Factor (Chronic aquatic toxicity): 10 M-Factor (Chronic aquatic toxicity): 10 Import 1 invoder — zinc dust 1ised) 03-001-01-9 04-2119467174-37 roxy-1-(4-(4-(2-hydroxy-2-2-thoronic 1; H410 01-2119467174-37 roxy-1-(4-(4-(2-hydroxy-2-2-thoronic 1; H410 01-2119467174-37 roxy-1-(4-(4-(2-hydroxy-2-2-thoronic 1; H410 01-21194050-59 Aquatic Chronic 1; H410 01-2119904050-59 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 1 M-Factor (Chronic 1; H410 M-Factor (Chronic 1; H410 M-Factor (Chronic 1; H410 M-Factor (Acute aquatic toxicity): 1 M-Factor (Acute aquatic toxicity): 1 M-Factor (Acute aquatic toxicity): 1 M-Factor (Chronic 1; H410 M-Factor (Chronic 1; H410 M-Factor (Chronic 1; H410

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			aquatic toxicity): 10 M-Factor (Chronic aquatic toxicity): 10

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice	:	Move the victim to fresh air.
		Move out of dangerous area. Show this safety data sheet to the doctor in attendance. 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.
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	:	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	:	Water

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m	media			High volume water jet Carbon dioxide (CO2)	
5.2 Sp	ecial	hazards arising from	the	substance or mix	kture
•	Specific hazards during firefighting		:	Do not allow run-off from fire fighting to enter drains or water courses.	
5.3 Adv	vice f	or firefighters			
•		protective equipment ghters	:	Wear self-contain necessary.	ed breathing apparatus for firefighting if
Fu	urther	information	:	Standard procedu	re for chemical fires.
				must not be disch Fire residues and be disposed of in Use extinguishing	ted fire extinguishing water separately. This arged into drains. contaminated fire extinguishing water must accordance with local regulations. measures that are appropriate to local d the surrounding environment.

SECTION 6: Accidental release measures

	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 contain	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).

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Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For personal protection see section 8.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling	:	Do not breathe vapours/dust. Avoid exposure - obtain special instructions before use. 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. Persons susceptible to skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.
Advice on protection against fire and explosion	:	Keep away from heat and sources of ignition. No smoking.
		Normal measures for preventive fire protection.
Hygiene measures	:	General industrial hygiene practice. When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.
7.2 Conditions for safe storage,	incl	uding any incompatibilities
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.
		Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Electrical installations / working materials must comply with the technological safety standards.
Further information on storage conditions	:	Protect from humidity and water.
Advice on common storage	:	Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions. Do not store together with oxidizing and self-igniting products.
Dampness		

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Furth	or information on	· No docompos	ition if stored and applied as directed

Further information on : No decomposition if stored and applied as directed. storage stability

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
Bisphenol A epoxy acrylate	Workers	Inhalation	Long-term systemic effects	1.17 mg/m3
	Workers	Dermal	Long-term systemic effects	33 mg/kg
	Consumers	Inhalation	Long-term systemic effects	0.29 mg/m3
	Consumers	Dermal	Long-term systemic effects	16.67 mg/kg
	Consumers	Oral	Long-term systemic	0.17 mg/kg

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			1	effects	1
	zinc powder — zinc dust (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
	Glycerol, propoxylated, esters with 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
Bisphenol A epoxy acrylate	Fresh water	0.025 mg/l
	Marine water	0.003 mg/l
	Intermittent Release	1 mg/l
	Fresh water sediment	8.96 mg/kg
	Marine sediment	0.896 mg/kg
	STP	10 mg/l
	Soil	1.78 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	0.00057 mg/l
	Fresh water sediment	0.0168 mg/kg
	Marine sediment	0.00168 mg/kg

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		STP	10 mg/l	
		Soil	0.0011 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 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.				
Skin and body protection	:	Impervious clothing Choose body protection according to the amount and concentration of the dangerous substance at the work place.				
Respiratory protection	:	Use suitable breathing protection if workplace concentration requires. Equipment should conform to EN 14387				

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form	: liquid	
Colour	: copper	
Odour	: characteristic	
Odour Threshold	: No data available	
Melting point/range	: Not applicable	
Boiling point/boiling range	: >100 °C	

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Flamm	ability	:	No data available	e
	explosion limit / Upper ability limit	:	No data availabl	e
	explosion limit / Lower ability limit	:	No data availabl	e
Flash	point	:	> 100 °C	
Auto-i	gnition temperature	:	No data available	e
Decon	nposition temperature	:	No data availabl	e
pН		:	substance/mixtu	re is non-soluble (in water)
Viscos	sity, kinematic	:	No data available	e
Water	lity(ies) solubility lity in other solvents	:	insoluble No data availabl	e
	on coefficient: n- bl/water	:	No data available	e
	ir pressure	:	No data available	e
Prop	Pressure for Compone bylidynetrimethanol, byylated, esters with lic acid	nts: :	0.0032 Pa (20 °	°C)
Glyd	cerol, propoxylated, ers with acrylic acid	:		°C) Test Guideline 104
Relativ	ve density	:	No data available	e
Densit	у	:	1.4 g/cm3	
Relativ	ve vapour density	:	No data available	e
	e characteristics ticle Size Distribution	:	No data available	e

No data available

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SECTIO	N 10: Stability and	reactivity	
10.1 Reac No de	-	l and applied as directe	d.
	nical stability ecomposition if stored	l and applied as directe	d.
10.3 Poss	sibility of hazardous	reactions	
Haza	rdous reactions	: Stable under r	ecommended storage conditions.
		No decompos	ition if stored and applied as directed.
	ditions to avoid		
Cond	litions to avoid	: Do not allow e	vaporation to dryness.
		No data availa	ble
10.5 Inco	mpatible materials		
10.6 Haza	rdous decompositio	n products	
	nal decomposition	•	kide, carbon dioxide and unburned (smoke).
SECTIO	N 11: Toxicologica	linformation	
11.1 Infor	mation on hazard cl	asses as defined in R	egulation (EC) No 1272/2008
	e toxicity lassified based on av	ailable information	
<u>Prod</u>	<u>uct:</u>		

Acute and taxicity \therefore Acute taxicity actimate: > 2,000 mg/kg	
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 a single ingestion.	fter
zinc powder — zinc dust (stabilised):	
Acute oral toxicity : (Rat): > 2,000 mg/kg	
Acute inhalation toxicity : LC50 (Rat): 5.41 mg/l	
Exposure time: 4 h	
Test atmosphere: dust/mist	

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-			l)benzyl)phenyl)-2-methylpropan-1-one		
Acute	oral toxicity	: LD50 (Rat): >2	2,000 mg/kg		
Acute	Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg				
	corrosion/irritation assified based on ava	ailable information.			
<u>Produ</u>	uct:				
Rema	rks	: May cause skir	n irritation and/or dermatitis.		
<u>Comp</u>	oonents:				
Сорр	er:				
Rema	rks	: May cause skir	n irritation in susceptible persons.		
	ecylamine:				
Asses	ssment	: Irritating to skir).		
	us eye damage/eye es serious eye irritatio				
<u>Produ</u> Rema		: May cause irre	versible eye damage.		
			, ,		
<u>Comp</u>	oonents:				
		.alphahydroomega ,3-propanediol (3:1):	n[(1-oxo-2-propenyl)oxy]-, ether with 2		
Resul	t	: Irritating to eye	S.		
Сорр	er:				
Resul	t	: Eye irritation			
Glyce	erol, propoxylated, e	sters with acrylic aci	d:		
Resul	t	: Eye irritation			
	ecylamine:				
Asses	ssment	: Corrosive			
Respi	ratory or skin sensi	tisation			
Skin	sensitisation				
May o	ause an allergic skin	reaction.			

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•	i ratory sensitisatior lassified based on av				
Product: Remarks : Causes sensitisation.					
<u>Comp</u>	<u>oonents:</u>				
		alphahydroomega. 1,3-propanediol (3:1):	a[(1-oxo-2-propenyl)oxy]-, ether with 2-		
Resul	t	: May cause ser	sitisation by skin contact.		
Bisph	nenol A epoxy acryl	ate:			
Resul	t	: May cause ser	nsitisation by skin contact.		
Glyce	erol. propoxvlated.	esters with acrylic aci	d:		
Resul		-	sitisation by skin contact.		
	noncia soid actory	with C12.46 allock alloc			
Z-Pro Resul	-	with C12-16-alkyl glyc : The product is	a skin sensitiser, sub-category 1A.		
Not cl Carci	cell mutagenicity lassified based on av nogenicity lassified based on av				
-	oductive toxicity lassified based on av	vailable information.			
	- single exposure				
	lassified based on av				
	 repeated exposure lassified based on av 				
<u>Comp</u>	oonents:				
2-hyd	roxy-1-(4-(4-(2-hydr	oxy-2-methylpropiony	/l)benzyl)phenyl)-2-methylpropan-1-one:		
Asses	ssment		or mixture is classified as specific target orgated ted exposure, category 2.		
octad	ecylamine:				
Targe	sure routes t Organs ssment		e system, Immune system nage to organs through prolonged or repeated		

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-	ration toxicity lassified based on av	ailable information	
	ponents:		
octac	lecylamine: be fatal if swallowed a	and enters airways.	
11.2 Infor	mation on other haz	ards	
Furth	ner information		
<u>Prod</u>	uct:		
Rema	arks	: No data availab	ble
<u>Com</u>	ponents:		
Сорр	ber:		
Rema	arks	: No data availab	ole
zinc	powder — zinc dust	(stabilised):	
Rema	arks	: No data availab	ble

SECTION 12: Ecological information

12.1 Toxicity

Components:

Poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.-[(1-oxo-2-propenyl)oxy]-, ether with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol (3:1):

Ecotoxicology Assessment

Chronic aquatic toxicity	:	Harmful to aquatic life with long lasting effects.
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.

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Bisp	henol A epoxy acrylate	:		
Ecot	oxicology Assessment			
Acute	e aquatic toxicity	:	Toxic to aquat	ic life.
Chro	nic aquatic toxicity	:	Toxic to aquat	ic life with long lasting effects.
zinc	powder — zinc dust (s	tabi	lised):	
Ecot	oxicology Assessment			
Acute	e aquatic toxicity	:	Very toxic to a	quatic life.
Chro	nic aquatic toxicity	:	Very toxic to a	quatic life with long lasting effects.
-				yl)benzyl)phenyl)-2-methylpropan-1-one:
	ctor (Short-term (acute) tic hazard)	:	1	
M-Fa	ctor (Long-term nic) aquatic hazard)	:	1	
Ecot	oxicology Assessment			
Acute	e aquatic toxicity	:	Very toxic to a	quatic life.
Chro	nic aquatic toxicity	:	Very toxic to a	quatic life with long lasting effects.
	decylamine:			
	ctor (Short-term (acute) tic hazard)	:	10	
M-Fa	ctor (Long-term nic) aquatic hazard)	:	10	
Ecot	oxicology Assessment			
Acute	e aquatic toxicity	:	Very toxic to a	quatic life.
Chro	nic aquatic toxicity	:	Very toxic to a	quatic life with long lasting effects.
	istence and degradabi	lity		
12.3 Bioa	ccumulative potential			
<u>Com</u>	ponents:			
-	erol, propoxylated, est		•	
	ion coefficient: n- nol/water	:		(23 °C) D Test Guideline 107
12.4 Mob	ility in soil			
No d	ata available			

according to Regulation (EC) No. 1907/2006



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12.5 Resu	llts of PBT and vPvB a	issessment	
Prod Asse	<u>uct:</u> ssment	to be either pe	e/mixture contains no components considered prsistent, bioaccumulative and toxic (PBT), or t and very bioaccumulative (vPvB) at levels of r.
	ocrine disrupting prop ata available	erties	
2.7 Othe	r adverse effects		
	<u>uct:</u> ional ecological nation	unprofessiona	ntal hazard cannot be excluded in the event of I handling or disposal. quatic life with long lasting effects.
<u>Com</u>	ponents:		
	er: ional ecological nation	unprofessiona	ntal hazard cannot be excluded in the event of I handling or disposal. quatic life with long lasting effects.
zinc	powder — zinc dust (s	tabilised):	
	ional ecological nation	unprofessiona	ntal hazard cannot be excluded in the event of I handling or disposal. quatic life with long lasting effects.
Glyce	erol, propoxylated, est	ers with acrylic aci	d:
Addit	ional ecological nation	: No data availa	
SECTIO	N 13: Disposal consi	derations	
Europ	bean Waste Catalogue	: 08 03 12 - was	ste ink containing dangerous substances
13.1 Wast	e treatment methods		
Produ	uct	courses or the Do not contam chemical or us	ninate ponds, waterways or ditches with
Conta	aminated packaging	: Empty remaini	ng contents.

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

according to Regulation (EC) No. 1907/2006



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SECTION	14: Transport infor	na	tion	
14.1 UN nı	umber or ID number			
ADR		:	UN 3082	
IMDG		:	UN 3082	
ΙΑΤΑ		:	UN 3082	
14.2 UN pr	roper shipping name			
ADR		:	ENVIRONMEN N.O.S. (Copper metal	TALLY HAZARDOUS SUBSTANCE, LIQUID,
IMDG		:	ENVIRONMEN N.O.S. (Copper metal	TALLY HAZARDOUS SUBSTANCE, LIQUID,
ΙΑΤΑ		:	Environmentall (Copper metal	/ hazardous substance, liquid, n.o.s. powder)
14.3 Trans	port hazard class(es)			
			Class	Subsidiary risks
ADR		:	9	
IMDG		:	9	
ΙΑΤΑ		:	9	
14.4 Packi	ng group			
ADR				
	ng group	:		
	fication Code d Identification Number	÷	M6 90	
Labels		:	9	
Tunne	I restriction code	:	(-)	
IMDG				
Packir Labels	ng group	:	III 9	
EmS (:	9 F-A, S-F	
Packir	(Cargo) ng instruction (cargo	:	964	
aircraf Packir	t) ng instruction (LQ)		Y964	
	ng group	÷	III	
Labels		:	9	
	(Passenger) ng instruction	:	964	

according to Regulation (EC) No. 1907/2006



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Pack	eenger aircraft) ing instruction (LQ) ing group Is	::	Y964 III 9	
14.5 Environmental hazards				
ADR Envir	onmentally hazardous	:	yes	
IMDO Marin	; le pollutant	:	yes	
14.6 Spec	ial precautions for use	er		
Rema	arks	:	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 the market and use of certain dangerous substances, mixtures and articles (Annex XVII)	:	Conditions of restriction for the following entries should be considered: Number on list 3 Poly(oxy-1,2-ethanediyl), .alpha hydroomega[(1-oxo-2- propenyl)oxy]-, ether with 2-ethyl-2- (hydroxymethyl)-1,3-propanediol (3:1) (Number on list 3) Bisphenol A epoxy acrylate (Number on list 3) Glycerol, propoxylated, esters with acrylic acid (Number on list 3)
UK REACH Candidate list of substances of very high concern (SVHC) for Authorisation	:	Not applicable
The Persistent Organic Pollutants Regulations (retained Regulation (EU) 2019/1021 as amended for Great Britain)	:	Not applicable

according to Regulation (EC) No. 1907/2006



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Regulation (EC) No 1005/2009 on substances that : Not applicable deplete the ozone layer UK REACH List of substances subject to authorisation : Not applicable (Annex XIV) 15.2 Chemical safety assessment : Not applicable						
	No data available					
SECTION	SECTION 16: Other information					
Full te H302 H304 H315 H317 H318 H319 H373 H400 H410 H411 H412	ext of H-Statements	 Causes skin irrita May cause an all Causes serious a Causes serious a Causes serious a May cause dama exposure. Very toxic to aqui Very toxic to aqui Toxic to aquatic 	vallowed and enters airways. ation. lergic skin reaction. eye damage. eye irritation. age to organs through prolonged or repeated			
Full te Acute Aquati Asp. T Eye D Eye In Skin I Skin S STOT GB EH GB EH	ic Acute ic Chronic Tox. am. rit. rit. Sens. RE	Acute toxicity Short-term (acute Long-term (chror Aspiration hazard Serious eye dam Eye irritation Skin irritation Skin sensitisation Specific target of UK. EH40 WEL Long-term expose	Acute toxicity Short-term (acute) aquatic hazard Long-term (chronic) aquatic hazard Aspiration hazard Serious eye damage Eye 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); 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

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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 m	Classification procedure:	
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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