according to Regulation (EC) No. 1907/2006



ROTOSTAR UV/LED 366 875 FLEXO INK

Version	Revision Date:	SDS Number:	Print Date: 10.04.2024
5.0	25.03.2024	102000033795	Date of first issue: 15.12.2020

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

1.1 Product identifier		
Trade name	:	ROTOSTAR UV/LED 366 875 FLEXO INK
Product code	:	026428U10

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)

H302: Harmful if swallowed. H315: Causes skin irritation. H319: Causes serious eye irritation. H317: May cause an allergic skin reaction. H335: May cause respiratory irritation.
H400: Very toxic to aquatic life. H410: Very toxic to aquatic life with long lasting effects.

according to Regulation (EC) No. 1907/2006



ROTOSTAR UV/LED 366 875 FLEXO INK

ersion .0	Revision Date: 25.03.2024	SDS Number: 102000033795	Print Date: 10.04.2024 Date of first issue: 15.12.2020
.2 Label	elements		
Labe	lling (REGULATION (EC) No 1272/2008)	
Hazar	rd pictograms	:	\land
		<	¥2
Signa	al word	: Warning	\checkmark
Olgric		. waning	
Hazar	rd statements	: H302	Harmful if swallowed.
		H315	Causes skin irritation.
		H317	May cause an allergic skin reaction.
		H319	Causes serious eye irritation.
		H335	May cause respiratory irritation.
		H410	Very toxic to aquatic life with long lasting effects.
-		Prevention:	
Preca	autionary statements	: P261	Avoid breathing mist or vapours.
		P264	Wash skin thoroughly after handling.
		P273	Avoid release to the environment.
		P280	Wear protective gloves/ eye protection/ fac protection.
		Response:	
		P304 + P340 +	· · · · · · · · · · · · · · · · · · ·
			air and keep comfortable for breathing. Ca
			a POISON CENTER/ doctor if you feel
		P391	unwell. Collect spillage.
		F 391	Collect spillage.
Haza	rdous components w	hich must be listed	on the label:
Сорр	er		
	alkylor monoaryl or mo		
	penoic acid, reaction p		erythritol
	erol, propoxylated, estenenol A epoxy acrylate	ers with acrylic acid	

Propylidynetrimethanol, ethoxylated, esters with acrylic acid 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

according to Regulation (EC) No. 1907/2006



ROTOSTAR UV/LED 366 875 FLEXO INK

Version	
5.0	

Revision Date: 25.03.2024

SDS Number: 102000033795

Print Date: 10.04.2024 Date of first issue: 15.12.2020

	EC-No. Index-No. Registration number	ATION (EC) No 1272/2008	(% w/w)
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)	51728-26-8 500-111-9 01-2119969962-19	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Aquatic Chronic 2; H411	>= 25 - < 50
Copper	7440-50-8 231-159-6 01-2119480154-42	Acute Tox. 4; H302 Eye Irrit. 2; H319 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 10 M-Factor (Chronic aquatic toxicity): 10	>= 25 - < 50
monoalkylor monoaryl or monoalkylaryl esters of acrylic acid	64194-22-5 264-727-7 607-133-00-9	Acute Tox. 4; H332 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1A; H317 STOT SE 3; H335 (Respiratory system) Aquatic Chronic 3; H412 specific concentration limit STOT SE 3; H335 >= 10 % STOT SE 3; H335 >= 10 %	>= 10 - < 20
2-Propenoic acid, reaction products with dipentaerythritol	1384855-91-7 01-2119980666-22	Eye Irrit. 2; H319 Skin Sens. 1A; H317 Aquatic Chronic 3; H412	>= 2.5 - < 10
Glycerol, propoxylated, esters with acrylic acid	52408-84-1 500-114-5 01-2119487948-12	Eye Irrit. 2; H319 Skin Sens. 1; H317	>= 1 - < 10
zinc powder — zinc dust (stabilised)	7440-66-6 231-175-3 030-001-01-9 01-2119467174-37	Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute	>= 2.5 - < 10
		aquatic toxicity): 1	

according to Regulation (EC) No. 1907/2006



ROTOSTAR UV/LED 366 875 FLEXO INK

sion	Revision Date: 25.03.2024	SDS Number: 102000033795	Print Date: 10.04.2024 Date of first issue: 15.12.2020	0
			M-Factor (Chronic aquatic toxicity): 1	
Bisph	enol A epoxy acrylate	55818-57-0 500-130-2	Skin Sens. 1; H317 Aquatic Chronic 2; H411	>= 0.25 - <
	rlidynetrimethanol, ylated, esters with acrylic	28961-43-5 500-066-5 01-211948990	Eye Irrit. 2; H319 Skin Sens. 1; H317 0-30	>= 0.1 - <
	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
amine	es, hydrogenated tallow a	alkyl 61788-45-2(90 32-7) 262-976-6 612-284-00-9	640-Skin Irrit. 2; H315Eye Dam. 1; H318STOT RE 2; H373(Liver,Gastrointestinal tract,Immune system)Asp. Tox. 1; H304Aquatic Acute 1;H400Aquatic Chronic 1;H410M-Factor (Acuteaquatic toxicity): 10M-Factor (Chronicaquatic toxicity): 10	>= 0.0025 - 0.025

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.
lf inhaled	 Remove to fresh air. If unconscious, place in recovery position and seek medical advice. If symptoms persist, call a physician.

according to Regulation (EC) No. 1907/2006



ROTOSTAR UV/LED 366 875 FLEXO INK

Version 5.0	Revision Date: 25.03.2024	SDS Number: Print Date: 10.04.2024 102000033795 Date of first issue: 15.12.2020				
In cas	se 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 cas	se 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. 	n.			
4.2 Most i	4.2 Most important symptoms and effects, both acute and delayed					
Risks		 Harmful if swallowed. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. May cause respiratory irritation. 				

4.3 Indication of any immediate medical attention and special treatment needed This information is not available.

SECTION 5: Firefighting measures

5.1 Extinguishing media Suitable extinguishing media	:	Special powder against metal fire Dry sand ABC powder
Unsuitable extinguishing media	:	Water High volume water jet Carbon dioxide (CO2)
5.2 Special hazards arising from	the	e 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

according to Regulation (EC) No. 1907/2006



ROTOSTAR UV/LED 366 875 FLEXO INK

Version 5.0	Revision Date: 25.03.2024	SDS Numbe 10200003379					
		Fire resid be dispo Use extir	must not be discharged into drains. Fire residues and contaminated fire extinguishing water m be disposed of in accordance with local regulations. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.				
SECTIO	N 6: Accidental rele	ase measures	3				
6.1 Perso	nal precautions, prot	ective equipme	ent and emergency procedures				
Perso	onal precautions	Ensure a	e personnel to safe areas. Idequate ventilation. Ional protective equipment.				
6.2 Enviro	onmental precautions	5					
Gene	ral advice	courses Prevent Prevent If the pro	duct should not be allowed to enter drains, water or the soil. product from entering drains. further leakage or spillage if safe to do so. duct contaminates rivers and lakes or drains inform re authorities.				
6.3 Metho	ds and material for o	ontainment an	d cleaning up				
	ods for cleaning up		hanical handling equipment.				
		Do not fl Contain absorbe vermicul	and transfer to properly labelled containers. ush with water. spillage, and then collect with non-combustible nt material, (e.g. sand, earth, diatomaceous earth, te) and place in container for disposal according to tional regulations (see section 13).				
		acid bind	with inert absorbent material (e.g. sand, silica gel, ler, universal binder, sawdust). suitable, closed containers for disposal.				
	nce to other section						

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

according to Regulation (EC) No. 1907/2006



ROTOSTAR UV/LED 366 875 FLEXO INK

24 5.12.2020
th local and national n problems or asthma, y disease should not is mixture is being nition. No smoking.
tection.
ising do not smoke. nd of workday.
o smoking. Do not containers tightly To maintain product nlight.
nd well-ventilated ist be carefully ikage. Electrical omply with the
gly alkaline and exothermic reactions. I self-igniting products.
place.
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

according to Regulation (EC) No. 1907/2006



sion	Revision Date 25.03.2024		3 Numl 000033			ate: 10.04.2024 f first issue: 15.12.2020	1
			TW/ mist	A (Dusts and ts)		ng/m3 opper)	GB EH40
			STE mist	L (Dusts and ts)	2 n	ng/m3 ppper)	GB EH40
zinc po zinc du (stabili	ust	7440-66-6		A (Inhalable)		mg/m3	GB EH40
(otabili				A (Respirable tion)	4 n	ng/m3	GB EH40
Derive	ed No Effect Le	vel (DNEL) a	accord	ling to Regula	tion	(EC) No. 1907/2006:	
Substa	ance name	End Use		Exposure rou	ites	Potential health effects	Value
ethane hydro- oxo-2- yl)oxy 2,2- bis(hydro- bis(hydro- bis)	oxy-1,2- ediyl), .alpha .omega[(1- .propen-1-]-, ether with droxymethyl)- opanediol (4:1)	Workers		Inhalation		Long-term systemic effects	0.88 mg/m
		Workers		Dermal		Long-term systemic effects	0.5 mg/kg
Сорре	er	Workers		Dermal		Long-term systemic effects	137 mg/kg
		Workers		Dermal		Acute systemic effects	273 mg/kg
		Workers		Inhalation		Long-term systemic effects	20 mg/m3
		Consumer	S	Inhalation		Long-term local effects	1 mg/m3
		Consumer	'S	Inhalation		Acute local effects	1 mg/m3
		Consumer	ſS	Dermal		Long-term systemic effects	137 mg/kg
		Consumer	ſS	Dermal		Acute systemic effects	273 mg/kg
		Consumer	ſS	Oral		Long-term systemic effects	0.041 mg/k
or mor	alkylor monoary noalkylaryl of acrylic acid	Workers		Inhalation		Long-term systemic effects	5.88 mg/m3
	•	Workers		Dermal		Long-term systemic effects	0.83 mg/kg
		Consumer	'S	Inhalation		Long-term systemic effects	1.45 mg/m3
		Consumer	ſS	Dermal		Long-term systemic effects	0.42 mg/kg
		Consumer	'S	Oral		Long-term systemic effects	0.42 mg/kg
	enoic acid, on products with	Workers		Inhalation		Long-term systemic effects	1.76 mg/m3

according to Regulation (EC) No. 1907/2006



sion	Revision Date: 25.03.2024	SDS Nui 1020000		rint Date: 10.04.2024 Pate of first issue: 15.12.2020	
dinent	aerythritol				
dipont		Workers	Dermal	Long-term systemic effects	0.5 mg/m3
	ol, xylated, esters crylic acid	Workers	Inhalation	Long-term systemic effects	16.22 mg/m
	, ,	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
	owder — zinc stabilised)	Workers	Inhalation	Long-term systemic effects	5 mg/m3
		Workers	Dermal	Long-term systemic effects	83 mg/kg
		Consumers	Inhalation	Long-term systemic effects	2.5 mg/m3
		Consumers	Dermal	Long-term systemic effects	83 mg/kg
		Consumers	Oral	Long-term systemic effects	0.83 mg/kg
Bisphe acrylat	enol A epoxy te	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/k
		Consumers	Oral	Long-term systemic effects	0.17 mg/kg
ol, eth	lidynetrimethan oxylated, esters crylic acid	Workers	Inhalation	Long-term systemic effects	16.2 mg/m3
		Workers	Dermal	Long-term systemic effects	0.8 mg/kg
		Consumers	Inhalation	Long-term systemic effects	4.9 mg/m3
		Consumers	Dermal	Long-term systemic effects	0.48 mg/kg
		Consumers	Oral	Long-term systemic effects	1.39 mg/kg
amines tallow	s, hydrogenated alkyl	Workers	Inhalation	Long-term systemic effects	0.38 mg/m3
•		Workers	Inhalation	Long-term local effects	1 mg/m3
		Workers	Inhalation	Acute local effects	1 mg/m3 0.035 mg/m



according to Regulation (EC) No. 1907/2006



	25.03.2024	1020	000033	Date	e of first issue: 15	.12.2020	
		I		I			I
		Consume	rs	Oral	effects Long-term sy	stemic	0.04 mg/kg
			-		effects		5.0
Predic	cted No Effect C	oncentratio	n (PN	EC) according	to Regulation (E	C) No. 1	907/2006:
	ance name			onmental Compa	artment	١	/alue
hydro 1-yl)ox bis(hy	oxy-1,2-ethanediy omega[(1-oxo- xy]-, ether with 2,3 droxymethyl)-1,3 nediol (4:1)	2-propen- 2-	Soil			C	.0078 mg/kg
p.0p.4			Frest	n water		C	.00176 mg/l
				water sediment			.017 mg/kg
				ne water			.000176 mg/
				ne sediment			.0017 mg/kg
			STP				mg/l
Coppe	er			n water			.0078 mg/l
			Marir	ne water			.0052 mg/l
			STP				.230 mg/l
			Fresh	n water sediment			7 mg/kg
			Marir	ne sediment		6	76 mg/kg
			Soil			6	5 mg/kg
	alkylor monoaryl o alkylaryl esters of		Fresr	n water			.001 mg/l
				ne water			.001 mg/l
			STP				.7 mg/l
			Fresh water sediment				.031 mg/kg
			Marine sediment				.003 mg/kg
				(intermittent rele	ease)		.012 mg/l
	penoic acid, react cts with dipentaer		Fresh	n water		C	.013 mg/l
•			STP			1	0 mg/l
			Marir	ne sediment			.28 mg/kg
				n water sediment			.8 mg/kg
				ne water			.0013 mg/l
			Soil				.22 mg/kg
				nittent water rele	ase		.13 mg/l
	rol, propoxylated, crylic acid	esters	Fresh	n water		C	.0057 mg/l
			Marir	ne water		C	.00057 mg/l
				n water sediment		C	.0168 mg/kg
				ne sediment			.00168 mg/k
			STP				0 mg/l
			Soil				.0011 mg/kg
zinc p (stabil	owder — zinc dus ised)	st	Fresh	n water		C	.0206 mg/l
10000			Marin	ne water			.0061 mg/l
			IVIAIII				

according to Regulation (EC) No. 1907/2006



ROTOSTAR UV/LED 366 875 FLEXO INK

Version	
5.0	

Revision Date: 25.03.2024

SDS Number: 102000033795

Print Date: 10.04.2024 Date of first issue: 15.12.2020

	Marine sediment	121 mg/kg
	Soil	35.6 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
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
	Intermittent water release	0.0195 mg/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
amines, hydrogenated tallow alkyl	Fresh water	0.00026 mg/l
	Marine water	0.000026 mg/l
	Sewage treatment plant	0.55 mg/kg
	Fresh water sediment	3.76 mg/kg
	Marine sediment	376 mg/kg
	Soil	10 mg/kg
	Intermittent Release	0.0016 mg/l

8.2 Exposure controls

Personal protective equipmer	t
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.

according to Regulation (EC) No. 1907/2006



ROTOSTAR UV/LED 366 875 FLEXO INK

Version 5.0	Revision Date: 25.03.2024	SDS Number: 102000033795	Print Date: 10.04.2024 Date of first issue: 15.12.2020
		breakthrough tir gloves. Also tak conditions unde danger of cuts, Recommended washed after co	the instructions regarding permeability and me which are provided by the supplier of the ke into consideration the specific local er which the product is used, such as the abrasion, and the contact time. preventive skin protection Skin should be ontact. The suitability for a specific workplace ussed with the producers of the protective
Skin a	and body protection		hing rotection according to the amount and f the dangerous substance at the work place.
Respi	ratory protection	: Use suitable bre requires.	uld conform to EN 14387

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form	:	liquid
Colour	:	gold
Odour	:	characteristic
Odour Threshold	:	No data available
Melting point/range	:	Not applicable
Boiling point/boiling range	:	> 100 °C
Flammability	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Flash point	:	> 100 °C
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
рН	:	substance/mixture is non-soluble (in water)
Viscosity, kinematic	:	No data available

according to Regulation (EC) No. 1907/2006



ROTOSTAR UV/LED 366 875 FLEXO INK

Version 5.0	Revision Date: 25.03.2024		S Number: 2000033795	Print Date: 10.04.2024 Date of first issue: 15.12.2020
	bility(ies)			
	er solubility	:	insoluble	
5010	bility in other solvents	•	No data available	÷
	tion coefficient: n- nol/water	:	No data available	9
Vapo	our pressure	:	No data available	9
m m	or Pressure for Compone onoalkylor monoaryl or onoalkylaryl esters of rylic acid		0.105 Pa (20 °C	;)
	ycerol, propoxylated,	:	0.0032 Pa (20 °	C)
	ters with acrylic acid			Test Guideline 104
et	opylidynetrimethanol, hoxylated, esters with rylic acid	:	0.0032 Pa (20 °	C)
2- pr	Propenoic acid, reaction oducts with entaerythritol	:	4.78 Pa (25 °C)	
an	nines, hydrogenated llow alkyl	:	< 1 hPa (20 °C)	
	tive density	:	No data available	9
Den	sity	:	1.4 g/cm3	
Rela	tive vapour density	:	No data available	9
	cle characteristics article Size Distribution	:	No data available	e
9.2 Other	information			

No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

No decomposition if stored and applied as directed.

10.2 Chemical stability

No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

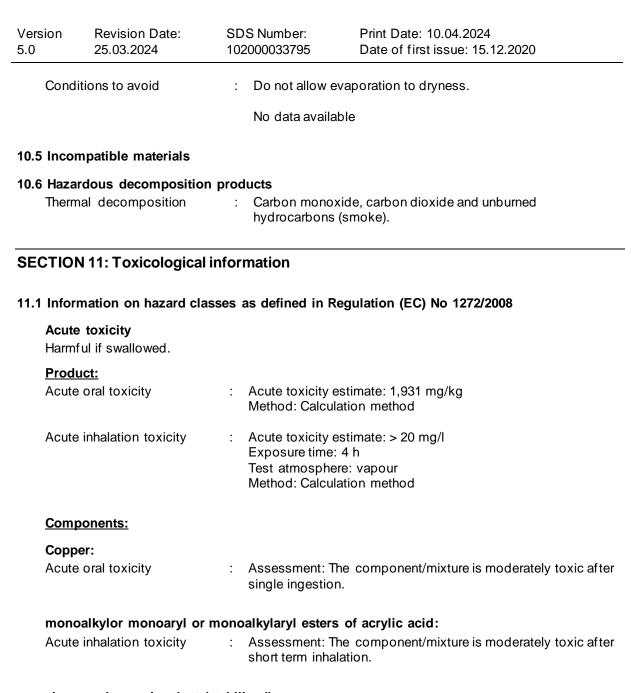
Hazardous reactions : Stable under recommended storage conditions.

No decomposition if stored and applied as directed.

10.4 Conditions to avoid

according to Regulation (EC) No. 1907/2006





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

amines, hydrogenated tallow alkyl:

Acute oral toxicity	:	LD50 (Rat): > 2,000 - 5,000 mg/kg
		Method: OECD Test Guideline 401

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Vers 5.0	sion	Revision Date: 25.03.2024		DS Number: 02000033795	Print Date: 10.04.2024 Date of first issue: 15.12.2020
		orrosion/irritation			
	<u>Produc</u> Remark		:	May cause skin ir	ritation and/or dermatitis.
	Compo	onents:			
	Coppe Remark		:	May cause skin ir	ritation in susceptible persons.
	monoa Result	ılkylor monoaryl or n	non :	oalkylaryl esters o Skin irritation	f acrylic acid:
	amines Result	s, hydrogenated tallo	w a :		
	Remark	<s< td=""><td>:</td><td>May cause skin ir</td><td>ritation in susceptible persons.</td></s<>	:	May cause skin ir	ritation in susceptible persons.
	Causes <u>Produc</u> Remark	KS			sible eye damage.
	Coppe Result	onents: r:	:	Eye irritation	
	monoa Result	ılkylor monoaryl or n	non :	oalkylaryl esters o Eye irritation	f acrylic acid:
	2-Prop Result	enoic acid, reaction	pro :	ducts with dipenta Eye irritation	erythritol:
	Glycer Result	ol, propoxylated, est	ers :		
	Propyl Result	idynetrimethanol, eth	ıoxy :	/lated, esters with Irritating to eyes.	acrylic acid:
	amines Result	s, hydrogenated tallo	w a :	Ikyl: Irreversible effect	ts on the eye

according to Regulation (EC) No. 1907/2006



ersion .0	Revision Date: 25.03.2024		S Number: 2000033795	Print Date: 10.04.2024 Date of first issue: 15.12.2020
Remarks		:	May cause irrev	versible eye damage.
Respi	iratory or skin sensit	tisation	ı	
	sensitisation cause an allergic skin	reactio	n.	
•	iratory sensitisation lassified based on ava	ailable i	information.	
<u>Produ</u> Rema		:	Causes sensitis	sation.
<u>Com</u> p	oonents:			
	alkylor monoaryl or	mono	•••	-
Resul	t	:	The product is	a skin sensitiser, sub-category 1A.
	penoic acid, reactior	n prod	-	-
Resul	t	:	The product is	a skin sensitiser, sub-category 1A.
Glyce	erol, propoxylated, e	sters v	•	
Resul	t	:	May cause sen	sitisation by skin contact.
Bisph	nenol A epoxy acryla	te:		
Resul	t	:	May cause sen	sitisation by skin contact.
Propy	ylidynetrimethanol, e	ethoxyl	ated, esters w	ith acrylic acid:
Resul	t	:	May cause sen	sitisation by skin contact.
Rema	ırks	:	Causes sensitis May cause sen contact.	sation. sitisation of susceptible persons by skin
	cell mutagenicity lassified based on ava	ailable i	information.	
	nogenicity lassified based on ava	ailable i	information.	
-	oductive toxicity lassified based on ava	ailable i	information.	
	- single exposure cause respiratory irrita	tion.		

according to Regulation (EC) No. 1907/2006



ROTOSTAR UV/LED 366 875 FLEXO INK

Version 5.0	Revision Date: 25.03.2024	SDS Number: 102000033795	Print Date: 10.04.2024 Date of first issue: 15.12.2020
<u>Com</u>	ponents:		
mono	oalkylor monoaryl or	monoalkylaryl est	ers of acrylic acid:
•	sure routes ssment		ce or mixture is classified as specific target organ gle exposure, category 3 with respiratory tract
STO	- repeated exposure		
Not c	lassified based on ava	ilable information.	
<u>Com</u>	ponents:		
amin	es, hydrogenated tall	ow alkyl:	
•	et Organs ssment	: The substan	pintestinal tract, Immune system ace or mixture is classified as specific target organ eated exposure, category 2.
-	ration toxicity lassified based on ava	ilable information.	
<u>Com</u>	ponents:		
. .			

amines, hydrogenated tallow alkyl: May be fatal if swallowed and enters airways.

11.2 Information on other hazards

Further information

Product:

Remarks

: No data available

Components:

Copper:

Remarks : No data available

zinc powder — zinc dust (stabilised): Remarks : No data available

SECTION 12: Ecological information

12.1 Toxicity

Components:

Copper:

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according to Regulation (EC) No. 1907/2006



Versic 5.0	on	Revision Date: 25.03.2024		9S Number: 2000033795	Print Date: 10.04.2024 Date of first issue: 15.12.2020		
a N	aquatic M-Facto	or (Short-term (acute) hazard) or (Long-term e) aquatic hazard)	:	10 10			
E	Ecotoxi	cology Assessment					
А	Acute a	quatic toxicity	:	: Very toxic to aquatic life.			
C	Chronic	aquatic toxicity	: Very toxic to aquatic life with long lasting effects.				
n	nonoal	kylor monoaryl or m	onc	alkylaryl esters of	f acrylic acid:		
		aquatic toxicity	:	Harmful to aquatic	; life with long lasting effects.		
2	2-Prope	enoic acid, reaction p	orod	lucts with dipenta	erythritol:		
		aquatic toxicity	:	Harmful to aquatic	life with long lasting effects.		
N a N	M-Facto aquatic M-Facto	wder — zinc dust (sta or (Short-term (acute) hazard) or (Long-term e) aquatic hazard)		ised): 1 1			
E	Ecotoxi	cology Assessment					
A	Acute a	quatic toxicity	:	Very toxic to aqua	tic life.		
C	Chronic	aquatic toxicity	:	Very toxic to aqua	tic life with long lasting effects.		
E	Bispher	nol A epoxy acrylate:					
E	Ecotoxi	cology Assessment					
А	Acute a	quatic toxicity	:	Toxic to aquatic lif	e.		
C	Chronic	aquatic toxicity	:	Toxic to aquatic lif	e with long lasting effects.		
N a N	M-Facto aquatic M-Facto	, hydrogenated tallov or (Short-term (acute) hazard) or (Long-term e) aquatic hazard)	v al : :	kyl: 10 10			
E	Ecotoxi	cology Assessment					
А	Acute a	quatic toxicity	:	Very toxic to aqua	tic life.		
C	Chronic	aquatic toxicity	:	Very toxic to aqua	tic life with long lasting effects.		

according to Regulation (EC) No. 1907/2006



5.0	Revision Date: 25.03.2024	SDS Number: 102000033795	Print Date: 10.04.2024 Date of first issue: 15.12.2020
	i stence and degrad a ata available	ability	
12.3 Bioa	ccumulative potenti	al	
<u>Com</u>	ponents:		
Partit	erol, propoxylated, o ion coefficient: n- ol/water	esters with acrylic aci : log Pow: 2.52 Method: OECI	
	lity in soil ata available		
I2.5 Resu	lts of PBT and vPv	B assessment	
Prod	uct:		
Asse	ssment	to be either pe	e/mixture contains no components considered ersistent, bioaccumulative and toxic (PBT), or t and very bioaccumulative (vPvB) at levels of r.
	ocrine disrupting pr		
No da 12.7 Othe	ata available r adverse effects		
No da I 2.7 Othe <u>Produ</u> Addit	ata available r adverse effects	: An environmer unprofessiona	ntal hazard cannot be excluded in the event of I handling or disposal. Iquatic life with long lasting effects.
No da 12.7 Othe Addit inforr	ata available r adverse effects uct: ional ecological	: An environmer unprofessiona	l handling or disposal.
No da 12.7 Othe Produ Addit inforr	ata available r adverse effects uct: ional ecological nation	: An environmer unprofessiona	l handling or disposal.
No da 12.7 Othe Addit inforr <u>Comp</u> Addit	ata available r adverse effects uct: ional ecological nation	 An environmer unprofessiona Very toxic to a An environmer unprofessiona 	I handling or disposal. Iquatic life with long lasting effects.
No da 2.7 Othe Addit inforr Comp Addit inforr	ata available r adverse effects <u>uct:</u> ional ecological nation ponents: ional ecological nation	 An environmer unprofessiona Very toxic to a An environmer unprofessiona 	I handling or disposal. Iquatic life with long lasting effects. Intal hazard cannot be excluded in the event of I handling or disposal. Iquatic life with long lasting effects.
No da 12.7 Othe Produ Addit inforr Copp Addit inforr Glyce Addit	ata available r adverse effects <u>uct:</u> ional ecological nation ponents: ional ecological nation	 An environmer unprofessiona Very toxic to a An environmer unprofessiona Very toxic to a 	I handling or disposal. Iquatic life with long lasting effects. Intal hazard cannot be excluded in the event of I handling or disposal. Iquatic life with long lasting effects.
No da 12.7 Othe Addit inforr Copp Addit inforr Glyce Addit inforr	ata available r adverse effects <u>uct:</u> ional ecological nation ponents: ional ecological nation erol, propoxylated, o ional ecological	 An environmer unprofessiona Very toxic to a An environmer unprofessiona Very toxic to a esters with acrylic aci No data availa 	I handling or disposal. Iquatic life with long lasting effects. Intal hazard cannot be excluded in the event of I handling or disposal. Iquatic life with long lasting effects.
No da 12.7 Othe Addit inforr Copp Addit inforr Glyce Addit inforr zinc Addit	ata available r adverse effects uct: ional ecological nation ponents: ional ecological nation erol, propoxylated, of ional ecological nation	 An environmer unprofessiona Very toxic to a An environmer unprofessiona Very toxic to a esters with acrylic aci No data availa (stabilised): An environmer unprofessiona 	equatic life with long lasting effects. Intal hazard cannot be excluded in the event of I handling or disposal. Equatic life with long lasting effects.
No da 12.7 Othe Addit inform Copp Addit inform Glyce Addit inform zinc Addit inform	ata available r adverse effects <u>uct:</u> ional ecological nation ponents: ional ecological nation erol, propoxylated, of ional ecological nation powder — zinc dust ional ecological	 An environmer unprofessiona Very toxic to a An environmer unprofessiona Very toxic to a esters with acrylic aci : No data availa (stabilised): An environmer unprofessiona Very toxic to a 	I handling or disposal. Iquatic life with long lasting effects. Intal hazard cannot be excluded in the event of I handling or disposal. Iquatic life with long lasting effects. Id: ble

according to Regulation (EC) No. 1907/2006



ROTOSTAR UV/LED 366 875 FLEXO INK

Version 5.0	Revision Date: 25.03.2024	SDS Number: 102000033795	Print Date: 10.04.2024 Date of first issue: 15.12.2020				
inforr	nation	unprofessional handling or disposal. Very toxic to aquatic life with long lasting effects.					
SECTIO	N 13: Disposal consi	derations					
Europ	bean Waste Catalogue	: 08 03 12 - wa	ste ink containing dangerous substances				
13.1 Wast	e treatment methods						
Prod	uct	courses or the Do not contai chemical or u	should not be allowed to enter drains, water e soil. minate ponds, waterways or ditches with sed container. ensed waste management company.				
Conta	aminated packaging	•	ning contents. s unused product. empty containers.				

SECTION 14: Transport information

14.1 UN number or ID number			
ADR	:	UN 3082	
IMDG	:	UN 3082	
ΙΑΤΑ	:	UN 3082	
14.2 UN proper shipping name			
ADR	:	ENVIRONMENTALLY N.O.S. (Copper metal powde	HAZARDOUS SUBSTANCE, LIQUID,
IMDG	:	ENVIRONMENTALLY N.O.S. (Copper metal powde	HAZARDOUS SUBSTANCE, LIQUID, er)
ΙΑΤΑ	:	Environmentally haza (Copper metal powde	rdous substance, liquid, n.o.s. er)
14.3 Transport hazard class(es)			
		Class	Subsidiary risks
ADR	:	9	
IMDG	:	9	
ΙΑΤΑ	:	9	
14.4 Packing group			

according to Regulation (EC) No. 1907/2006



ROTOSTAR UV/LED 366 875 FLEXO INK

Vers 5.0	sion	Revision Date: 25.03.2024		0S Number: 2000033795	Print Date: 10.04.2024 Date of first issue: 15.12.2020
	Hazard Labels	g group cation Code Identification Number restriction code	: : : : :	III M6 90 9 (-)	
	IMDG Packing Labels EmS C		:	III 9 F-A, S-F	
	aircraft	g instruction (cargo) g instruction (LQ)	:	964 Y964 III 9	
	Packing (passer	Passenger) g instruction nger aircraft) g instruction (LQ) g group	:	964 Y964 III 9	
14.5	Enviro	nmental hazards			
	ADR Enviror	mentally hazardous	:	yes	
	-	pollutant	:	yes	
14.6	Specia Remark	I precautions for use	r :	packagings conta	ings <=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

according to Regulation (EC) No. 1907/2006



ROTOSTAR UV/LED 366 875 FLEXO INK

Versior 5.0	Revision Date: 25.03.2024	SDS Number: 102000033795		ate: 10.04.2024 f first issue: 15.12.2020
the		n the manufacture, placing o certain dangerous substance nnex XVII)		Conditions of restriction for the following entries should be considered: Number on list 3 monoalkylor monoaryl or monoalkylaryl esters of acrylic acid (Number on list 3) 2-Propenoic acid, reaction products with dipentaerythritol (Number on list 3) Glycerol, propoxylated, esters with acrylic acid (Number on list 3) Bisphenol A epoxy acrylate (Number on list 3) Propylidynetrimethanol, ethoxylated, esters with acrylic acid (Number on list 3)
	K REACH Candidate I Incern (SVHC) for Au	list of substances of very hig thorisation	h :	Not applicable
Th Re	e Persistent Organic	Pollutants Regulations (reta 021 as amended for Great	ned :	Not applicable
Re	,	5/2009 on substances that	:	Not applicable
UK		stances subject to authorisat	on :	Not applicable
45 0 04				

15.2 Chemical safety assessment

No data available

SECTION 16: Other information

Full text of H-Statements

H302 :	Harmful if swallowed.	
H304 :	May be fatal if swallowed and enters airways.	
H315 :	Causes skin irritation.	
H317 :	May cause an allergic skin reaction.	
H318 :	Causes serious eye damage.	
H319 :	Causes serious eye irritation.	
H332 :	Harmful if inhaled.	
H335 :	May cause respiratory irritation.	
H373 :	May cause damage to organs through prolonged or repeated exposure.	
H400 :	Very toxic to aquatic life.	
H410 :	Very toxic to aquatic life with long lasting effects.	
H411 :	Toxic to aquatic life with long lasting effects.	
H412 :	Harmful to aquatic life with long lasting effects.	
Full text of other abbreviations		

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according to Regulation (EC) No. 1907/2006



ROTOSTAR UV/LED 366 875 FLEXO INK

Acute Tox.: Acute toxicityAquatic Acute: Short-term (acute) aquatic hazardAquatic Chronic: Long-term (chronic) aquatic hazardAsp. Tox: Aspiration bazard			DS Number: 02000033795	Print Date: 10.04.2024 Date of first issue: 15.12.2020
Aspiration nazadEye Dam.:Eye Irrit.:Skin Irrit.:Skin Sens.:STOT RE:STOT SE:GB EH40:UK. EH40 WEL - Workplace Exposure LimitsGB EH40 / TWA:CB EH40 / STEL:Short-term exposure limit (15-minute reference period)	Aquatic Acu Aquatic Chr Asp. Tox. Eye Dam. Eye Irrit. Skin Irrit. Skin Sens. STOT RE STOT SE GB EH40 GB EH40 /	ronic	Short-term (acute) Long-term (chronic Aspiration hazard Serious eye dama Eye irritation Skin irritation Skin sensitisation Specific target org Specific target org UK. EH40 WEL - V Long-term exposu	c) aquatic hazard age gan toxicity - repeated exposure gan toxicity - single exposure Workplace Exposure Limits ure limit (8-hour TWA 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; AllC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN -Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx -Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx -Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA -International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO -International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO -International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID -Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information		
Classification of the mixture	9:	Classification procedure:
Acute Tox. 4	H302	Calculation method

according to Regulation (EC) No. 1907/2006



ROTOSTAR UV/LED 366 875 FLEXO INK

Version 5.0	Revision Date: 25.03.2024	SDS Number: 102000033795	Print Date: 10.04.2024 Date of first issue: 15.12.2020
Skin Ir	rit. 2	H315	Calculation method
Eye Irrit. 2		H319	Calculation method
Skin Sens. 1		H317	Calculation method
STOT SE 3		H335	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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