according to Regulation (EC) No. 1907/2006



## **ROTOSTAR UV/LED 366 871 FLEXO INK**

Version	Revision Date:	SDS Number:	Print Date: 16.04.2024
4.0	10.10.2023	102000032432	Date of first issue: 07.01.2020

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

1.1 Product identifier	
Trade name	: ROTOSTAR UV/LED 366 871 FLEXO INK
Product code	: 025744U10

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

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

#### 1.3 Details of the supplier of the safety data sheet

Company	: ECKART GmbH Guentersthal 4 91235 Hartenstein
Telephone	: +499152770
Telefax	: +499152777008
E-mail address of person responsible for the SDS	: msds.eckart@altana.com

#### 1.4 Emergency telephone number

NCEC: +44 1235 239670 (Europe) Call and response in your language is possible. Contract no.: ECKART29003-NCEC.

#### **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

#### Classification (REGULATION (EC) No 1272/2008)

Skin irritation, Category 2 Eye irritation, Category 2 Skin sensitisation, Category 1 Specific target organ toxicity - single	H315: Causes skin irritation. H319: Causes serious eye irritation. H317: May cause an allergic skin reaction. H335: May cause respiratory irritation.
exposure, Category 3, Respiratory system	
Short-term (acute) aquatic hazard, Category 1	H400: Very toxic to aquatic life.
Long-term (chronic) aquatic hazard, Category 1	H410: Very toxic to aquatic life with long lasting effects.

according to Regulation (EC) No. 1907/2006



## ROTOSTAR UV/LED 366 871 FLEXO INK

Version 4.0	Revision Date: 10.10.2023		DS Number: 02000032432	Print Date: 16.04.2024 Date of first issue: 07.01.2020
2.2 Label	elements			
	<b>lling (REGULATION (I</b> rd pictograms	E <b>C)</b> :	No 1272/2008)	
Signa	al word	:	Warning	×
Hazaı	rd statements	:	H315 H317 H319 H335 H410	Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. May cause respiratory irritation. Very toxic to aquatic life with long lasting effects.
Preca	autionary statements	:	<b>Prevention:</b> P261 P264 P273 P280 <b>Response:</b> P304 + P340 + P	
			P391	air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell. Collect spillage.

#### Hazardous components which must be listed on the label:

monoalkylor monoaryl or monoalkylaryl esters of acrylic acid 2-Propenoic acid, reaction products with dipentaerythritol Glycerol, propoxylated, esters with acrylic acid

#### 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

CAS-No.	ClassificationREGUL	Concentration
EC-No.	ATION (EC) No	(% w/w)
Index-No.	1272/2008	
Registration number		
51728-26-8	Skin Irrit. 2; H315	>= 25 - < 50
	Eye Irrit. 2; H319	
	EC-No. Index-No. Registration number	EC-No.ATION (EC) NoIndex-No.1272/2008Registration number51728-26-8Skin Irrit. 2; H315

according to Regulation (EC) No. 1907/2006



			e of first issue: 07.01.2020	
bis(hy	xy]-, ether with 2,2- /droxymethyl)-1,3- anediol (4:1)	500-111-9 01-2119969962-19	Aquatic Chronic 2; H411	
Copp		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	>= 20 - <
	alkylor monoaryl or alkylaryl esters of acrylic	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 - <
	penoic acid, reaction icts with dipentaerythritol	1384855-91-7 01-2119980666-22	Eye Irrit. 2; H319 Skin Sens. 1A; H317 Aquatic Chronic 3; H412	>= 2.5 - <
(stabi	oowder — zinc dust lised)	7440-66-6 231-175-3 030-001-01-9 01-2119467174-37	Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 2.5 - <
	rol, propoxylated, esters crylic acid	52408-84-1 500-114-5	Eye Irrit. 2; H319 Skin Sens. 1; H317	>=1-<1
amine	es, hydrogenated tallow alkyl	61788-45-2 (90640-32-7) 262-976-6 612-284-00-9	Skin Irrit. 2; H315 Eye Dam. 1; H318 STOT RE 2; H373 (Liver, Gastrointestinal tract, Immune system) Asp. Tox. 1; H304 Aquatic Acute 1;	>= 0.0025 0.025

according to Regulation (EC) No. 1907/2006



## ROTOSTAR UV/LED 366 871 FLEXO INK

Version	Revision Date:	SDS Number:	Print Date: 16.04.2024	
4.0	10.10.2023	102000032432	Date of first issue: 07.01.2020	
			H400 Aquatic Chronic 1; H410 M-Factor (Acute 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. If inhaled 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 skin, rinse well with water. 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 Keep respiratory tract clear. : Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. 4.2 Most important symptoms and effects, both acute and delayed Risks : Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation.

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

May cause respiratory irritation.

according to Regulation (EC) No. 1907/2006



## **ROTOSTAR UV/LED 366 871 FLEXO INK**

Version	Revision Date:	SDS Number:	Print Date: 16.04.2024
4.0	10.10.2023	102000032432	Date of first issue: 07.01.2020

#### **SECTION 5: Firefighting measures**

#### 5.1 Extinguishing media Suitable extinguishing media : Special powder against metal fire Dry sand ABC powder Unsuitable extinguishing Water : media High volume water jet Carbon dioxide (CO2) 5.2 Special hazards arising from the substance or mixture Specific hazards during : Do not allow run-off from fire fighting to enter drains or water firefighting

courses.

#### 5.3 Advice for firefighters

Special protective equipment for firefighters	:	Wear self-contained breathing apparatus for firefighting if necessary.
Further information	:	Standard procedure for chemical fires.
		Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

#### **SECTION 6: Accidental release measures**

• • •	e equipment and emergency procedures Evacuate personnel to safe areas. Ensure adequate ventilation. Use personal protective equipment.
<b>6.2 Environmental precautions</b> 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.

according to Regulation (EC) No. 1907/2006



## ROTOSTAR UV/LED 366 871 FLEXO INK

Version 4.0	Revision Date: 10.10.2023	SDS Number: 102000032432	Print Date: 16.04.2024 Date of first issue: 07.01.2020
	<b>Is and material for co</b> ds for cleaning up		•
		Do not flush with Contain spillage, absorbent materia vermiculite) and p	fer to properly labelled containers. water. and then collect with non-combustible al, (e.g. sand, earth, diatomaceous earth, place in container for disposal according to gulations (see section 13).
		acid binder, unive	t absorbent material (e.g. sand, silica gel, ersal binder, sawdust). 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

Adv	vice 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.
	vice on protection against and explosion	:	Keep away from heat and sources of ignition. No smoking.
			Normal measures for preventive fire protection.
Hyg	giene 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 Con	ditions for safe storage, i	inclu	uding any incompatibilities
	quirements for storage as 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

according to Regulation (EC) No. 1907/2006



## **ROTOSTAR UV/LED 366 871 FLEXO INK**

Vers 4.0	ion	Revision Date: 10.10.2023		DS Number: 2000032432	Print Date: 16.04.2024 Date of first issue: 07.01.2020		
				installations / wor technological saf	king materials must comply with the ety standards.		
		information on e conditions	:	Protect from hum	idity 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		:	Keep in a dry, co	ol and well-ventilated place.		
		information on e stability	:	No decompositio	n if stored and applied as directed.		
7.3 S	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
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
	Workers	Dermal	Long-term systemic effects	0.5 mg/kg
Copper	Workers	Skin contact	Long-term systemic effects	137 mg/kg

according to Regulation (EC) No. 1907/2006



sion	Revision Date: 10.10.2023	SDS Nui 1020000		Date: 16.04.2024 of first issue: 07.01.2020	
		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/k
or mo	alkylor monoaryl noalkylaryl s of acrylic acid	Workers	Inhalation	Long-term systemic effects	5.88 mg/m
	·	Workers	Skin contact	Long-term systemic effects	0.83 mg/kg
		Consumers	Inhalation	Long-term systemic effects	1.45 mg/m3
		Consumers	Skin contact	Long-term systemic effects	0.42 mg/kg
		Consumers	Ingestion	Long-term systemic effects	0.42 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
	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
	rol, xylated, esters crylic acid	Workers	Inhalation	Long-term systemic effects	16.22 mg/n
		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
omino	s, hydrogenated	Workers	Inhalation	Long-term systemic	0.38 mg/m

according to Regulation (EC) No. 1907/2006



sion	Revision Date: 10.10.2023		5 Numl 000032		rint Date: 16.04.202 ate of first issue: 0		
	10.10.2023	102	000032	-432 D		7.01.2020	
tallow	alkyl	l		1	effects		1
lanow	aikyi	Workers		Inhalation	Long-term lo	ocal	1 mg/m3
		Tromolo		initialation	effects		1
		Workers		Inhalation	Acute local	effects	1 mg/m3
		Consume	rs	Inhalation	Long-term s	ystemic	0.035 mg/r
					effects		
		Consume	ſS	Oral	Long-term s effects	ystemic	0.04 mg/kg
Predi	cted No Effect Co	oncentratio	n (PN	EC) accordin	g to Regulation (I	EC) No. 1	907/2006:
Subst	ance name		Envir	onmental Cor	npartment	\ \	/alue
Poly(	oxy-1,2-ethanediyl	), .alpha	Soil		•	C	).0078 mg/kg
hydro	omega[(1-oxo-2	2-propen-					0.0
	xy]-, ether with 2,2						
	droxymethyl)-1,3-						
propa	nediol (4:1)						
				n water	4		0.00176 mg/l
				n water sedim	ent		).017 mg/kg ).000176 mg/l
				ne water ne sediment			).000176 mg/kg
			STP				l mg/l
Сорр	۵r			n water			).0078 mg/l
COPP				ne water			).0052 mg/l
			STP				).230 mg/l
				water sedim	ent		37 mg/kg
			Marir	ne sediment			676 mg/kg
			Soil				65 mg/kg
	alkylor monoaryl o alkylaryl esters of		Fresh	n water		C	).001 mg/l
			Marir	ne water		C	).001 mg/l
			STP				2.7 mg/l
			Fresh	n water sedim	ent		).031 mg/kg
			Marir	ne sediment		C	).003 mg/kg
			water	(intermittent	release)		).012 mg/l
	penoic acid, reacti icts with dipentaery			n water		C	).013 mg/l
			STP				0 mg/l
ļ				ne sediment			).28 mg/kg
				n water sedim	ent		2.8 mg/kg
				ne water			).0013 mg/l
			Soil	nittant			).22 mg/kg
	owdor zino duo	+		nittent water r	elease		).13 mg/l
stabi	owder — zinc dus lised)	, t	riesi	i walei			).0206 mg/l
				ne water		C	).0061 mg/l
			STP				).100 mg/l
				n water sedim	ent		235.6 mg/kg
				ne sediment			21 mg/kg
			Soil			3	85.6 mg/kg

according to Regulation (EC) No. 1907/2006



## ROTOSTAR UV/LED 366 871 FLEXO INK

		SDS Number: 102000032432	Print Date: 16.04.2024 Date of first issue: 07.0	Print Date: 16.04.2024 Date of first issue: 07.01.2020 0.0057 mg/l	
		s Fresh water			
		Marine water		0.0005 mg/l	
		Fresh water s	sediment	0.0169 mg/kg	
		Marine sedim	ient	0.0017 mg/kg	
		STP		10 mg/l	
		Soil		0.0011 mg/kg	
amine alkyl	es, hydrogenated tallow	Fresh water		0.00026 mg/l	
		Marine water		0.000026 mg/l	
		Sewage treat	ment plant	0.55 mg/kg	
		Fresh water s	sediment	3.76 mg/kg	
		Marine sedim	ent	376 mg/kg	
		Soil		10 mg/kg	
		Intermittent R	elease	0.0016 mg/l	

### 8.2 Exposure controls

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.
Choose body protection according to the amount and concentration of the dangerous substance at the work place. 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

Physical state : liquid

according to Regulation (EC) No. 1907/2006



Vers 4.0	ion	Revision Date: 10.10.2023		S Number: 000032432	Print Date: 16.04.2024 Date of first issue: 07.01.2020
	Colour		:	gold	
	Odour		:	characteristic	
	Odour 1	Threshold	:	No data available	•
	Melting	point/range	:	Not applicable	
	Boiling	point/boiling range	:	> 100 °C	
	Flamma	ability	:	No data available	
		explosion limit / Upper bility limit	:	No data available	
		explosion limit / Lower bility limit	:	No data available	
	Flash p	oint	:	> 100 °C	
	Auto-ig	nition temperature	:	Not relevant	
	Decom	position temperature	:	No data available	•
	рН		:	substance/mixtur	e is non-soluble (in water)
	Visc	osity, kinematic	:	No data available	•
		ty(ies) er solubility ibility in other solvents	:	insoluble No data available	
		n coefficient: n-	:	No data available	
	octanol, Vapour	pressure	:	No data available	
	Relative	e density	:	No data available	
	Density		:	1.4 g/cm3	
	Relative	e vapour density	:	No data available	•
	Parti	icle Size Distribution	:	No data available	)
9.2 (		formation a available			

according to Regulation (EC) No. 1907/2006



## ROTOSTAR UV/LED 366 871 FLEXO INK

Version 4.0	Revision Date: 10.10.2023		S Number: 2000032432	Print Date: 16.04.2024 Date of first issue: 07.01.2020
SECTIO	N 10: Stability and	reactiv	vity	
<b>10.1 Reac</b> No de	<b>tivity</b> ecomposition if stored	d and ap	oplied as direct	ed.
	nical stability ecomposition if stored	d and ap	oplied as direct	ed.
10.3 Poss	bility of hazardous	reactio	ns	
	rdous reactions	:		recommended storage conditions.
			No decompo	sition if stored and applied as directed.
	litions to avoid			
Cond	itions to avoid	:	Do not allow	evaporation to dryness.
			No data avail	able
10.5 Incoi	mpatible materials			
10.6 Haza	rdous decompositio	on prod	ucts	
	nal decomposition	:		oxide, carbon dioxide and unburned s (smoke).

### **SECTION 11: Toxicological information**

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

Acute toxicity Not classified based on availa	ble	information.
Product:		
Acute oral toxicity	:	Acute toxicity estimate: > 2,000 mg/kg Method: Calculation method
Acute inhalation toxicity	:	Acute toxicity estimate: > 20 mg/l Exposure time: 4 h Test atmosphere: vapour Method: Calculation method
Components:		
Copper:		
Acute oral toxicity	:	Assessment: The component/mixture is moderately toxic after single ingestion.

#### monoalkylor monoaryl or monoalkylaryl esters of acrylic acid:

according to Regulation (EC) No. 1907/2006



rsion )	Revision Date: 10.10.2023	SDS Number:Print Date: 16.04.2024102000032432Date of first issue: 07.01.2020	
Acute inhalation toxicity		: Assessment: The component/mixture is moderately toxic short term inhalation.	c afte
zinc p	oowder — zinc dust (	abilised):	
-	oral toxicity	: (Rat): > 2,000 mg/kg	
Acute	inhalation toxicity	: LC50 (Rat): 5.41 mg/l Exposure time: 4 h Test atmosphere: dust/mist	
amine	es, hydrogenated tall	w alkyl:	
Acute	oral toxicity	: LD50 (Rat): > 2,000 - 5,000 mg/kg Method: OECD Test Guideline 401	
-	corrosion/irritation es skin irritation.		
<u>Produ</u>	<u>uct:</u>		
Rema	rks	: May cause skin irritation and/or dermatitis.	
<u>Comp</u>	oonents:		
<b>Copp</b> Rema		: May cause skin irritation in susceptible persons.	
mono	alkvlor monoarvl or	nonoalkylaryl esters of acrylic acid:	
Resul		: Skin irritation	
amine	es, hydrogenated tall	w alkyl:	
Resul	t	: Skin irritation	
Rema	rks	: May cause skin irritation in susceptible persons.	
	<b>us eye damage/eye i</b> es serious eye irritatio		
<u>Produ</u> Rema		: Eye irritation	
<u>Comp</u>	oonents:		
<b>Copp</b> Resul		: Eye irritation	
<b>mono</b> Resul <sup>1</sup>		nonoalkylaryl esters of acrylic acid: : Eye irritation	

according to Regulation (EC) No. 1907/2006



rsion	Revision Date: 10.10.2023	SDS Number: 102000032432	Print Date: 16.04.2024 Date of first issue: 07.01.2020				
	-	n products with dipe	ntaerythritol:				
Resul	t	: Eye irritation					
Glyce	erol, propoxylated, e	sters with acrylic aci	d:				
Resul	t	: Eye irritation					
amine	es, hydrogenated tal	low alkyl:					
Resul		-	ects on the eye				
Rema	ırks	: May cause irre	versible eye damage.				
Respi	iratory or skin sensi	tisation					
Skin	sensitisation						
May c	cause an allergic skin	reaction.					
-	iratory sensitisation lassified based on ava	ailable information.					
<u>Produ</u>	uct:						
Rema	ırks		: Causes sensitisation. May cause sensitisation of susceptible persons by skin contact.				
<u>Comp</u>	oonents:						
mono	oalkylor monoaryl or	monoalkylaryl esters	s of acrylic acid:				
Resul	t	: The product is	a skin sensitiser, sub-category 1A.				
2-Pro	penoic acid reaction	n products with dipe	ntaerythritol				
Resul	-	• •	a skin sensitiser, sub-category 1A.				
Glyce	erol, propoxylated, e	sters with acrylic aci	d:				
Resul		•	nsitisation by skin contact.				
	<b>cell mutagenicity</b> lassified based on ava	ailable information.					
	<b>nogenicity</b> lassified based on ava	ailable information.					
-	oductive toxicity lassified based on ava	ailable information.					
	- single exposure						
	cause respiratory irrita	tion.					

according to Regulation (EC) No. 1907/2006



## **ROTOSTAR UV/LED 366 871 FLEXO INK**

Version 4.0	Revision Date: 10.10.2023		Number: 00032432	Print Date: 16.04.2024 Date of first issue: 07.01.2020
4.0	10.10.2023	1020	JUU32432	
Com	ponents:			
mone	oalkylor monoaryl or	monoal	kylaryl ester	s of acrylic acid:
•	sure routes ssment	: T to		e or mixture is classified as specific target organ e exposure, category 3 with respiratory tract
	<b>F - repeated exposure</b> lassified based on ava		ormation.	
Com	ponents:			
amin	es, hydrogenated tal	low alky	1:	
-	et Organs ssment	: Т	he substance	testinal tract, Immune system e or mixture is classified as specific target organ ated exposure, category 2.

Aspiration toxicity

Not classified based on available information.

#### **Components:**

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:

A member of **C** ALTANA

according to Regulation (EC) No. 1907/2006



/ersion I.0	Revision Date: 10.10.2023		0S Number: 2000032432	Print Date: 16.04.2024 Date of first issue: 07.01.2020
	ctor (Short-term (acute)	:	10	
M-Fa	tic hazard) ctor (Long-term nic) aquatic hazard)	:	10	
	oxicology Assessment e aquatic toxicity	:	Very toxic to aq	uatic life.
Chro	nic aquatic toxicity	:	Very toxic to aq	uatic life with long lasting effects.
mon	oalkylor monoaryl or m	ond	oalkylaryl esters	of acrylic acid:
	oxicology Assessment nic aquatic toxicity	:	Harmful to aqua	tic life with long lasting effects.
2-Pro	openoic acid, reaction p	oroc	lucts with dipen	taerythritol:
	oxicology Assessment nic aquatic toxicity	:	Harmful to aqua	tic life with long lasting effects.
zinc	powder — zinc dust (st	abil	ised):	
	oxicology Assessment			
Acute	e aquatic toxicity	:	Very toxic to aq	uatic life.
Chro	nic aquatic toxicity	:	Very toxic to aq	uatic life with long lasting effects.
amin	es, hydrogenated tallov	<i>n</i> a	kyl:	
	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 aq	uatic life.
Chro	nic aquatic toxicity	:	Very toxic to aq	uatic life with long lasting effects.
	<b>istence and degradabil</b> i ata available	ity		
2.3 Bioa	ccumulative potential			
<u>Com</u>	ponents:			
Glyc	erol, propoxylated, este	ers	with acrylic acid	:
	tion coefficient: n- nol/water	:		23 °C) Test Guideline 107

according to Regulation (EC) No. 1907/2006



## ROTOSTAR UV/LED 366 871 FLEXO INK

Version 4.0	Revision Date: 10.10.2023	SDS Number: 102000032432	Print Date: 16.04.2024 Date of first issue: 07.01.2020
	l <b>ity in soil</b> Ita available		
2.5 Resu	Its of PBT and vPvE	3 assessment	
<u>Produ</u> Asses	<u>ict:</u> ssment	to be either p	ce/mixture contains no components considered ersistent, bioaccumulative and toxic (PBT), or nt and very bioaccumulative (vPvB) at levels of er.
	crine disrupting pro	operties	
2.7 Other	adverse effects		
<u>Produ</u> Additi inform	onal ecological	unprofessior	ental hazard cannot be excluded in the event of al handling or disposal. aquatic life with long lasting effects.
<u>Comp</u>	onents:		
<b>Copp</b> Additi inform	onal ecological	unprofessior	ental hazard cannot be excluded in the event of al handling or disposal. aquatic life with long lasting effects.
•	oowder — zinc dust	. ,	
Additi inform	onal ecological nation	unprofession	ental hazard cannot be excluded in the event of al handling or disposal. aquatic life with long lasting effects.
Glyce	rol, propoxylated, e	esters with acrylic a	cid:
Additi inform	onal ecological nation	: No data avail	able
amine	es, hydrogenated ta	llow alkyl:	
Additi inform	onal ecological nation	unprofession	ental hazard cannot be excluded in the event of al handling or disposal. aquatic life with long lasting effects.

#### **SECTION 13: Disposal considerations**

European Waste Catalogue : 08 03 12 - waste ink containing dangerous substances

#### 13.1 Waste treatment methods

according to Regulation (EC) No. 1907/2006



## ROTOSTAR UV/LED 366 871 FLEXO INK

Version 4.0	Revision Date: 10.10.2023	SDS Number: 102000032432	Print Date: 16.04.2024 Date of first issue: 07.01.2020	
Product		<ul> <li>The product should not be allowed to enter drains, water courses or the soil.</li> <li>Do not contaminate ponds, waterways or ditches with chemical or used container.</li> <li>Send to a licensed waste management company.</li> <li>In accordance with local and national regulations.</li> </ul>		
Contaminated packaging		<ul> <li>Empty remaining contents.</li> <li>Dispose of as unused product.</li> <li>Do not re-use empty containers.</li> <li>In accordance with local and national regulations.</li> </ul>		

### **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,
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			
ADR Packing group Classification Code Hazard Identification Number Labels Tunnel restriction code IMDG Packing group		III M6 90 9 (-) III	

according to Regulation (EC) No. 1907/2006



## **ROTOSTAR UV/LED 366 871 FLEXO INK**

Versio 4.0	n Revision Date: 10.10.2023		OS Number: 2000032432	Print Date: 16.04.2024 Date of first issue: 07.01.2020
Labels EmS Code		:	9 F-A, S-F	
IATA (Cargo) Packing instruction (cargo aircraft) Packing instruction (LQ) Packing group Labels		: : : :	964 Y964 III 9	
Pa (p Pa Pa	IATA (Passenger) Packing instruction (passenger aircraft) Packing instruction (LQ) Packing group Labels		964 Y964 III 9	
14.5 E	nvironmental hazards			
	<b>DR</b> nvironmentally hazardous	:	yes	
	<b>IDG</b> arine pollutant	:	yes	
14.6 S	pecial precautions for use	er		
Re	emarks	:	packagings conta	jings <=5L / 5 kg, or combination ining inner packagings <= 5L / 5 kg net per SV375 ADR, 2.10.2.7 IMDG-Code, A197 be applied.
т	a transport alassification(s	) n rc	wided berein are fr	vrinformational purposes only, and sololy

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 monoalkylor monoaryl or monoalkylaryl esters of acrylic acid (Number on list 3) 2-Propenoic acid, reaction products
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according to Regulation (EC) No. 1907/2006



## **ROTOSTAR UV/LED 366 871 FLEXO INK**

Version 4.0	Revision Date: 10.10.2023	SDS Number: 102000032432		ate: 16.04.2024 f first issue: 07.01.2020
				with dipentaerythritol (Number on list 3) Glycerol, propoxylated, esters with acrylic acid (Number on list 3)
deplet	e the ozone layer ACH List of substand	009 on substances that ces subject to authorisation	: on :	Not applicable Not applicable

#### 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 abbreviation	ns	
Full text of other abbreviation Acute Tox.	ns :	Acute toxicity
	ns : :	Acute toxicity Short-term (acute) aquatic hazard
Acute Tox.	ns : :	
Acute Tox. Aquatic Acute	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 Asp. Tox.	ns : : : :	Short-term (acute) aquatic hazard Long-term (chronic) aquatic hazard Aspiration hazard
Acute Tox. Aquatic Acute Aquatic Chronic Asp. Tox. Eye Dam.	ns : : : :	Short-term (acute) aquatic hazard Long-term (chronic) aquatic hazard Aspiration hazard Serious eye damage
Acute Tox. Aquatic Acute Aquatic Chronic Asp. Tox. Eye Dam. Eye Irrit.	ns : : : : :	Short-term (acute) aquatic hazard Long-term (chronic) aquatic hazard Aspiration hazard Serious eye damage Eye irritation
Acute Tox. Aquatic Acute Aquatic Chronic Asp. Tox. Eye Dam. Eye Irrit. Skin Irrit.	ns : : : : :	Short-term (acute) aquatic hazard Long-term (chronic) aquatic hazard Aspiration hazard Serious eye damage Eye irritation Skin irritation
Acute Tox. Aquatic Acute Aquatic Chronic Asp. Tox. Eye Dam. Eye Irrit. Skin Irrit. Skin Sens.	ns 	Short-term (acute) aquatic hazard Long-term (chronic) aquatic hazard Aspiration hazard Serious eye damage Eye irritation Skin irritation Skin sensitisation Specific target organ toxicity - repeated exposure Specific target organ toxicity - single exposure
Acute Tox. Aquatic Acute Aquatic Chronic Asp. Tox. Eye Dam. Eye Irrit. Skin Irrit. Skin Sens. STOT RE	ns 	Short-term (acute) aquatic hazard Long-term (chronic) aquatic hazard Aspiration hazard Serious eye damage Eye irritation Skin irritation Skin sensitisation Specific target organ toxicity - repeated exposure
Acute Tox. Aquatic Acute Aquatic Chronic Asp. Tox. Eye Dam. Eye Irrit. Skin Irrit. Skin Sens. STOT RE STOT SE	ns : : : : : : : : : : : : : : : : : : :	Short-term (acute) aquatic hazard Long-term (chronic) aquatic hazard Aspiration hazard Serious eye damage Eye irritation Skin irritation Skin sensitisation Specific target organ toxicity - repeated exposure Specific target organ toxicity - single exposure

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;



## ROTOSTAR UV/LED 366 871 FLEXO INK

Version	Revision Date:	SDS Number:	Print Date: 16.04.2024
4.0	10.10.2023	102000032432	Date of first issue: 07.01.2020

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:		Classification procedure:
Skin Irrit. 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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