according to Regulation (EC) No. 1907/2006



## **ROTOSTAR UV 166 877 FLEXO INK**

Version	Revision Date:	SDS Number:	Print Date: 16.04.2024
9.0	30.01.2024	102000028180	Date of first issue: 04.09.2017

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

1.1 Product identifier		
Trade name	:	ROTOSTAR UV 166 877 FLEXO INK
Product code	:	023411U20

#### 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 Category 2

H319: Causes serious eye irritation. Eye initiation, Category 2H319: Causes serious eye irritation.Skin sensitisation, Category 1H317: May cause an allergic skin reaction.Reproductive toxicity, Category 2H361d: Suspected of damaging the unborn child.Long-term (chronic) aquatic hazard,H411: Toxic to aquatic life with long lasting effects.

#### 2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

according to Regulation (EC) No. 1907/2006



## **ROTOSTAR UV 166 877 FLEXO INK**

Version 9.0	Revision Date: 30.01.2024	-	DS Number: 02000028180	Print Date: 16.04.2024 Date of first issue: 04.09.2017
Hazard	pictograms	:		
Signal	word	:	Warning	<b>v v</b>
Hazard	statements	:	H317 H319 H361d H411	May cause an allergic skin reaction. Causes serious eye irritation. Suspected of damaging the unborn child. Toxic to aquatic life with long lasting effects.
Precau	tionary statements	:	<b>Prevention:</b> P201 P261 P273 P280	Obtain special instructions before use. Avoid breathing mist or vapours. Avoid release to the environment. Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.
			<b>Response:</b> P308 + P313	IF exposed or concerned: Get medical
			P391	advice/ attention. 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 ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate 1-isopropyl-2,2-dimethyltrimethylene diisobutyrate 2-Propenoic acid, ester with C12-16-alkyl glycidyl ether Glycerol, propoxylated, esters with acrylic acid Propylidynetrimethanol, ethoxylated, 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 Chemical name CAS-No

Chemical name	CAS-No. EC-No. Index-No. Registration number	ClassificationREGUL ATION (EC) No 1272/2008	Concentration (% w/w)
Poly(oxy-1,2-ethanediyl), .alpha hydroomega[(1-oxo-2- propenyl)oxy]-, ether with 2-ethyl-	28961-43-5 500-066-5	Eye Irrit. 2; H319 Skin Sens. 1; H317 Aquatic Chronic 3;	>= 50 - <= 100

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according to Regulation (EC) No. 1907/2006



## **ROTOSTAR UV 166 877 FLEXO INK**

ersion .0			rint Date: 16.04.2024 ate of first issue: 04.09.2017	,
propa	droxymethyl)-1,3- anediol (3:1)	01-2119489900-30	H412	
Bisph	enol A epoxy acrylate	55818-57-0 500-130-2	Skin Sens. 1; H317 Aquatic Chronic 2; H411	>= 10 - < 20
		01-2119490020-53		12 22
	phenyl(2,4,6- hylbenzoyl)phosphinate	84434-11-7 282-810-6	Skin Sens. 1; H317 Aquatic Chronic 2; H411	>= 10 - < 20
		01-2119987994-10		
alumi	nium powder (stabilised)	7429-90-5 231-072-3 013-002-00-1	Flam. Sol. 1; H228	>= 1 - < 10
		01-2119529243-45		
	oropyl-2,2- hyltrimethylene diisobutyrat	6846-50-0	Repr. 2; H361d Aquatic Chronic 3; H412	>= 3 - < 10
		01-2119451093-47	11712	
	penoic acid, ester with C12- xyl glycidyl ether		Skin Sens. 1A; H317	>= 1 - < 10
	erol, propoxylated, esters	52408-84-1	Eye Irrit. 2; H319	>= 1 - < 10
with a	crylic acid	500-114-5	Skin Sens. 1; H317	
		01-2119487948-12		
	/lidynetrimethanol, ylated, esters with acrylic	28961-43-5 500-066-5	Eye Irrit. 2; H319 Skin Sens. 1; H317	>= 0.1 - < 1
0.0.4		01-2119489900-30		0.05 1
∠,6-di	-tert-butyl-p-cresol	128-37-0 204-881-4	Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 0.25 - < 1
			M-Factor (Acute aquatic toxicity): 1 M-Factor (Chronic aquatic toxicity): 1	

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.

according to Regulation (EC) No. 1907/2006



## ROTOSTAR UV 166 877 FLEXO INK

Version 9.0	Revision Date: 30.01.2024	SDS Number: 102000028180	Print Date: 16.04.2024 Date of first issue: 04.09.2017
		Do not leave the	victim unattended.
lf inhal	led	advice.	n air. place in recovery position and seek medical rsist, call a physician.
In case of skin contact		: Wash off immed	liately with soap and plenty of water.
In case of eye contact		: Immediately flue	sheye(s) with plenty of water.
		Remove contact Keep eye wide o	sh eye(s) with plenty of water. t lenses. open while rinsing. ersists, consult a specialist.
lf swal	lowed	Never give anyth If symptoms per	<ul> <li>r tract clear.</li> <li>or alcoholic beverages.</li> <li>ning by mouth to an unconscious person.</li> <li>sist, call a physician.</li> <li>ediately to hospital.</li> </ul>

### 4.2 Most important symptoms and effects, both acute and delayed

Risks	: May cause an allergic skin reaction.
	Causes serious eye irritation.
	Suspected of damaging the unborn child.

### **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	:	Dry sand ABC powder Foam
Unsuitable extinguishing 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	:	Wear self-contained breathing apparatus for firefighting if
forfirefighters		necessary.

according to Regulation (EC) No. 1907/2006

## ROTOSTAR UV 166 877 FLEXO INK



Version 9.0	Revision Date: 30.01.2024	SDS Number: 102000028180	Print Date: 16.04.2024 Date of first issue: 04.09.2017
Furthe	er information	must not be dis Fire residues a be disposed of Use extinguishi	inated fire extinguishing water separately. This scharged into drains. nd contaminated fire extinguishing water must in accordance with local regulations. ing measures that are appropriate to local and the surrounding environment.
SECTION	N 6: Accidental rele	ease measures	
	nal precautions, prot anal precautions	: Evacuate perso	<b>d emergency procedures</b> onnel to safe areas. rotective equipment.
6.2 Enviro	onmental precautions	5	

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 containment and cleaning up

Methods for cleaning up	: Use mechanical handling equipment. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
	Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). 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	<ul> <li>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</li> </ul>
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according to Regulation (EC) No. 1907/2006

## **ROTOSTAR UV 166 877 FLEXO INK**



Version 9.0	Revision Date: 30.01.2024	SDS N 102000	umber: 028180	Print Date: 16.04.2024 Date of first issue: 04.09.2017	
	vice on protection against and explosion	use	ed.	ny process in which this mixture is being for preventive fire protection.	
Hy	giene measures			t eat or drink. When using do not smoke. re breaks and at the end of workday.	
7.2 Cor	ditions for safe storage,	includir	ng any incomp	patibilities	
	quirements for storage as and containers	wit me exp con aw	n water liberate asures to preve plosion-proof e ntainers tightly	ners and apparatuses is essential. Reaction es extremely flammable gas (hydrogen) Take ent the build up of electrostatic charge. Use quipment. Store in original container. Keep closed in a cool, well-ventilated place. Keep es of ignition - No smoking. Keep container in use.	
		pla res pre	ce. Containers ealed and kept cautions. Elect	htly closed in a dry and well-ventilated which are opened must be carefully upright to prevent leakage. Observe label rical installations / working materials must echnological safety standards.	
	rther information on prage conditions	: Pro	otect from humi	dity and water.	
Ad	vice on common storage	Do Ne sto Ke	<ul> <li>Do not store near acids.</li> <li>Do not store together with oxidizing and self-igniting product Never allow product to get in contact with water during storage.</li> <li>Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions</li> </ul>		
	rther information on prage stability	: No	: No decomposition if stored and applied as directed.		
7.3 Spe	cific 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
aluminium powder (stabilised)	7429-90-5	TWA (Inhalable)	10 mg/m3	GB EH40
		TWA (Respirable fraction)	4 mg/m3	GB EH40
		TWA (inhalable dust)	10 mg/m3	GB EH40

according to Regulation (EC) No. 1907/2006



ersion )	Revision Date: 30.01.2024	SDS Nu 1020000		rint Date: 16.04.2024 ate of first issue: 04.0	09.2017
	inhala when MDHS respir subst conce inhala any d levels must partic partic respo distin and 'r mater availa to the defini conta shoul	ble dust are sampling is S14/4 Gene able, thorac ance hazaro entration in a ble dust or ust will be s . Some dus comply with les of a wid ular particle nse that it e guishes two espirable'., ial that ente ble for dep fraction that tions and ex in compone d be compl	e those fractions s undertaken in a ral methods for cic and inhalable dous to health in- air equal to or gro- 4 mg.m-3 8-hou subject to COSHI- to have been as the appropriate e range of sizes. a fter entry into the elicits, depend or o size fractions for inhalable dust a ers the nose and osition in the resp at penetrates to t collanatory materia ents that have the ied with., Where	sampling and graving aerosols., The COSH cludes dust of any kir eater than 10 mg.m-3 r TWA of respirable of H if people are exposisioned specific WELs limits., Most industria The behaviour, depoint the nature and size or limit-setting purposi- por communication of the fra- mouth during breathing biratory tract. Respira- he gas exchange reg- fal are given in MDHS eir own assigned WEL no specific short-term	ch will be collected nethods described in etric analysis or HH definition of a nd when present at a 8 8-hour TWA of dust. This means that sed to dust above thes a nd exposure to thes a dusts contain osition and fate of any y system, and the bod of the particle. HSE ses termed 'inhalable' action of airborne ng and is therefore able dust approximate ion of the lung. Fuller S14/4., Where dusts L, all the relevant limit n exposure limit is lister
	a figu	٦V	es the long-term NA (Respirable ust)	exposure limit should 4 mg/m3	d be used. GB EH40
	inhala when MDHS respir subst conce inhala any d levels must partic partic respo distin and 'r mater availa to the defini conta shoul	ble dust are sampling is S14/4 Gene able, thorac ance hazaro entration in a ble dust or ust will be s . Some dus comply with les of a wid ular particle nse that it e guishes two espirable'., ial that ente ble for dep fraction that tions and ex in compone d be compl	e those fractions s undertaken in a ral methods for cic and inhalable dous to health in- air equal to or gro- 4 mg.m-3 8-hou subject to COSHI to the appropriate e range of sizes. a fter entry into to blicits, depend or o size fractions for inhalable dust a ers the nose and osition in the resp at penetrates to t collanatory materi- ents that have the ied with., Where	eater than 10 mg.m-3 r TWA of respirable of H if people are exposi- signed specific WELs limits., Most industria The behaviour, depo- the human respiratory the nature and size or limit-setting purpos pproximates to the fra- mouth during breathin biratory tract. Respira- he gas exchange reg- ial are given in MDHS eir own assigned WEI	ch will be collected nethods described in etric analysis or HH definition of a nd when present at a 8 8-hour TWA of dust. This means that sed to dust above thes and exposure to thes and exposure to thes and exposure to thes and exposure to the sand exposure to the ad dusts contain osition and fate of any y system, and the bod of the particle. HSE ses termed 'inhalable' action of airborne ng and is therefore able dust approximate ion of the lung. Fuller S14/4., Where dusts L, all the relevant limit n exposure limit is lister
	· · · · · ·		NA	10 mg/m3	GB EH40

according to Regulation (EC) No. 1907/2006



## **ROTOSTAR UV 166 877 FLEXO INK**

Version	Revision Date:	SDS Number:	Print Date: 16.04.2024
9.0	30.01.2024	102000028180	Date of first issue: 04.09.2017

#### Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health effects	Value
Propylidynetrimethan ol, ethoxylated, esters with acrylic acid	Workers	Inhalation	Long-term systemic effects	16.2 mg/m3
	Workers	Skin contact	Long-term systemic effects	0.8 mg/kg
	Consumers	Inhalation	Long-term systemic effects	4.9 mg/m3
	Consumers	Skin contact	Long-term systemic effects	0.48 mg/kg
	Consumers	Oral	Long-term systemic effects	1.39 mg/kg
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 effects	0.17 mg/kg
ethyl phenyl(2,4,6- trimethylbenzoyl)phos phinate	Workers	Skin contact	Long-term systemic effects	1.7 mg/kg
	Workers	Inhalation	Long-term systemic effects	5.88 mg/m3
aluminium powder (stabilised)	Workers	Inhalation	Long-term systemic effects	3.72 mg/m3
	Workers	Inhalation	Long-term local effects	3.72 mg/m3
	Consumers	Oral	Long-term systemic effects	3.95 mg/kg
1-isopropyl-2,2- dimethyltrimethylene diisobutyrate	Workers	Skin contact	Long-term systemic effects	5.00 mg/kg
	Workers	Inhalation	Long-term systemic effects	17.62 mg/m3
	Consumers	Ingestion	Long-term systemic effects	5.00 mg/kg
	Consumers	Skin contact	Long-term systemic effects	5.00 mg/kg
	Consumers	Inhalation	Long-term systemic effects	4.35 mg/m3
Glycerol, propoxylated, esters with acrylic acid	Workers	Inhalation	Long-term systemic effects	16.22 mg/m3
	Workers	Dermal	Long-term systemic	1.92 mg/kg

according to Regulation (EC) No. 1907/2006



sion	Revision Date 30.01.2024		S Numl 000028		nt Date: 16.04.2024 e of first issue: 04.09.2	017		
		I		1	effects		ĺ	
		Consume	rs	Inhalation	Long-term system	ic	4.87 mg/m	
		Consume	rs	Dermal	Long-term system	ic	1.15 mg/kg	
		Consume	rs	Oral	Long-term system effects	ic	1.39 mg/k	
2,6-di creso	-tert-butyl-p-	Workers		Inhalation	Long-term system effects	ic	0.78 mg/m	
		Workers		Dermal	Long-term system effects	ic	0.5 mg/kg	
		Consume	rs	Inhalation	Long-term system effects		0.435 mg/r	
		Consume	rs	Dermal	Long-term system effects		0.25 mg/kg	
		Consume	rs	Oral	Long-term system effects	ic	0.25 mg/kg	
Predi	cted No Effect C	concentratio	on (PN	IEC) according	to Regulation (EC) No	o. 19	07/2006:	
Subst	ance name		Envir	onmental Comp	artment	V	alue	
	lidynetrimethano ylated, esters with		Soil				.00644 mg/k	
			Frest	n water		0.	.00195 mg/l	
				n water sedimen	t		.038 mg/kg	
			STP				0 mg/l	
				ne water			.000195 mg/	
				ne sediment			.0038 mg/kg	
				nittent Release			.00195 mg/l	
				nittent water rele	ease		.0195 mg/l	
Bisph	enol A epoxy acr	vlate		n water	6460		0.025 mg/l	
Diopi		yiaco	Marine water				0.003 mg/l	
				nittent Release			mg/l	
				n water sedimen	t		.96 mg/kg	
			Marine sediment				.896 mg/kg	
			STP				0 mg/l	
			Soil				.78 mg/kg	
alumir	nium powder (sta	bilised)	Fresh water			0.0749 mg/l		
S. S. M				ication plant			0 mg/l	
1-ison	propyl-2,2-			n water			.014 mg/l	
dimet	hyltrimethylene outyrate						le i i i i g, i	
			Marir	ne water		0	.0014 mg/l	
				n water sedimen	t		.29 mg/kg	
			Soil				.05 mg/kg	
			STP				mg/l	
				ne sediment			.529 mg/kg	
				secondary pois	onina)		3.3 mg/kg	
Glyce	rol, propoxylated	esters		n water	-·····9/		.0057 mg/l	
	crylic acid	,						

according to Regulation (EC) No. 1907/2006



## **ROTOSTAR UV 166 877 FLEXO INK**

Version	Revision Date:	SDS Number:	Print Date: 16.04.2024
9.0	30.01.2024	102000028180	Date of first issue: 04.09.2017

	Marine water	0.00057 mg/l
	Fresh water sediment	0.0168 mg/kg
	Marine sediment	0.00168 mg/kg
	STP	10 mg/l
	Soil	0.0011 mg/kg
2,6-di-tert-butyl-p-cresol	Fresh water	0.199 µg/l
	Marine water	0.02 μg/l
	STP	0.017 mg/l
	Fresh water sediment	0.0996 mg/kg
	Marine sediment	0.00996 mg/kg
	Soil	0.054 mg/kg
	Secondary Poisoning	8.33 mg/kg
	oral (secondary poisoning)	16.67 mg/kg

#### 8.2 Exposure controls

Personal protective equipment	
Eye/face protection :	Goggles 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
Respiratory protection :	concentration of the dangerous substance at the work place. Use suitable breathing protection if workplace concentration requires.

### **SECTION 9: Physical and chemical properties**

### 9.1 Information on basic physical and chemical properties

Form : liquid

according to Regulation (EC) No. 1907/2006



Ver 9.0	sion	Revision Date: 30.01.2024		S Number: 000028180	Print Date: 16.04.2024 Date of first issue: 04.09.2017
	Colour		:	silver	
	Odour		:	characteristic	
	Odour	Threshold	:	No data available	9
	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	:	No data available	)
	Decom	position temperature	:	No data available	)
	рН		:	substance/mixtur	re is non-soluble (in water)
	Viscos	ity, kinematic	:	No data available	)
		ity(ies) solubility ity in other solvents	:	insoluble No data available	9
		n coefficient: n-	:	No data available	)
	octano Vapour	r pressure	:	No data available	)
	Prop	Pressure for Component ylidynetrimethanol, kylated, esters with ic acid	nts: :	0.0032 Pa (20 °	C)
	1-iso dime	propyl-2,2- thyltrimethylene butyrate	:	1.5 Pa (25 °C)	
	Glyc	erol, propoxylated, s with acrylic acid	:	0.0032 Pa (20 ° Method: OECD	C) Test Guideline 104
	Relative	e density	:	No data available	)
	Density	1	:	1.1 g/cm3	

according to Regulation (EC) No. 1907/2006

## ROTOSTAR UV 166 877 FLEXO INK



Version 9.0	Revision Date: 30.01.2024	SDS Number: 102000028180	Print Date: 16.04.2024 Date of first issue: 04.09.2017			
Relat	ive vapour density	: No data avail	able			
	cle characteristics article Size Distribution	: No data avail	able			
9.2 Other information						
No d	ata available					
SECTIO	N 10: Stability and re	activity				
<b>10.1 Reac</b> No d	<b>ctivity</b> ecomposition if stored a	nd applied as direct	ed.			
	<b>nical stability</b> ecomposition if stored a	nd applied as direct	ed.			
10.3 Poss	sibility of hazardous re	actions				
Haza	rdous reactions	: Contact with	acids and alkalis may release hydrogen.			
		No decompo	sition if stored and applied as directed.			
10.4 Con	ditions to avoid					
Cond	litions to avoid	: Do not allow	evaporation to dryness.			
		No data avail	able			
10.5 Inco	mpatible materials					
Mate	rials to avoid	: Acids Bases Oxidizing age	ents			
	ardous decomposition	products				
This infor	mation is not available.					

**SECTION 11: Toxicological information** 

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

Acute toxicity Not classified based on available information.

Components:

ethyl phenyl(2,4,6-trimethy	ylbenz	zoyl)phosphinate:
Acute oral toxicity	:	(Rat): > 5,000 mg/kg
-		Method: OECD Test Guideline 401

	Acute dermal toxicity	: (Rat): > 2,000 mg/kg
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according to Regulation (EC) No. 1907/2006



sion	Revision Date: 30.01.2024	SDS Number:         Print Date: 16.04.2024           102000028180         Date of first issue: 04.09.2017				
		Method: OECD Test Guideline 402				
alumi	nium powder (stabil	lised):				
	inhalation toxicity	: LC50 (Rat): > 5 mg/l Exposure time: 4 h				
		Test atmosphere: dust/mist				
1-isop	propyl-2,2-dimethyltr	ethylene diisobutyrate:				
Acute	dermal toxicity	: LD50 Dermal (Rabbit): > 2,000 mg/kg Method: OECD Test Guideline 402				
2,6-di	-tert-butyl-p-cresol:					
Acute	oral toxicity	: LD50 (Rat): > 5,000 mg/kg Method: OECD Test Guideline 401				
Acute	dermal toxicity	: LD50 (Rat): > 5,000 mg/kg Method: OECD Test Guideline 402				
	corrosion/irritation assified based on ava	ailable information.				
<u>Produ</u>	<u>ict:</u>					
Rema	rks	: May cause skin irritation and/or dermatitis.				
<u>Comp</u>	oonents:					
ethyl	phenyl(2,4,6-trimeth	ylbenzoyl)phosphinate:				
Rema	rks	: May cause skin irritation and/or dermatitis.				
1-isop	propyl-2,2-dimethyltr	rimethylene diisobutyrate:				
Speci						
Expos Metho	sure time	: 4 h : OECD Test Guideline 404				
Result		: No skin irritation				
	us eye damage/eye					
	es serious eye irritatio	лі.				
<u>Produ</u> Rema		: May cause irreversible eye damage.				
<u>Comp</u>	oonents:					
		.alphahydroomega[(1-oxo-2-propenyl)oxy]-, ether with ,3-propanediol (3:1):				
etnyi-						

according to Regulation (EC) No. 1907/2006



rsion	Revision Date: 30.01.2024	SDS Number: 102000028180	Print Date: 16.04.2024 Date of first issue: 04.09.2017
ethyl	phenyl(2,4,6-trimeth	ylbenzoyl)phosphina	te:
Rema	arks	: Vapours may c and the skin.	ause irritation to the eyes, respiratory syste
1-iso	propyl-2,2-dimethylt	rimethylene diisobuty	/rate:
Spec	ies	: Rabbit	
Expo	sure time	: 72 h	
Metho		: OECD Test Gu	
Resu	lt	: No eye irritation	1
Glyce	erol, propoxylated, e	esters with acrylic acid	d:
Resu	lt	: Eye irritation	
Prop	vlidvnetrimethanol	ethoxylated, esters w	ith acrylic acid:
Resu		: Irritating to eye	-
Posp	iratory or skin sens	itisation	
-	-	lusauon	
	sensitisation cause an allergic skir	reaction.	
-	iratory sensitisation		
Not c	lassified based on av	ailable information.	
Prod	uct:		
Rema	arks	: Causes sensiti	sation.
<u>Com</u>	ponents:		
		.alphahydroomega I,3-propanediol (3:1):	[(1-oxo-2-propenyl)oxy]-, ether with 2-
Resu			sitisation by skin contact.
Bispl	henol A epoxy acryl	ate:	
Resu			sitisation by skin contact.
athyl	nhenvil(2 4 6-trimoth	ylbenzoyl)phosphina	to ·
GUIVI		• • • •	sitisation by skin contact.
-	11	. way cause sen	Shisalion by Skill Collidet.
Resu			
Resul	•	vith C12-16-alkyl glyci	-
Resu	•		<b>dyl ether:</b> a skin sensitiser, sub-category 1A.
Resul 2-Pro Resul	lt		a skin sensitiser, sub-category 1A.

according to Regulation (EC) No. 1907/2006



## **ROTOSTAR UV 166 877 FLEXO INK**

Version 9.0	Revision Date: 30.01.2024	SDS Number: 102000028180	Print Date: 16.04.2024 Date of first issue: 04.09.2017					
Pro Res	o <b>pylidynetrimethanol</b> , e	•	<b>ith acrylic acid:</b> sitisation by skin contact.					
Rei	narks	: Causes sensiti	Causes sensitisation. May cause sensitisation of susceptible persons by skin					
	rm cell mutagenicity classified based on ava	ailable information.						
	Carcinogenicity Not classified based on available information.							
-	<b>Reproductive toxicity</b> Suspected of damaging the unborn child.							
<u>Co</u>	Components:							
Rep	sopropyl-2,2-dimethyltr productive toxicity - sessment		e of adverse effects on development, based on					
	<b>OT - single exposure</b> t classified based on ava							
<b>STOT - repeated exposure</b> Not classified based on available information.								
-	Aspiration toxicity Not classified based on available information.							
11.2 Inf	ormation on other haz	ards						
Fu	ther information							
	o <mark>duct:</mark> narks	: No data availal	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.

according to Regulation (EC) No. 1907/2006



Version 9.0	Revision Date: 30.01.2024	SDS Number: 102000028180	Print Date: 16.04.2024 Date of first issue: 04.09.2017
Bispl	henol A epoxy acrylate	:	
Ecot	oxicology Assessment		
	e aquatic toxicity	: Toxic to aqua	atic life.
Chroi	nic aquatic toxicity	: Toxic to aqua	atic life with long lasting effects.
ethyl	phenyl(2,4,6-trimethyll	oenzoyl)phosphin	ate:
Ecot	oxicology Assessment		
Chroi	nic aquatic toxicity	: Toxic to aqua	atic life with long lasting effects.
1-iso	propyl-2,2-dimethyltrim	ethvlene diisobu	utvrate:
Toxic	ity to daphnia and other	•	-
•	tic invertebrates		
	<b>oxicology Assessment</b> nic aquatic toxicity	: Harmful to ac	uatic life with long lasting effects.
	i-tert-butyl-p-cresol: ctor (Short-term (acute)	: 1	
aqua	tic hazard)		
	ctor (Long-term nic) aquatic hazard)	: 1	
	oxicology Assessment		
	e aquatic toxicity	: Very toxic to	aquatic life.
Chroi	nic aquatic toxicity	: Very toxic to	aquatic life with long lasting effects.
	<b>istence and degradabi</b> l ata available	ity	
12.3 Bioa	ccumulative potential		
<u>Com</u>	ponents:		
Glyce	erol, propoxylated, est	ers with acrylic a	cid:
	ion coefficient: n- nol/water		2 (23 °C) CD Test Guideline 107
	<b>ility in soil</b> ata available		
12.5 Resu	ilts of PBT and vPvB a	ssessment	
Prod	uct:		
	ssment	: This substan	ce/mixture contains no components considere

according to Regulation (EC) No. 1907/2006



## **ROTOSTAR UV 166 877 FLEXO INK**

Version 9.0	Revision Date: 30.01.2024		DS Number: 02000028180	Print Date: 16.04.2024 Date of first issue: 04.09.2017	
				stent, bioaccumulative and toxic (PBT), or id very bioaccumulative (vPvB) at levels of	
	ocrine disrupting prope ata available	ertie	95		
12.7 Othe	r adverse effects				
	<u>uct:</u> tional ecological nation	:	unprofessional ha Harmful to aquati	hazard cannot be excluded in the event of andling or disposal. c life. fe with long lasting effects.	
<u>Com</u>	ponents:				
ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate:					
Additional ecological information		:	unprofessional ha	hazard cannot be excluded in the event of andling or disposal. fe with long lasting effects.	
Glyce	erol, propoxylated, est	ers	with acrylic acid:		
Addit	tional ecological mation	:	-		
SECTIO	N 13: Disposal consi	der	ations		
Europ	pean Waste Catalogue	:	08 03 12 - waste	ink containing dangerous substances	
13.1 Wast	te treatment methods				
Prod	uct	:	courses or the so Do not contamina chemical or used	te ponds, waterways or ditches with	
Conta	aminated packaging	:	Empty remaining Dispose of as un Do not re-use em	used product.	

### **SECTION 14: Transport information**

### 14.1 UN number or ID number

ADR	: UN 3082
IMDG	: UN 3082

according to Regulation (EC) No. 1907/2006



Version 9.0	Revision Date: 30.01.2024		DS Number: 2000028180	Print Date: 16.04.2024 Date of first issue: 04.09.2017
IATA 14.2 UN p	roper shipping name	:	UN 3082	
ADR		:	ENVIRONMENTA N.O.S. (Bisphenol A Epc	LLY HAZARDOUS SUBSTANCE, LIQUID,
IMDG	<b>)</b>	:	ENVIRONMENTA N.O.S. (Bisphenol A Epc	LLY HAZARDOUS SUBSTANCE, LIQUID,
ΙΑΤΑ		:	Environmentally hazardous substance, liquid, n.o.s. (Bisphenol A Epoxy resin)	
14.3 Tran	sport hazard class(es)			
			Class	Subsidiary risks
ADR		:	9	
IMDG	ì	:	9	
ΙΑΤΑ		:	9	
14.4 Packing group				
Class Hazar Label	ing group ification Code rd Identification Number s el restriction code	: :	III M6 90 9 (-)	
Label	ing group	:	III 9 F-A, S-F	
Packi aircra Packi	ing instruction (LQ) ing group	:	964 Y964 III 9	
<b>IATA</b> Packi (pass Packi	(Passenger) ing instruction enger aircraft) ing instruction (LQ) ing group	:	964 Y964 III 9	
14.5 Envi	ronmental hazards			
<b>ADR</b> Envir	onmentally hazardous	:	yes	

according to Regulation (EC) No. 1907/2006



## **ROTOSTAR UV 166 877 FLEXO INK**

Version 9.0	Revision Date: 30.01.2024	SDS Number: 102000028180	Print Date: 16.04.2024 Date of first issue: 04.09.2017	
<b>IMDG</b> Marin	i e pollutant	: yes		
14.6 Spec	ial precautions for u	ser		
Remarks		packagings inner packag	For single packagings <=5L / 5 kg, or combination packagings containing inner packagings <= 5L / 5 kg net per inner packaging, SV375 ADR, 2.10.2.7 IMDG-Code, A197 IATA-DGR may be applied.	
based Sheet	d upon the properties (	of the unpackaged r	are for informational purposes only, and solely naterial as it is described within this Safety Data by mode of transportation, package sizes, and	

### 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

on list 3) ethyl phenyl(2,4, trimethylbenzoyl) (Number on list 3 aluminium powd (Number on list 4 1-isopropyl-2,2-c diisobutyrate (Nu Glycerol, propox acrylic acid (Num Propylidynetrime	)phosphinate 3) er (stabilised) 40) dimethyltrimethylene umber on list 3) sylated, esters with
UK REACH Candidate list of substances of very high : Not applicable concern (SVHC) for Authorisation The Persistent Organic Pollutants Regulations (retained : Not applicable	

according to Regulation (EC) No. 1907/2006



## ROTOSTAR UV 166 877 FLEXO INK

Version	Revision Date: 30.01.2024	SDS Number:	Print Date: 16.04.2024
9.0		102000028180	Date of first issue: 04.09.2017
Britain Regul deplet UK RE (Anne)	n) ation (EC) No 1005/20 te the ozone layer	as amended for Great 009 on substances that ces subject to authorisatio ent	: Not applicable n : Not applicable

No data available

### **SECTION 16: Other information**

#### Full text of H-Statements

H228 :	Flammable solid.
H317 :	May cause an allergic skin reaction.
H319 :	Causes serious eye irritation.
H361d :	Suspected of damaging the unborn child.
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

Aquatic Acute Aquatic Chronic	:	Short-term (acute) aquatic hazard Long-term (chronic) aquatic hazard
Eye Irrit.	:	Eye irritation
Flam. Sol.	:	Flammable solids
Repr.	:	Reproductive toxicity
Skin Sens.	:	Skin sensitisation
GB EH40	:	UK. EH40 WEL - Workplace Exposure Limits
GB EH40 / TWA	:	Long-term exposure 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 according to Regulation (EC) No. 1907/2006



## ROTOSTAR UV 166 877 FLEXO INK

Version	Revision Date:	SDS Number:	Print Date: 16.04.2024
9.0	30.01.2024	102000028180	Date of first issue: 04.09.2017

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 mixtur	Classification procedure:	
Eye Irrit. 2	H319	Calculation method
Skin Sens. 1	H317	Calculation method
Repr. 2	H361d	Calculation method
Aquatic Chronic 2	H411	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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