Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

# **ROTOSTAR UV 166 002 FLEXO INK**

Version 3.0

Revision Date 30.01.2024

Print Date 01.02.2024

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

### **1.1 Product identifier**

Trade name	:	ROTOSTAR UV 166 002 FLEXO INK
Material number	:	023931U10

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

This information is not available.

#### 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	: msds.eckart@altana.com
Responsible/issuing person	

#### 1.4 Emergency telephone number

#### NCEC: (contract no.: ECKART29003-NCEC) +44 1235 239671 (Middle East/Africa, call and response in your language) +1 215 207 0061 (Americas, call and response in your language) +65 3158 1074 (Asia-Pacific, call and response in your language)

## **SECTION 2: Hazards identification**

#### **GHS Classification**

: Acute toxicity, Category 5, Oral, H303 Serious eye damage/eye irritation, Category 2A, H319 Skin sensitisation, Category 1, H317

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	Short-term (acute) aq Long-term (chronic) a		
GHS-Labelling			
Symbol(s)		>	
Signal word	: Warning	•	
Hazard statements	: H303: May be harmfu H317: May cause an H319: Causes serious H410: Very toxic to a	allergic skin reactior s eye irritation.	
Precautionary statements	P264 Wash skin the P272 Contaminated of the workplace. P273 Avoid release P280 Wear protect <b>Response:</b> P301 + P333 + P317 rash occurs: Get med P302 + P352 IF ON P305 + P351 + P338 water for several minu and easy to do. Conti P337 + P317 If eye P391 Collect spillag <b>Disposal:</b>	e to the environment ive gloves/ eye prote IF SWALLOWED lical help. N SKIN: Wash with p IF IN EYES: Rins utes. Remove conta inue rinsing. e irritation persists: G ge.	uld not be allowed out ection/ face protection. O or if skin irritation or plenty of water. se cautiously with act lenses, if present

## Hazardous components which must be listed on the label

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Identification Poly(oxy-1,2-ethanediyl), .alphah .omega[(1-oxo-2-propenyl)oxy]-, with 2-ethyl-2-(hydroxymethyl)-1,3- propanediol (3:1)	ether	
copper	7440-50-8	
Bisphenol A epoxy acrylate 2-Hydroxy-1-(4-(4-(2-hydroxy-2- methylpropionyl)benzyl)phenyl)-2-	55818-57-0 474510-57-1	
methylpropan-1-one Glycerol, propoxylated, esters with acid	acrylic 52408-84-1	
2-Propenoic acid, ester with C12-1 glycidyl ether	6-alkyl 68071-40-9	

## **SECTION 3: Composition/information on ingredients**

:

Substance No.

## Hazardous components

Chemical name	CAS-No. EINECS-No.	Classification and labelling	Concentration[%]
Poly(oxy-1,2-ethanediyl), .alpha hydroomega[(1-oxo-2- propenyl)oxy]-, ether with 2- ethyl-2-(hydroxymethyl)-1,3- propanediol (3:1)	28961-43-5	;2A;H319 Skin Sens.;1;H317 Aquatic Chronic;3;H412	50 - 100
copper	7440-50-8 231-159-6	Acute Tox.;4;H302 ;2A;H319 Aquatic Acute;1;H400 Aquatic Chronic;1;H410	20 - 25

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Bisphenol A epoxy acrylate	55818-57-0	Skin Sens.;1;H317 Aquatic Chronic;2;H411	2,5 - 10
zinc	7440-66-6 231-175-3	Aquatic Acute;1;H400 Aquatic Chronic;1;H410	2,5 - 10
2-Hydroxy-1-(4-(4-(2-hydroxy-2- methylpropionyl)benzyl)phenyl)- 2-methylpropan-1-one	474510-57-1	Acute Tox.;5;H303 Acute Tox.;5;H313 STOT RE;2;H373 Aquatic Acute;1;H400 Aquatic Chronic;1;H410	1 - 2,5
Glycerol, propoxylated, esters with acrylic acid	52408-84-1	;2A;H319 Skin Sens.;1;H317	1 - 10
2-Propenoic acid, ester with C12-16-alkyl glycidyl ether	68071-40-9	Skin Sens.;1A;H317	1 - 10

For the full text of the H-Statements mentioned in this Section, see Section 16.

## **SECTION 4: First aid measures**

#### 4.1 Description of first aid measures

General advice If inhaled	<ul> <li>Move the victim to fresh air.</li> <li>Move out of dangerous area.</li> <li>Show this safety data sheet to Do not leave the victim unattee</li> <li>Remove to fresh air.</li> </ul>	o the doctor in attendance.
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In case of skin contact In case of eye contact	<ul> <li>advice.</li> <li>If symptoms persist, call a physician</li> <li>Wash off immediately with soap and</li> <li>Immediately flush eye(s) with plenty Remove contact lenses.</li> <li>Keep eye wide open while rinsing.</li> </ul>	plenty of water.
If swallowed	<ul> <li>If eye irritation persists, consult a sp</li> <li>Induce vomiting immediately and cal Keep respiratory tract clear.</li> <li>Do not give milk or alcoholic beverag Never give anything by mouth to an If symptoms persist, call a physician</li> </ul>	l a physician. ges. unconscious person.

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

This information is not available.

### 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 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.



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Further information	: Standard procedure for chemical fire	S.
	Collect contaminated fire extinguishin must not be discharged into drains. F contaminated fire extinguishing wate accordance with local regulations. Us measures that are appropriate to loca surrounding environment.	Fire residues and r must be disposed of in se extinguishing

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

### 6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions	: Evacuate personnel to safe areas.
	Ensure adequate ventilation.
	Use personal protective equipment.

#### 6.2 Environmental precautions

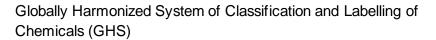
General advice	<ul> <li>The product should not be allowed to enter drains, water courses or the soil.</li> <li>Prevent product from entering drains.</li> <li>Prevent further leakage or spillage if safe to do so.</li> <li>If the product contaminates rivers and lakes or drains inform respective authorities.</li> </ul>	ו

This information is not available.

#### 6.3 Methods and materials for containment and cleaning up

	Methods for cleaning up	<ul> <li>Use mechanical handling equipment.</li> <li>Pick up and transfer to properly labelled containers.</li> <li>Do not flush with water.</li> <li>Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).</li> <li>Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).</li> </ul>
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Keep in suitable, closed containers for disposal.

## 6.4 Reference to other sections

For personal protection see section 8.

## **SECTION 7: Handling and storage**

### 7.1 Precautions for safe handling

Advice on safe handling	:	Do not breathe vapours/dust. Avoid exposure - obtain special instructions before use. Avoid contact with skin and eyes. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Dispose of rinse water in accordance with local and national regulations. Persons susceptible to skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.
Advice on protection against fire and explosion	:	Keep away from heat and sources of ignition. No smoking.
		Normal measures for preventive fire protection.
Hygiene measures	:	General industrial hygiene practice.
		When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.

### 7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers	: Keep away from sources of ig store near combustible materia closed in a cool, well-ventilater quality, do not store in heat or Keep container tightly closed in place. Containers which are of resealed and kept upright to p	als. Keep containers tightly d place. To maintain product direct sunlight. in a dry and well-ventilated pened must be carefully
	researed and kept upright to p	Tevent leakage. Liectrical
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	installations / working materials mus technological safety standards.	t comply with the
Further information on storage conditions	: Protect from humidity and water.	
Advice on common storage	: Keep away from oxidizing agents, st strongly acid materials in order to av Do not store together with oxidizing	oid exothermic reactions.
Dampness	: Keep in a dry, cool and well-ventilate	ed place.
Other data	: No decomposition if stored and app	lied as directed.

## 7.3 Specific end use(s)

This information is not available.

# SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

### Germany:

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Peak-limit: exc	ursion	2;(II)			
acrylate					
ероху	0	fraction)			
Bisphenol A	55818-57-	AGW (Alveolate	1,25 mg/m3	2020-03-30	DE TRGS 900
factor (categor	y)				
Peak-limit: exc	ursion	2;(II)			
acrylate					
ероху	0	fraction)			
Bisphenol A	55818-57-	AGW (Inhalable	10 mg/m3	2020-03-30	DE TRGS 900
copper	7440-50-8	AGW (inhalable fraction)	1 mg/m3		DE TRGS 900
Components	CAS-No.	Value type (Form of exposure)	Control parameters	Update	Basis



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factor (categor	y)				
zinc	7440-66-6	AGW (Inhalable fraction)	10 mg/m3	2021-07-02	DE TRGS 900
Peak-limit: excursion factor (category)		2;(II)			
Further information			ompliance with the no risk of harming t	•	ical tolerance
zinc	7440-66-6	AGW (Alveolate fraction)	1,25 mg/m3	2021-07-02	DE TRGS 900
Peak-limit: excursion factor (category)		2;(II)			
Further information		When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child			

### 8.2 Exposure controls

Personal protective equipme	ent	
Eye protection	:	Safety glasses
	:	Tightly fitting safety goggles
		Wear face-shield and protective suit for abnormal processing problems.
Hand protection		
Material	:	Solvent-resistant gloves (butyl-rubber)
Remarks	:	Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact). The exact break through time can be obtained from the protective glove producer and this has to be observed. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.

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	Pasammandad proventive akin pr	retection
	Recommended preventive skin pr Skin should be washed after conta	
	The suitability for a specific workp with the producers of the protectiv	blace should be discussed ve gloves.
	: The suitability for a specific workp with the producers of the protectiv	
Skin and body protection	: Impervious clothing	
	Choose body protection according concentration of the dangerous su	-
Respiratory protection	: Use suitable breathing protection requires.	if workplace concentration
	Equipment should conform to EN	14387
Environmental exposure co	ntrols	
General advice	<ul> <li>The product should not be allowed courses or the soil.</li> <li>Prevent product from entering dra Prevent further leakage or spillage</li> </ul>	ins. e if safe to do so.
	If the product contaminates rivers respective authorities.	and lakes or drains inform

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

### 9.1 Information on basic physical and chemical properties

Appearance	: liquid
Colour	: copper
Odour	: characteristic
рН	: substance/mixture is non-soluble (in water)
Melting point/range	: Not applicable
Boiling point/boiling range	: >100 °C
Flash point	: >100 °C

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Bulk density	:	No data available
Flammability (solid, gas)	:	No data available
Auto-flammability	:	No data available
Upper explosion limit	:	No data available
Lower explosion limit	:	No data available
Vapour pressure	:	No data available
Density	:	1,4 g/cm3
Solubility(ies)		
Water solubility	:	insoluble
Miscibility with water	:	immiscible
Solubility in other solvents	:	No data available
Partition coefficient: n-octanol/water	:	No data available
Ignition temperature	:	No data available
Thermal decomposition	:	No data available
Viscosity, dynamic	:	No data available
Viscosity, kinematic	:	No data available
Flow time	:	No data available

## 9.2 Other information

No data available

# **SECTION 10: Stability and reactivity**

#### 10.1 Reactivity

No decomposition if stored and applied as directed.

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#### 10.2 Chemical stability

No decomposition if stored and applied as directed.

10.3 Possibility of hazardous re	actions
Hazardous reactions	: Stable under recommended storage conditions.
	No decomposition if stored and applied as directed.
10.4 Conditions to avoid	
Conditions to avoid	: Do not allow evaporation to dryness. No data available
10.5 Incompatible materials	
Materials to avoid	: No data available
10.6 Hazardous decomposition	products
Hazardous decomposition products	:
Other information	: Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).
SECTION 11: Toxicological in	nformation

### 11.1 Information on toxicological effects

### Acute toxicity

## Components:

copper :

Acute oral toxicity

: The component/mixture is moderately toxic after single ingestion.

## 2-Hydroxy-1-(4-(4-(2-hydroxy-2-methylpropionyl)benzyl)phenyl)-2-methylpropan-1-one :

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Acute oral toxicity	: LD50 Rat: > 2 000 mg/kg	
Acute dermal toxicity	: LD50 Rat: > 2 000 mg/kg	
Skin corrosion/irritation		
<u>Product</u>		
May cause skin irritation and	/or dermatitis.	
Serious eye damage/eye irritatio	on	
<u>Product</u>		
May cause irreversible eye da	amage.	
Respiratory or skin sensitisation	n	
<u>Product</u>		
Causes sensitisation.		
Carcinogenicity		
No data available		
Toxicity to reproduction/fertility		
No data available		
Reprod.Tox./Development/Terate	ogenicity	
No data available		
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### STOT - single exposure

No data available

#### STOT - repeated exposure

No data available

### Aspiration toxicity

No data available

#### **Further information**

### Product

No data available

## **SECTION 12: Ecological information**

### 12.1 Toxicity

<u>Components:</u> Poly(oxy-1,2-ethanediyl), .al (hydroxymethyl)-1,3-propane Ecotoxicology Assessment	lphahydroomega[(1-oxo-2-prop ediol (3:1) (28961-43-5) :	enyl)oxy]-, ether with 2-ethyl-2-
Long-term (chronic) aquatic hazard	: Harmful to aquatic life with long	lasting effects.
copper (7440-50-8) :		
M-Factor	: 10	
Ecotoxicology Assessment		
Short-term (acute) aquatic hazard	: Very toxic to aquatic life.	
Long-term (chronic) aquatic	: Very toxic to aquatic life with lor	ng lasting effects.
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hazard Bisphenol A epoxy acrylate	(55919 57 0)	
Ecotoxicology Assessment	(33818-37-0).	
Short-term (acute) aquatic hazard	: Toxic to aquatic life.	
Long-term (chronic) aquatic hazard	: Toxic to aquatic life with long lasting	g effects.
zinc (7440-66-6) :		
Ecotoxicology Assessment		
Short-term (acute) aquatic hazard	: Very toxic to aquatic life.	
Long-term (chronic) aquatic hazard	: Very toxic to aquatic life with long la	asting effects.
2-Hydroxy-1-(4-(4-(2-hydroxy (474510-57-1) :	-2-methylpropionyl)benzyl)phenyl)-2-	-methylpropan-1-one
M-Factor Ecotoxicology Assessment	: 1	
Short-term (acute) aquatic hazard	: Very toxic to aquatic life.	
Long-term (chronic) aquatic hazard	: Very toxic to aquatic life with long la	asting effects.
2 Persistence and degradabil	ty	
No data available		

## 12.3 Bioaccumulative potential

No data available

### 12.4 Mobility in soil

No data available

## 12.5 Results of PBT and vPvB assessment

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No data available

### 12.6 Other adverse effects

## Product:

Additional ecological	:	An environmental hazard cannot be excluded in the event of
information		unprofessional handling or disposal., Very toxic to aquatic life
		with long lasting effects.

## **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

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> </ul>
Contaminated packaging	<ul> <li>Send to a licensed waste management company.</li> <li>Empty remaining contents.</li> <li>Dispose of as unused product.</li> <li>Do not re-use empty containers.</li> </ul>

## **SECTION 14: Transport information**

14.1	UN number		
	ADR	: 3082	
٦	TDG		
1	Not dangerous goods		
(	CFR		
1	Not dangerous goods		

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IMDG	: 3082	
ΙΑΤΑ	: 3082	
14.2 Proper shipping name		
ADR	: ENVIRONMENTALLY HAZARDOUS : N.O.S.	SUBSTANCE, LIQUID,
	(Copper metal powder )	
TDG		
Not dangerous goods <b>CFR</b>		
Not dangerous goods		
IMDG	: ENVIRONMENTALLY HAZARDOUS : N.O.S.	SUBSTANCE, LIQUID,
	(,Copper metal powder)	
ΙΑΤΑ	: ENVIRONMENTALLY HAZARDOUS : N.O.S.	SUBSTANCE, LIQUID,
	(Copper metal powder)	
14.3 Transport hazard class		
ADR	: 9	
TDG		
Not dangerous goods		
CFR		
Not dangerous goods		
IMDG	: 9	
ΙΑΤΑ	: 9	
14.4 Packing group		
ADR		
Packaging group	: III	
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Classification Code	•	M6
Hazard Identification Number	:	90
Labels	:	9
Tunnel restriction code	:	(-)
TDG		
Not dangerous goods		
CFR		
Not dangerous goods		
IMDG		
Packaging group	:	III
Labels	:	9
EmS Code	:	F-A, S-F
ΙΑΤΑ		
Packing instruction (cargo aircraft)	:	964
Packing instruction (passenger aircraft)	:	964
Packing instruction (LQ)	:	Y964
Packaging group	:	Ш
Labels	:	9
14.5 Environmental hazards		

ADR	: Environmentally hazardous
IMDG	: Marine pollutant

## 14.6 Special precautions for user

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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.

## 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

No data available

## **SECTION 15: Regulatory information**

#### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

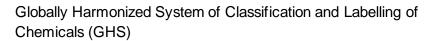
REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).	: Not applicable
REACH - List of substances subject to authorisation (Annex XIV)	: Not applicable
Regulation (EC) No 1005/2009 on substances that deplete the ozone layer	: Not applicable
Regulation (EU) 2019/1021 on persistent organic pollutants (recast)	: Not applicable
REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII)	:
REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII)	<ul> <li>Banned and/or restricted (Poly(oxy-1,2-ethanediyl), .alpha hydroomega[(1-oxo-2- propenyl)oxy]-, ether with 2-ethyl-2- (hydroxymethyl)-1,3-propanediol (3:1))</li> <li>(Bisphenol A epoxy acrylate)</li> <li>(Glycerol, propoxylated, esters with parties exist)</li> </ul>

#### 15.2 Chemical safety assessment

No data available

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acrylic acid)



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## **SECTION 16: Other information**

Full text of H-Statements	
H302	Harmful if swallowed.
H303	: May be harmful if swallowed.
H313	: May be harmful in contact with skin.
H317	: May cause an allergic skin reaction.
H319	: Causes serious eye 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.

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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