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

ROTOSTAR UV/LED 366 871 FLEXO INK

Version 2.0

Revision Date 10.10.2023

Print Date 11.10.2023

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
Material number	:	025744U10

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 Skin corrosion/irritation, Category 2, H315 Serious eye damage/eye irritation, Category 2A, H319

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	Skin sensitisation, Category 1, H317 Short-term (acute) aquatic hazard, Ca Long-term (chronic) aquatic hazard, C	
GHS-Labelling		
Symbol(s)		
Signal word	: Warning	
Hazard statements	 H303: May be harmful if swallowed. H315: Causes skin irritation. H317: May cause an allergic skin read H319: Causes serious eye irritation. H410: Very toxic to aquatic life with log 	
Precautionary statements	 Prevention: P261 Avoid breathing mist or vapour P264 Wash skin thoroughly after hat P272 Contaminated work clothing is of the workplace. P273 Avoid release to the environm P280 Wear protective gloves/ eye preserver Response: P301 + P333 + P317 IF SWALLOW rash occurs: Get medical help. P302 + P352 IF ON SKIN: Wash w P305 + P351 + P338 IF IN EYES: water for several minutes. Remove conduct and easy to do. Continue rinsing. P337 + P317 If eye irritation persist P391 Collect spillage. Disposal: P501 Dispose of contents/ contained disposal plant. 	andling. should not be allowed out nent. protection/ face protection. WED or if skin irritation or vith plenty of water. Rinse cautiously with ontact lenses, if present ts: Get medical help.

CECKART

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Hazardous components which must be listed on the label

Identification	CAS-No.
copper	7440-50-8
3-methyl-1,5-pentanediyl diacrylate	64194-22-5
2-Propenoic acid, reaction products with	1384855-91-7
dipentaerythritol	
Glycerol, propoxylated, esters with acrylic	52408-84-1
acid	

:

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-propen- 1-yl)oxy]-, ether with 2,2- bis(hydroxymethyl)-1,3- propanediol (4:1)	51728-26-8	Skin Irrit.;2;H315 Eye Irrit.;2;H319 Aquatic Chronic;2;H411	25 - 50
copper	7440-50-8 231-159-6	Acute Tox.;4;H302 ;2A;H319 Aquatic Acute;1;H400 Aquatic Chronic;1;H410	20 - 25
3-methyl-1,5-pentanediyl diacrylate	64194-22-5 264-727-7	Acute Tox.;4;H332 ;2;H315 ;2A;H319 Skin Sens.;1A;H317 STOT SE;3;H335	10 - 20

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		Aquatic Chronic;3;H412	
2-Propenoic acid, reaction products with dipentaerythritol	1384855-91-7	;2A;H319 Skin Sens.;1A;H317 Aquatic Chronic;3;H412	2,5 - 10
zinc	7440-66-6 231-175-3	Aquatic Acute;1;H400 Aquatic Chronic;1;H410	2,5 - 10
Glycerol, propoxylated, esters with acrylic acid	52408-84-1	;2A;H319 Skin Sens.;1;H317	1 - 10
Amines, hydrogenated tallow alkyl	61788-45-2 (90640-32-7) 262-976-6	Acute Tox.;5;H303 ;2;H315 ;1;H318 STOT RE;2;H373 Asp. Tox.;1;H304 Aquatic Acute;1;H400 Aquatic Chronic;1;H410	0,0025 - 0,025

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

: Move the victim to fresh air. Move out of dangerous area.

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If inhaled	Show this safety data sheet to the docIf unconscious, place in recovery posit advice.	
In case of skin contact	 If symptoms persist, call a physician. Wash off immediately with soap and pl If skin irritation persists, call a physicia If on skin, rinse well with water. If on clothes, remove clothes. 	
In case of eye contact	 Immediately flush eye(s) with plenty of Remove contact lenses. Keep eye wide open while rinsing. If eye irritation persists, consult a spec 	
If swallowed	: Keep respiratory tract clear. Do not give milk or alcoholic beverage Never give anything by mouth to an un If symptoms persist, call a physician.	s.

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

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Special protective equipment for firefighters		ar self-contained breathing apparatus essary.	s for firefighting if	
Further information		ndard procedure for chemical fires.		
	mus con	lect contaminated fire extinguishing wast not be discharged into drains. Fire taminated fire extinguishing water muordance with local regulations.	residues and	

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		
Environmental precautions	: The product should not be allowed to enter drains courses or the soil.	, water
	Prevent product from entering drains. Prevent further leakage or spillage if safe to do so If the product contaminates rivers and lakes or dra respective authorities.	
6.3 Methods and materials for co	ontainment and cleaning up	
Methods for cleaning up	: Use mechanical handling equipment. Pick up and transfer to properly labelled contained Do not flush with water. Contain spillage, and then collect with non-combu absorbent material, (e.g. sand, earth, diatomaceo vermiculite) and place in container for disposal ac local / national regulations (see section 13). Soak up with inert absorbent material (e.g. sand,	ustible us earth, cording to
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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	:	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.
Conditions for safe storage, in	cl	uding any incompatibilities
Requirements for storage areas and containers	:	Keep away from sources of ignition - No smoking. Do not store near combustible materials. Keep containers tightly

closed in a cool, well-ventilated place. To maintain product quality, do not store in heat or direct sunlight.

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully

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	resealed and kept upright to prevent installations / working materials must technological safety standards.	•
Further information on storage conditions	: Protect from humidity and water.	
Advice on common storage	: Keep away from oxidizing agents, str strongly acid materials in order to avo Do not store together with oxidizing a	bid exothermic reactions.
Dampness	: Keep in a dry, cool and well-ventilate	d place.
Other data	: No decomposition if stored and applie	ed as directed.

7.3 Specific end use(s)

This information is not available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Germany:

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Update	Basis
copper	7440-50-8	AGW (inhalable fraction)	1 mg/m3		DE TRGS 900
zinc	7440-66-6	AGW (Inhalable fraction)	10 mg/m3	2021-07-02	DE TRGS 900
Peak-limit: excursion factor (category)		2;(II)			
Further informa	Further information		ompliance with the (cal tolerance
zinc	7440-66-6	AGW (Alveolate fraction)	1,25 mg/m3	2021-07-02	DE TRGS 900
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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		
	: Wear face-shield and protectiv problems.	e suit for abnormal processing	
Hand protection			
Material	: Solvent-resistant gloves (butyl	-rubber)	
Remarks	permeability and break throug	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 protective glove producer and		
	Please observe the instruction breakthrough time which are p gloves. Also take into consider conditions under which the pro danger of cuts, abrasion, and	rovided by the supplier of the ation the specific local duct is used, such as the	
	Recommended preventive skin protection		
	Skin should be washed after c	ontact.	
	The suitability for a specific wo with the producers of the prote		
	: The suitability for a specific wo with the producers of the prote	•	
Skin and body protection		Choose body protection according to the amount and concentration of the dangerous substance at the work place.	
Respiratory protection	: Use suitable breathing protect requires.	Use suitable breathing protection if workplace concentration requires.	
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Equipment should conform to EN 14387

Environmental exposure controls

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.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	: liquid	
Colour	: gold	
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	
Bulk density	No data available	
Bulk density Flammability (solid, gas)	: No data available : No data available	
•		
Flammability (solid, gas)	No data available	
Flammability (solid, gas) Auto-flammability	No data availableNo data available	
Flammability (solid, gas) Auto-flammability Upper explosion limit	 No data available No data available No data available 	
Flammability (solid, gas) Auto-flammability Upper explosion limit Lower explosion limit	 No data available 	
Flammability (solid, gas) Auto-flammability Upper explosion limit Lower explosion limit Vapour pressure	 No data available 	

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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.

10.2 Chemical stability

No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

Hazardous reactions	: Stable under recommended storage conditions.	
	No decomposition if stored and applied as directed.	
10.4 Conditions to avoid		
Conditions to avoid	: Do not allow evaporation to dryness. No data available	

10.5 Incompatible materials

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Materials to avoid	: No data available	
10.6 Hazardous decomposition	products	
Hazardous decomposition products Other information	: : Carbon monoxide, carbon dioxid	de and unburned
	hydrocarbons (smoke).	
SECTION 11: Toxicological in	nformation	
11.1 Information on toxicologica		
Acute toxicity		
- · · ·		
Components:		
copper : Acute oral toxicity	: The component/mixture is mode ingestion.	erately toxic after single
3-methyl-1,5-pentanediyl diacry Acute inhalation toxicity	: The component/mixture is mode	erately toxic after short term
	inhalation.	
Amines, hydrogenated tallow al	kvl :	
Acute oral toxicity	: LD50 Rat: > 2 000 - 5 000 mg/k	g
	Method: OECD Test Guideline 4	401
Skin corrosion/irritation		
Product		
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May cause skin irritation and/or dermatitis.

Serious eye damage/eye irritation

Product

Eye irritation

Respiratory or skin sensitisation

Product

Causes sensitisation.

May cause sensitisation of susceptible persons by skin contact.

Carcinogenicity

No data available

Toxicity to reproduction/fertility

No data available

Reprod.Tox./Development/Teratogenicity

No data available

STOT - single exposure

No data available

STOT - repeated exposure

No data available

Aspiration toxicity

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No data available

Further information

Product

No data available

SECTION 12: Ecological information

12.1 Toxicity

Components:	
copper (7440-50-8) :	
M-Factor	: 10
Ecotoxicology Assessment	
Short-term (acute) aquatic hazard	: Very toxic to aquatic life.
Long-term (chronic) aquatic hazard	: Very toxic to aquatic life with long lasting effects.
3-methyl-1,5-pentanediyl dia	crylate (64194-22-5) :
Ecotoxicology Assessment	
Long-term (chronic) aquatic hazard	: Harmful to aquatic life with long lasting effects.
2-Propenoic acid, reaction p	roducts with dipentaerythritol (1384855-91-7) :
Ecotoxicology Assessment	
Long-term (chronic) aquatic hazard zinc (7440-66-6) :	: Harmful to aquatic life with long lasting effects.
Ecotoxicology Assessment	
Short-term (acute) aquatic hazard	: Very toxic to aquatic life.

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Long-term (chronic) aquatic hazard Amines, hydrogenated tallov	: Very toxic to aquatic life with long lasting effects. v alkyl (61788-45-2) :
M-Factor Ecotoxicology Assessment	: 10
Short-term (acute) aquatic hazard	: Very toxic to aquatic life.
Long-term (chronic) aquatic hazard	: Very toxic to aquatic life with long lasting effects.

12.2 Persistence and degradability

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

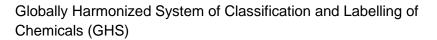
No data available

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.

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SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product	: The product should not be allowed to enter drains, water courses or the soil.
	Do not contaminate ponds, waterways or ditches with chemical or used container. Send to a licensed waste management company.
Contaminated packaging	In accordance with local and national regulations. Empty remaining contents. Dispose of as unused product.
	Do not re-use empty containers. In accordance with local and national regulations.

SECTION 14: Transport information

14.1 UN number	
ADR	: 3082
TDG	
Not dangerous goods	
CFR	
Not dangerous goods	
IMDG	: 3082
ΙΑΤΑ	: 3082
14.2 Proper shipping name	
ADR	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
	(Copper metal powder)
TDG	

DG	

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Not dangerous goods		
CFR		
Not dangerous goods		
IMDC		

IMDG	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
ΙΑΤΑ	:	(,Copper metal powder) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (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
Classification Code	:	M6
Hazard Identification Number	:	90
Labels	:	9
Tunnel restriction code	:	(-)
TDG		
Not dangerous goods		
CFR		

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Not dangerous goods

IMDG				
Packaging group	: 111			
Labels	: 9			
ΙΑΤΑ				
Packing instruction (cargo aircraft)	: 964			
Packing instruction (passenger aircraft)	: 964			
Packing instruction (LQ)	: Y964			
Packaging group	: 111			
Labels	: 9			
14.5 Environmental hazards				

ADR	: Environmentally hazardous
IMDG	: Marine pollutant

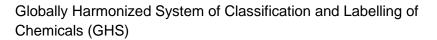
14.6 Special precautions for user

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

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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 : Not applicable Concern for Authorisation (Article 59). Regulation (EC) No 1005/2009 on substances that : Not applicable deplete the ozone layer Regulation (EU) 2019/1021 on persistent organic : Not applicable pollutants (recast) REACH - Restrictions on the manufacture, placing on 2 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)

: Banned and/or restricted (monoalkylor monoaryl or monoalkylaryl esters of acrylic acid) (2-Propenoic acid, reaction products with dipentaerythritol) (Glycerol, propoxylated, esters with acrylic acid)

15.2 Chemical safety assessment

No data available

SECTION 16: Other information

H304	: May be fatal if swallowed and	d enters airways	
H315	: Causes skin irritation.		
H317 H318	: May cause an allergic skin reaction. : Causes serious eye damage.		





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H319	: Causes serious eye irritation.		
H332	: Harmful if inhaled.		
H335	: May cause respiratory irritation.		
H373		: May cause damage to organs through prolonged or repeated	
H400	: Very toxic to aquatic life.		
H410	: Very toxic to aquatic life with long lastir	ng effects.	
H411	: Toxic to aquatic life with long lasting ef	•	

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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