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

# ROTOSTAR UV/LED 366 873 FLEXO INK

Version 2.0 Revision Date 10.10.2023

Print Date 11.10.2023

C ECKART

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

## **1.1 Product identifier**

Trade name	:	ROTOSTAR UV/LED 366 873 FLEXO INK
Material number	:	026429U10

### 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

Page 1 / 20	102000033793	A member of <b>C ALTANA</b>
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Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

# ROTOSTAR UV/LED 366 873 FLEXO INK

Version 2.0	Revision Date 10.10.2023	Print Date 11.10.2023
	Skin sensitisation, Category 1, H31 Short-term (acute) aquatic hazard, ( Long-term (chronic) aquatic hazard,	Category 1, H400
GHS-Labelling		
Symbol(s)	!	
Signal word	: Warning	
Hazard statements	<ul> <li>H303: May be harmful if swallowed.</li> <li>H315: Causes skin irritation.</li> <li>H317: May cause an allergic skin re</li> <li>H319: Causes serious eye irritation.</li> <li>H410: Very toxic to aquatic life with</li> </ul>	eaction.
Precautionary statements	Response: P301 + P333 + P317 IF SWALLO rash occurs: Get medical help. P302 + P352 IF ON SKIN: Wash P305 + P351 + P338 IF IN EYES water for several minutes. Remove and easy to do. Continue rinsing.	handling. g should not be allowed out ment. e protection/ face protection. DWED or if skin irritation or with plenty of water. S: Rinse cautiously with contact lenses, if present ists: Get medical help.

Page 2 / 20	102000033793	A member of <b>C ALTANA</b>
-------------	--------------	-----------------------------





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

# ROTOSTAR UV/LED 366 873 FLEXO INK

Version 2.0

Revision Date 10.10.2023

Print Date 11.10.2023

## 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 dipentaerythritol	1384855-91-7
Glycerol, propoxylated, esters with acrylic acid	52408-84-1

:

## **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

Page 3 / 20	102000033793	A member of <b>C ALTANA</b>



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

# ROTOSTAR UV/LED 366 873 FLEXO INK

Version 2.0

Revision Date 10.10.2023

Print Date 11.10.2023

		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
Glycerol, propoxylated, esters with acrylic acid	52408-84-1	;2A;H319 Skin Sens.;1;H317	1 - 10
zinc	7440-66-6 231-175-3	Aquatic Acute;1;H400 Aquatic Chronic;1;H410	2,5 - 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.

Page 4 / 20	102000033793	A member of <b>C ALTANA</b>
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Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

# ROTOSTAR UV/LED 366 873 FLEXO INK

Version 2.0	Revision Date 10.10.2023	Print Date 11.10.2023
If inhaled	Show this safety data sheet to the do If unconscious, place in recovery pos	
In case of skin contact	advice. If symptoms persist, call a physician. Wash off immediately with soap and	
	If skin irritation persists, call a physici If on skin, rinse well with water. If on clothes, remove clothes.	
In case of eye contact	<ul> <li>Immediately flush eye(s) with plenty of Remove contact lenses.</li> <li>Keep eye wide open while rinsing.</li> </ul>	of water.
If swallowed	<ul> <li>Keep respiratory tract clear.</li> <li>Do not give milk or alcoholic beverag</li> <li>Never give anything by mouth to an u</li> <li>If symptoms persist, call a physician.</li> </ul>	

## 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

Page 5 / 20	102000033793	A member of <b>C ALTANA</b>
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Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

# ROTOSTAR UV/LED 366 873 FLEXO INK

Version 2.0		Revision Date 10.10.2023	Print Date 11.10.2023
Special protective equipment for firefighters	:	Wear self-contained breathing apparatus f necessary.	or firefighting if
Further information	:	: Standard procedure for chemical fires.	
		Collect contaminated fire extinguishing wa must not be discharged into drains. Fire re contaminated fire extinguishing water mus accordance with local regulations.	sidues and

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

## 6.1 Personal precautions, protective equipment and emergency procedures

Page 6 / 20	102000033793 A member of <b>C ALTAI</b>	NA
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,</li> </ul>	
6.3 Methods and materials for co	ontainment and cleaning up	
	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.	
Environmental precautions	: The product should not be allowed to enter drains, water courses or the soil.	
6.2 Environmental precautions		
Personal precautions	<ul> <li>Evacuate personnel to safe areas.</li> <li>Ensure adequate ventilation.</li> <li>Use personal protective equipment.</li> </ul>	



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

# ROTOSTAR UV/LED 366 873 FLEXO INK

Version 2.0

7.2

Revision Date 10.10.2023

Print Date 11.10.2023

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, ir	ncl	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

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

quality, do not store in heat or direct sunlight.



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

# ROTOSTAR UV/LED 366 873 FLEXO INK

Version 2.0	Revision Date 10.10.2023 Print Date 11.7	
	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
Page 8 / 20	ge 8 / 20		00033793	A membe	er of C ALTANA



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

# ROTOSTAR UV/LED 366 873 FLEXO INK

Version 2.0	Revision Date 10.10.2023	Print Date 11.10.2023

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	: Take note of the information gi permeability and break through workplace conditions (mechan		
	The exact break through time of protective glove producer and		
	Please observe the instructions breakthrough time which are p gloves. Also take into consider conditions under which the pro danger of cuts, abrasion, and t	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 co	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 protecti requires.	Use suitable breathing protection if workplace concentration requires.	
Page 9 / 20	102000033793	A member of C ALTANA	



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

# ROTOSTAR UV/LED 366 873 FLEXO INK

Version 2.0	Revision Date 10.10.2023	Print Date 11.10.2023

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 wa	ater)
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 available : No 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 : No data available : No data available : No data available	
Flammability (solid, gas) Auto-flammability Upper explosion limit Lower explosion limit Vapour pressure	No data available : No data available : No data available : No data available : No data available	

Page 10 / 20	102000033793	A member of C ALTANA
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Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

# ROTOSTAR UV/LED 366 873 FLEXO INK

Version 2.0	Revision Date 10.10.2023	Print Date 11.10.2023

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

Page 11 / 20	102000033793	A member of <b>C ALTANA</b>



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

# ROTOSTAR UV/LED 366 873 FLEXO INK

Version 2.0	Revision Date 10.10.2023	Print Date 11.10.2023
Materials to avoid	: No data available	
10.6 Hazardous decomposition	products	
Hazardous decomposition products Other information	: Carbon monoxide, carbon dioxide a	and unburned
	hydrocarbons (smoke).	
SECTION 11: Toxicological in	nformation	
11.1 Information on toxicologica		
Acute toxicity		
<u>Components:</u> copper : Acute oral toxicity	: The component/mixture is moderat ingestion.	ely toxic after single
<b>3-methyl-1,5-pentanediyl diacry</b> Acute inhalation toxicity	l <b>ate :</b> : The component/mixture is moderat inhalation.	ely toxic after short term
Amines, hydrogenated tallow al Acute oral toxicity	<b>kyl:</b> : LD50 Rat: >2 000 - 5 000 mg/kg	
	Method: OECD Test Guideline 401	
Skin corrosion/irritation <u>Product</u>		
Page 12 / 20	102000033793	A member of <b>C ALTANA</b>



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

# ROTOSTAR UV/LED 366 873 FLEXO INK

Version 2.0

Revision Date 10.10.2023

Print Date 11.10.2023

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

Page 13 / 20	102000033793	A member of <b>C ALTANA</b>
--------------	--------------	-----------------------------



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

# ROTOSTAR UV/LED 366 873 FLEXO INK

Version 2.0

Revision Date 10.10.2023

Print Date 11.10.2023

No data available

#### Further information

Product

No data available

## **SECTION 12: Ecological information**

## 12.1 Toxicity

<u>Components:</u> copper (7440-50-8) : M-Factor Ecotoxicology Assessment	: 10
Short-term (acute) aquatic hazard Long-term (chronic) aquatic	<ul><li>Very toxic to aquatic life.</li><li>Very toxic to aquatic life with long lasting effects.</li></ul>
hazard 3-methyl-1,5-pentanediyl dia	
Ecotoxicology Assessment	
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 <b>zinc (7440-66-6) :</b>	: Harmful to aquatic life with long lasting effects.
Ecotoxicology Assessment	
Short-term (acute) aquatic hazard	: Very toxic to aquatic life.

Page 14 / 20	102000033793	A member of 🜔 ALTANA



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

# ROTOSTAR UV/LED 366 873 FLEXO INK

Version 2.0	Revision Date 10.10.2023	Print Date 11.10.2023

: Very toxic to aquatic life with long lasting effects.
: 10
: Very toxic to aquatic life.
: 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.

Page 15 / 20	102000033793	A member of <b>C ALTANA</b>

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

# ROTOSTAR UV/LED 366 873 FLEXO INK

Version 2.0

Revision Date 10.10.2023

Print Date 11.10.2023

## **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. In accordance with local and national regulations.
Contaminated packaging	: 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	

#### TDG

Page 16 / 20	102000033793	A member of <b>C ALTANA</b>
--------------	--------------	-----------------------------





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

# ROTOSTAR UV/LED 366 873 FLEXO INK

Version 2.0	Revision Date 10.10.2023	Print Date 11.10.2023
Not dangerous goods		
CFR		
Not dangerous goods		
INDO		

Not daligerous goods	
IMDG	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
	(,Copper metal powder)
ΙΑΤΑ	: 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	: 111
Classification Code	: M6
Hazard Identification Number	: 90
Labels	: 9
Tunnel restriction code	: (-)
TDG	
Not dangerous goods	
CFR	

Page 17 / 20	102000033793	A member of <b>C ALTANA</b>



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

# ROTOSTAR UV/LED 366 873 FLEXO INK

Version 2.0	Revision Date 10.10.2023	Print Date 11.10.2023

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

Page 18 / 20	102000033793	A member of 🜔 ALTANA

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

# ROTOSTAR UV/LED 366 873 FLEXO INK

Version 2.0

Revision Date 10.10.2023

Print Date 11.10.2023

## **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<br/>Concern for Authorisation (Article 59).:Regulation (EC) No 1005/2009 on substances that<br/>deplete the ozone layer:Regulation (EU) 2019/1021 on persistent organic<br/>pollutants (recast):REACH - Restrictions on the manufacture, placing on<br/>the market and use of certain dangerous substances,<br/>mixtures and articles (Annex XVII):REACH - Restrictions on the manufacture, placing on<br/>the market and use of certain dangerous substances,<br/>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)

: Not applicable

: Not applicable

: Not applicable

#### 15.2 Chemical safety assessment

No data available

## **SECTION 16: Other information**

Full text of H-Sta	ements			
H302	: Harmful if swallowed.			
H303	: May be harmful if swallowed.			
H304	: May be fatal if swallowed and enters airways.			
H315	: Causes skin irritation.			
H317	: May cause an allergic skin reaction.	: May cause an allergic skin reaction.		
H318	: Causes serious eye damage.			
Page 19 / 20	102000033793 A member of C ALTA	ANA		





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

# ROTOSTAR UV/LED 366 873 FLEXO INK

Version 2.0	Revision Date 10.10.2023	Print Date 11.10.2023	
H319	: Causes serious eye irritation.		
H332	: Harmful if inhaled.		
H335	: May cause respiratory irritation.		
H373	: May cause damage to organs through exposure.	prolonged or repeated	
H400	: Very toxic to aquatic life.		
H410	: Very toxic to aquatic life with long lasti	ng effects.	
H411	: Toxic to aquatic life with long lasting el	0	

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.

Page 20 / 20 102000033793	member of 🜔 ALTANA	
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