

ROTOSTAR UV 166 874 FLEXO INK

Version 4.0

Revision Date 30.01.2024

Print Date 16.04.2024

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1 Product identifier**

Trade name : ROTOSTAR UV 166 874 FLEXO INK
Material number : 023654U10

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 Suisse SA
Route de la Brasserie 2
1963 Vétroz
Telephone : +410273454800
Telefax : +410273454859
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

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

ROTOSTAR UV 166 874 FLEXO INK

Version 4.0

Revision Date 30.01.2024

Print Date 16.04.2024

Reproductive toxicity, Category 2, H361d
 Short-term (acute) aquatic hazard, Category 1, H400
 Long-term (chronic) aquatic hazard, Category 1, H410

GHS-Labeling

Symbol(s)



Signal word

: Warning

Hazard statements

: H303: May be harmful if swallowed.
 H317: May cause an allergic skin reaction.
 H319: Causes serious eye irritation.
 H361d: Suspected of damaging the unborn child.
 H410: Very toxic to aquatic life with long lasting effects.

Precautionary statements

: **Prevention:**
 P203 Obtain, read and follow all safety instructions before use.
 P261 Avoid breathing mist or vapours.
 P264 Wash skin thoroughly after handling.
 P272 Contaminated work clothing should not be allowed out of the workplace.
 P273 Avoid release to the environment.
 P280 Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.
Response:
 P301 + P333 + P317 IF SWALLOWED or if skin irritation or rash occurs: Get medical help.
 P302 + P352 IF ON SKIN: Wash with plenty of water.
 P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P318 IF exposed or concerned, get medical advice.
 P337 + P317 If eye irritation persists: Get medical help.
 P391 Collect spillage.

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

ROTOSTAR UV 166 874 FLEXO INK

Version 4.0

Revision Date 30.01.2024

Print Date 16.04.2024

Storage:

P405 Store locked up.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

Hazardous components which must be listed on the label

Identification	CAS-No.
Poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.-[(1-oxo-2-propenyl)oxy]-, ether with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol (3:1)	28961-43-5
copper	7440-50-8
Bisphenol A epoxy acrylate	55818-57-0
1-isopropyl-2,2-dimethyltrimethylene diisobutyrate	6846-50-0
Glycerol, propoxylated, esters with acrylic acid	52408-84-1
2-Propenoic acid, ester with C12-16-alkyl glycidyl ether	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.-hydro-.omega.-[(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	25 - 50

ROTOSTAR UV 166 874 FLEXO INK

Version 4.0

Revision Date 30.01.2024

Print Date 16.04.2024

copper	7440-50-8 231-159-6	Acute Tox.;4;H302 ;2A;H319 Aquatic Acute;1;H400 Aquatic Chronic;1;H410	20 - 25
Bisphenol A epoxy acrylate	55818-57-0	Skin Sens.;1;H317 Aquatic Chronic;2;H411	10 - 20
1-isopropyl-2,2-dimethyltrimethylene diisobutyrate	6846-50-0 229-934-9	Repr.;2;H361d 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
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 : Move the victim to fresh air.
Move out of dangerous area.

ROTOSTAR UV 166 874 FLEXO INK

Version 4.0

Revision Date 30.01.2024

Print Date 16.04.2024

	<p>Show this safety data sheet to the doctor in attendance. Do not leave the victim unattended.</p>
If inhaled	<p>: Remove to fresh air. If unconscious, place in recovery position and seek medical advice. If symptoms persist, call a physician.</p>
In case of skin contact	: Wash off immediately with soap and plenty of water.
In case of eye contact	<p>: Immediately flush eye(s) with plenty of water. Remove contact lenses. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.</p>
If swallowed	<p>: Induce vomiting immediately and call a physician. Keep respiratory tract clear. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. Take victim immediately to hospital.</p>

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 firefighting : Do not allow run-off from fire fighting to enter drains or water courses.

ROTOSTAR UV 166 874 FLEXO INK

Version 4.0

Revision Date 30.01.2024

Print Date 16.04.2024

5.3 Advice for firefighters

Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.

Further information : Standard procedure for chemical fires.

Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

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 : 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.

This information is not available.

6.3 Methods and materials for containment and cleaning up

Methods for cleaning up : Use mechanical handling equipment.
 Pick up and transfer to properly labelled containers.
 Do not flush with water.
 Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth,

ROTOSTAR UV 166 874 FLEXO INK

Version 4.0

Revision Date 30.01.2024

Print Date 16.04.2024

vermiculite) and place in container for disposal according to local / national regulations (see section 13).
 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 : 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 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.

ROTOSTAR UV 166 874 FLEXO INK

Version 4.0

Revision Date 30.01.2024

Print Date 16.04.2024

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Observe label precautions. Electrical installations / working materials must comply with the technological safety standards.

- Further information on storage conditions : Protect from humidity and water.
- Advice on common storage : Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions. Do not store together with oxidizing and self-igniting products.
- Dampness : Keep in a dry, cool and well-ventilated place.
- Other data : No decomposition if stored and applied 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/m ³		DE TRGS 900
Bisphenol A epoxy acrylate	55818-57-0	AGW (Inhalable fraction)	10 mg/m ³	2020-03-30	DE TRGS 900
Peak-limit: excursion factor (category)		2;(II)			

ROTOSTAR UV 166 874 FLEXO INK

Version 4.0

Revision Date 30.01.2024

Print Date 16.04.2024

Bisphenol A epoxy acrylate	55818-57-0	AGW (Alveolate fraction)	1,25 mg/m ³	2020-03-30	DE TRGS 900
Peak-limit: excursion factor (category)		2;(II)			
zinc	7440-66-6	AGW (Inhalable fraction)	10 mg/m ³	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			
zinc	7440-66-6	AGW (Alveolate fraction)	1,25 mg/m ³	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 equipment

- 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

ROTOSTAR UV 166 874 FLEXO INK

Version 4.0

Revision Date 30.01.2024

Print Date 16.04.2024

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 : The suitability for a specific workplace should be discussed with the producers of the protective gloves.
 : Impervious clothing
 Choose body protection according to the amount and concentration of the dangerous substance at the work place.
 Respiratory protection : Use suitable breathing protection if workplace concentration requires.
 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
 pH : substance/mixture is non-soluble (in water)
 Melting point/range : Not applicable

ROTOSTAR UV 166 874 FLEXO INK

Version 4.0

Revision Date 30.01.2024

Print Date 16.04.2024

Boiling point/boiling range	: > 100 °C
Flash point	: > 100 °C
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/cm ³
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**

ROTOSTAR UV 166 874 FLEXO INK

Version 4.0

Revision Date 30.01.2024

Print Date 16.04.2024

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

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 information**11.1 Information on toxicological effects****Acute toxicity****Components:****copper :**

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

Skin corrosion/irritation

ROTOSTAR UV 166 874 FLEXO INK

Version 4.0

Revision Date 30.01.2024

Print Date 16.04.2024

Product

May cause skin irritation and/or dermatitis.

Serious eye damage/eye irritation

Product

May cause irreversible eye damage.

Respiratory or skin sensitisation

Product

Causes sensitisation.

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

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

ROTOSTAR UV 166 874 FLEXO INK

Version 4.0

Revision Date 30.01.2024

Print Date 16.04.2024

Aspiration toxicity

No data available

Further information

Product

No data available

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) (28961-43-5) :

Ecotoxicology Assessment

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

Bisphenol A epoxy acrylate (55818-57-0) :

Ecotoxicology Assessment

Short-term (acute) aquatic hazard : Toxic to aquatic life.

Long-term (chronic) aquatic hazard : Toxic to aquatic life with long lasting effects.

1-isopropyl-2,2-dimethyltrimethylene diisobutyrate (6846-50-0) :

ROTOSTAR UV 166 874 FLEXO INK

Version 4.0

Revision Date 30.01.2024

Print Date 16.04.2024

Toxicity to daphnia and other aquatic invertebrates : (Daphnia (water flea)): 2,46 mg/l

Ecotoxicology Assessment

Long-term (chronic) aquatic hazard : Harmful to aquatic life with long lasting 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 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 information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal., Very toxic to aquatic life with long lasting effects.

ROTOSTAR UV 166 874 FLEXO INK

Version 4.0

Revision Date 30.01.2024

Print Date 16.04.2024

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	: Empty remaining contents. Dispose of as unused product. Do not re-use empty containers.

SECTION 14: Transport information**14.1 UN number****ADR** : 3082**TDG**

Not dangerous goods

CFR

Not dangerous goods

IMDG : 3082**IATA** : 3082**14.2 Proper shipping name****ADR** : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
N.O.S.
(Copper metal powder)**TDG**

Not dangerous goods

CFR

ROTOSTAR UV 166 874 FLEXO INK

Version 4.0

Revision Date 30.01.2024

Print Date 16.04.2024

Not dangerous goods

IMDG : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
N.O.S.

(,Copper metal powder)

IATA : 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**IATA** : 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

Not dangerous goods

IMDG

ROTOSTAR UV 166 874 FLEXO INK

Version 4.0

Revision Date 30.01.2024

Print Date 16.04.2024

Packaging group : III
Labels : 9
EmS Code : F-A, S-F

IATA

Packing instruction (cargo aircraft) : 964
Packing instruction (passenger aircraft) : 964
Packing instruction (LQ) : Y964
Packaging group : III
Labels : 9

14.5 Environmental hazards

ADR : Environmentally hazardous
IMDG : Marine pollutant

14.6 Special precautions for user

For single packagings $\leq 5L / 5 \text{ kg}$, or combination packagings containing inner packagings $\leq 5L / 5 \text{ kg}$ 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 : Not applicable

ROTOSTAR UV 166 874 FLEXO INK

Version 4.0

Revision Date 30.01.2024

Print Date 16.04.2024

Concern for Authorisation (Article 59).

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) : Banned and/or restricted
 (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)
 (1-isopropyl-2,2-dimethyltrimethylene diisobutyrate)
 (Glycerol, propoxylated, esters with acrylic acid)

15.2 Chemical safety assessment

No data available

SECTION 16: Other information
Full text of H-Statements

 H302 : Harmful if swallowed.
 H303 : May be harmful if swallowed.
 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.

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

ROTOSTAR UV 166 874 FLEXO INK

Version 4.0

Revision Date 30.01.2024

Print Date 16.04.2024

H411 : Toxic to aquatic life with long lasting effects.
H412 : Harmful to aquatic life with long lasting effects.

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