

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## ROTOSTAR UV 166 874 FLEXO INK

Version 2.0      Revision Date: 09.07.2018      SDS Number: 102000029040      Print Date: 19.11.2018  
Date of first issue: 23.05.2018

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

#### 1.1 Product identifier

Trade name : ROTOSTAR UV 166 874 FLEXO INK  
Product code : 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 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

GBK Gefahrgut Büro GmbH, Ingelheim, Germany:  
From outside US : (001) 352-323-3500  
(First call in English, response in your language is possible)  
US & Canada (toll free) : 1-800-5355-053

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### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

##### Classification (REGULATION (EC) No 1272/2008)

Acute toxicity, Category 4	H302: Harmful if swallowed.
Skin irritation, Category 2	H315: Causes skin irritation.
Eye irritation, Category 2	H319: Causes serious eye irritation.
Skin sensitisation, Category 1	H317: May cause an allergic skin reaction.
Acute aquatic toxicity, Category 1	H400: Very toxic to aquatic life.
Chronic aquatic toxicity, Category 1	H410: Very toxic to aquatic life with long lasting effects.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## ROTOSTAR UV 166 874 FLEXO INK

Version 2.0      Revision Date: 09.07.2018      SDS Number: 102000029040      Print Date: 19.11.2018  
Date of first issue: 23.05.2018

### 2.2 Label elements

#### Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Signal word : Warning

Hazard statements : H302 Harmful if swallowed.  
H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H319 Causes serious eye irritation.  
H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements : **Prevention:**  
P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.  
P273 Avoid release to the environment.  
P280 Wear protective gloves/ eye protection/ face protection.  
**Response:**  
P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.  
P337 + P313 If eye irritation persists: Get medical advice/ attention.  
P362 + P364 Take off contaminated clothing and wash it before reuse.

Hazardous components which must be listed on the label:

Propylidynetrimethanol, ethoxylated, esters with acrylic acid  
copper  
Epoxy acrylate  
Glycerol, propoxylated, 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

#### Hazardous components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification REGULATION (EC) No 1272/2008	Concentration (% w/w)
Propylidynetrimethanol,	28961-43-5	Skin Irrit. 2; H315	>= 25 - < 50

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## ROTOSTAR UV 166 874 FLEXO INK

Version  
2.0

Revision Date:  
09.07.2018

SDS Number:  
102000029040

Print Date: 19.11.2018  
Date of first issue: 23.05.2018

ethoxylated, esters with acrylic acid	500-066-5 01-2119489900-30	Skin Sens. 1; H317	
copper	7440-50-8 231-159-6 01-2119480154-42	Acute Tox. 4; H302 Eye Irrit. 2; H319 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 25 - < 50
Epoxy acrylate	55818-57-0  01-2119490020-53	Skin Sens. 1; H317	>= 10 - < 20
1-isopropyl-2,2-dimethyltrimethylene diisobutyrate	6846-50-0 229-934-9 01-2119451093-47	Aquatic Chronic 3; H412	>= 2.5 - < 10
zinc powder - zinc dust (stabilized)	7440-66-6 231-175-3 030-001-00-1 01-2119467174-37	Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 2.5 - < 10
Glycerol, propoxylated, esters with acrylic acid	52408-84-1 500-114-5 01-2119487948-12	Eye Irrit. 2; H319 Skin Sens. 1; H317	>= 1 - < 10
2-hydroxy-1-(4-(4-(2-hydroxy-2-methylpropionyl)benzyl)phenyl)-2-methylpropan-1-one	474510-57-1 444-860-9 606-140-00-4 01-2119904050-59	STOT RE 2; H373 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 1 - < 2.5

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.
- If inhaled : If unconscious, place in recovery position and seek medical advice.  
If symptoms persist, call a physician.
- In case of skin contact : Wash off immediately with soap and plenty of water.  
If skin irritation persists, call a physician.  
If on skin, rinse well with water.  
If on clothes, remove clothes.
- In case of eye contact : Immediately flush eye(s) with plenty of water.  
Remove contact lenses.  
Keep eye wide open while rinsing.  
If eye irritation persists, consult a specialist.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## ROTOSTAR UV 166 874 FLEXO INK

Version	Revision Date:	SDS Number:	Print Date: 19.11.2018
2.0	09.07.2018	102000029040	Date of first issue: 23.05.2018

---

If swallowed : 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.

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

Risks : Harmful if swallowed.  
Causes skin irritation.  
May cause an allergic skin reaction.  
Causes serious eye irritation.

### 4.3 Indication of any immediate medical attention and special treatment needed

This information is not available.

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## 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

### 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.

### 5.3 Advice for firefighters

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

Further information : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Standard procedure for chemical fires.  
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

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.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## ROTOSTAR UV 166 874 FLEXO INK

Version	Revision Date:	SDS Number:	Print Date: 19.11.2018
2.0	09.07.2018	102000029040	Date of first issue: 23.05.2018

---

### 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 : 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.

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, 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.

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### 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.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## ROTOSTAR UV 166 874 FLEXO INK

Version 2.0      Revision Date: 09.07.2018      SDS Number: 102000029040      Print Date: 19.11.2018  
Date of first issue: 23.05.2018

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.

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. 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.

Further information on storage stability : 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

#### Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis (Version Date)
copper	7440-50-8	TWA (Fumes)	0.2 mg/m <sup>3</sup> (Copper)	GB EH40 (2011-12-01)
		TWA (Dusts and mists)	1 mg/m <sup>3</sup> (Copper)	GB EH40 (2011-12-01)
		STEL (Dusts and mists)	2 mg/m <sup>3</sup> (Copper)	GB EH40 (2011-12-01)
zinc powder - zinc dust (stabilized)	7440-66-6	TWA (Inhalable)	10 mg/m <sup>3</sup>	GB EH40 (2011-12-01)

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## ROTOSTAR UV 166 874 FLEXO INK

Version  
2.0

Revision Date:  
09.07.2018

SDS Number:  
102000029040

Print Date: 19.11.2018  
Date of first issue: 23.05.2018

Further information	The COSHH definition of a substance hazardous to health includes dust of any kind when present at a concentration in air equal to or greater than 10 mg.m-3 8-hour TWA of inhalable dust or 4 mg.m-3 8-hour TWA of respirable dust. This means that any dust will be subject to COSHH if people are exposed above these levels. Some dusts have been assigned specific WELs and exposure to these must comply with the appropriate limit., Where no specific short-term exposure limit is listed, a figure three times the long-term exposure should be used			
		TWA (Respirable)	4 mg/m3	GB EH40 (2011-12-01)
Further information	The COSHH definition of a substance hazardous to health includes dust of any kind when present at a concentration in air equal to or greater than 10 mg.m-3 8-hour TWA of inhalable dust or 4 mg.m-3 8-hour TWA of respirable dust. This means that any dust will be subject to COSHH if people are exposed above these levels. Some dusts have been assigned specific WELs and exposure to these must comply with the appropriate limit., Where no specific short-term exposure limit is listed, a figure three times the long-term exposure should be used			

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

Substance name	End Use	Exposure routes	Potential health effects	Value
Propylidynetrimethanol, ethoxylated, esters with acrylic acid	Workers	Skin contact	long term – systemic effects	0.8 mg/kg
	Workers	Inhalation	long term – systemic effects	16.2 mg/m3
	Consumers	Skin contact	long term – systemic effects	0.5 mg/kg
	Consumers	Inhalation	long term – systemic effects	4.9 mg/m3
	Consumers	Ingestion	long term – systemic effects	1.4 mg/kg
	copper	Workers	Skin contact	short term – systemic effects
Workers		Inhalation	short term – systemic effects	20 mg/m3
Workers		Skin contact	long term – systemic effects	137 mg/kg
Consumers		Skin contact	short term – systemic effects	273 mg/kg
Consumers		Inhalation	short term – systemic effects	20 mg/m3
Epoxy acrylate		Workers	Skin contact	long term – systemic effects
	Workers	Inhalation	long term – systemic effects	1.17 mg/m3
	Consumers	Inhalation	long term – systemic effects	0.29 mg/m3
	Consumers	Skin contact	long term – systemic effects	16.67 mg/kg

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## ROTOSTAR UV 166 874 FLEXO INK

Version  
2.0

Revision Date:  
09.07.2018

SDS Number:  
102000029040

Print Date: 19.11.2018  
Date of first issue: 23.05.2018

	Consumers	Oral	long term – systemic effects	0.17 mg/kg
1-isopropyl-2,2-dimethyltrimethylene diisobutyrate	Workers	Skin contact	long term – systemic effects	31.20 mg/kg
	Workers	Inhalation	long term – systemic effects	110 mg/m3
	Consumers	Ingestion	long term – systemic effects	18.8 mg/kg
	Consumers	Skin contact	long term – systemic effects	18.8 mg/kg
	Consumers	Inhalation	long term – systemic effects	32.60 mg/m3
zinc powder - zinc dust (stabilized)	Workers	Inhalation	long term – systemic effects	5 mg/m3
	Workers	Skin contact	long term – systemic effects	83 mg/kg
	Consumers	Ingestion	long term – systemic effects	0.83 mg/kg
	Consumers	Skin contact	long term – systemic effects	83 mg/kg
	Consumers	Inhalation	long term – systemic effects	2.5 mg/m3
Glycerol, propoxylated, esters with acrylic acid	Workers	Skin contact	long term – systemic effects	1.92 mg/kg
	Workers	Inhalation	long term – systemic effects	16.22 mg/m3
	Consumers	Ingestion	long term – systemic effects	1.39 mg/kg
	Consumers	Skin contact	long term – systemic effects	1.15 mg/kg
	Consumers	Inhalation	long term – systemic effects	4.87 mg/m3

### Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
Propylidynetrimethanol, ethoxylated, esters with acrylic acid	Soil	0.00587 mg/kg
	Fresh water	0.00195 mg/l
	Fresh water sediment	0.0082 mg/kg
	STP	10 mg/l
	Marine water	0.000195 mg/l
copper	Marine sediment	0.00082 mg/kg
	Soil	65.5 mg/kg
	Fresh water	0.0078 mg/l
	Fresh water sediment	87 mg/kg
	Marine water	0.0052 mg/l



# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## ROTOSTAR UV 166 874 FLEXO INK

Version  
2.0

Revision Date:  
09.07.2018

SDS Number:  
102000029040

Print Date: 19.11.2018  
Date of first issue: 23.05.2018

	Marine sediment	676 mg/kg
	STP	0.230 mg/l
Epoxy acrylate	Fresh water	0.1 mg/l
	Marine water	0.01 mg/l
	Fresh water sediment	35.8 mg/kg
	Marine sediment	3.58 mg/kg
	clarification plant	10 mg/l
	Soil	7.1 mg/kg
1-isopropyl-2,2-dimethyltrimethylene diisobutyrate	Fresh water	0.014 mg/l
	Marine water	0.0014 mg/l
	Fresh water sediment	5.29 mg/kg
	Soil	1.05 mg/kg
	STP	3 mg/l
	Marine sediment	0.529 mg/kg
zinc powder - zinc dust (stabilized)	Fresh water	0.0206 mg/l
	Fresh water sediment	117.8 mg/kg
	Marine water	0.0061 mg/l
	Soil	35.6 mg/kg
	Marine sediment	56.5 mg/kg
Glycerol, propoxylated, esters with acrylic acid	Soil	0.00111 mg/kg
	Fresh water	0.00574 mg/l
	Fresh water sediment	0.01697 mg/kg
	Marine water	0.000574 mg/l
	Marine sediment	0.001697 mg/kg
	STP	10 mg/l

### 8.2 Exposure controls

#### Personal protective equipment

Eye protection : Safety glasses

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.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## ROTOSTAR UV 166 874 FLEXO INK

Version 2.0	Revision Date: 09.07.2018	SDS Number: 102000029040	Print Date: 19.11.2018 Date of first issue: 23.05.2018
----------------	------------------------------	-----------------------------	---

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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 : 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.  
Respirator with a vapour filter (EN 141)

### Environmental exposure controls

- Water : The product should not be allowed to enter drains, water courses or the soil.

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## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

- Appearance : liquid
- Colour : gold
- Odour : characteristic
- Odour Threshold : No data available
- pH : No data available
- Freezing point : No data available
- Boiling point/boiling range : No data available
- Flash point : > 100 °C
- Evaporation rate : No data available
- Flammability (solid, gas) : No data available
- Self-ignition : No data available
- Auto-ignition temperature : No data available
- Smoldering temperature : No data available
- Decomposition temperature : No data available
- Explosive properties : No data available

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## ROTOSTAR UV 166 874 FLEXO INK

Version 2.0      Revision Date: 09.07.2018      SDS Number: 102000029040      Print Date: 19.11.2018  
Date of first issue: 23.05.2018

---

Oxidizing properties : No data available

Upper explosion limit / Upper flammability limit : No data available

Lower explosion limit / Lower flammability limit : No data available

Vapour pressure : No data available

Relative vapour density : No data available

Relative density : No data available

Density : No data available

Bulk density : No data available

Water solubility : No data available

Solubility in other solvents : No data available

Partition coefficient: n-octanol/water : No data available

Decomposition temperature : 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

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## 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.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## ROTOSTAR UV 166 874 FLEXO INK

Version	Revision Date:	SDS Number:	Print Date: 19.11.2018
2.0	09.07.2018	102000029040	Date of first issue: 23.05.2018

---

### 10.4 Conditions to avoid

Conditions to avoid : Do not allow evaporation to dryness.  
No data available

### 10.5 Incompatible materials

### 10.6 Hazardous decomposition products

Thermal decomposition : Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).

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## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

Harmful if swallowed.

#### Product:

Acute oral toxicity : Acute toxicity estimate: 1,939 mg/kg  
Method: Calculation method

#### Components:

##### **copper:**

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

##### **1-isopropyl-2,2-dimethyltrimethylene diisobutyrate:**

Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg

Acute dermal toxicity : LD50 Dermal (Rabbit): > 2,000 mg/kg  
Method: OECD Test Guideline 402

##### **zinc powder - zinc dust (stabilized):**

Acute oral toxicity : (Rat): > 2,000 mg/kg

Acute inhalation toxicity : LC50 (Rat): 5.41 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist

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

Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg

Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## ROTOSTAR UV 166 874 FLEXO INK

Version  
2.0

Revision Date:  
09.07.2018

SDS Number:  
102000029040

Print Date: 19.11.2018  
Date of first issue: 23.05.2018

---

### **Skin corrosion/irritation**

Causes skin irritation.

#### **Product:**

Remarks: May cause skin irritation and/or dermatitis.

#### **Components:**

##### **Propylidynetrimethanol, ethoxylated, esters with acrylic acid:**

Result: Skin irritation

Remarks: May cause skin irritation and/or dermatitis.

##### **copper:**

Remarks: May cause skin irritation in susceptible persons.

##### **1-isopropyl-2,2-dimethyltrimethylene diisobutyrate:**

Species: Rabbit

Exposure time: 4 h

Method: OECD Test Guideline 404

Result: No skin irritation

### **Serious eye damage/eye irritation**

Causes serious eye irritation.

#### **Product:**

Remarks: Eye irritation

#### **Components:**

##### **Propylidynetrimethanol, ethoxylated, esters with acrylic acid:**

Remarks: Vapours may cause irritation to the eyes, respiratory system and the skin.

##### **copper:**

Result: Eye irritation

##### **1-isopropyl-2,2-dimethyltrimethylene diisobutyrate:**

Species: Rabbit

Exposure time: 72 h

Method: OECD Test Guideline 405

Result: No eye irritation

### **Respiratory or skin sensitisation**

#### **Skin sensitisation**

May cause an allergic skin reaction.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## ROTOSTAR UV 166 874 FLEXO INK

Version  
2.0

Revision Date:  
09.07.2018

SDS Number:  
102000029040

Print Date: 19.11.2018  
Date of first issue: 23.05.2018

---

### **Respiratory sensitisation**

Not classified based on available information.

### **Product:**

Remarks: Causes sensitisation.

May cause sensitisation of susceptible persons by skin contact.

### **Components:**

#### **Propylidynetrimethanol, ethoxylated, esters with acrylic acid:**

Result: May cause sensitisation by skin contact.

Remarks: Causes sensitisation.

May cause sensitisation of susceptible persons by skin contact.

### **Germ cell mutagenicity**

Not classified based on available information.

### **Carcinogenicity**

Not classified based on available information.

### **Reproductive toxicity**

Not classified based on available information.

### **STOT - single exposure**

Not classified based on available information.

### **STOT - repeated exposure**

Not classified based on available information.

### **Aspiration toxicity**

Not classified based on available information.

### **Further information**

#### **Product:**

Remarks: No data available

#### **Components:**

#### **Propylidynetrimethanol, ethoxylated, esters with acrylic acid:**

Remarks: No data available

#### **copper:**

Remarks: No data available

#### **zinc powder - zinc dust (stabilized):**

Remarks: No data available

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## ROTOSTAR UV 166 874 FLEXO INK

Version 2.0      Revision Date: 09.07.2018      SDS Number: 102000029040      Print Date: 19.11.2018  
Date of first issue: 23.05.2018

---

### SECTION 12: Ecological information

#### 12.1 Toxicity

##### Components:

##### **Propylidynetrimethanol, ethoxylated, esters with acrylic acid:**

Toxicity to daphnia and other aquatic invertebrates : (Daphnia (water flea)): 10,232.73 mg/l

##### **copper:**

M-Factor (Acute aquatic toxicity) : 10

##### **Ecotoxicology Assessment**

Acute aquatic toxicity : Very toxic to aquatic life.

Chronic aquatic toxicity : Very toxic to aquatic life with long lasting effects.

##### **1-isopropyl-2,2-dimethyltrimethylene diisobutyrate:**

Toxicity to daphnia and other aquatic invertebrates : (Daphnia (water flea)): 2.46 mg/l

##### **zinc powder - zinc dust (stabilized):**

##### **Ecotoxicology Assessment**

Acute aquatic toxicity : Very toxic to aquatic life.

Chronic aquatic toxicity : 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

##### Product:

Assessment : 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..

#### 12.6 Other adverse effects

##### Product:

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## ROTOSTAR UV 166 874 FLEXO INK

Version 2.0      Revision Date: 09.07.2018      SDS Number: 102000029040      Print Date: 19.11.2018  
Date of first issue: 23.05.2018

---

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.

### Components:

#### **Propylidynetrimehanol, ethoxylated, esters with acrylic acid:**

Additional ecological information : No data available

#### **copper:**

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.

#### **zinc powder - zinc dust (stabilized):**

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.

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## SECTION 13: Disposal considerations

European Waste Catalogue : 08 03 12 - waste ink containing dangerous substances

### 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.

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## SECTION 14: Transport information

### 14.1 UN number

ADR : UN 3082

IMDG : UN 3082

IATA : UN 3082

### 14.2 UN proper shipping name

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# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## ROTOSTAR UV 166 874 FLEXO INK

Version 2.0      Revision Date: 09.07.2018      SDS Number: 102000029040      Print Date: 19.11.2018  
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**ADR** : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(Copper metal powder)

**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(es)

**ADR** : 9

**IMDG** : 9

**IATA** : 9

### 14.4 Packing group

**ADR**  
Packing group : III  
Classification Code : M6  
Hazard Identification Number : 90  
Labels : 9

**IMDG**  
Packing group : III  
Labels : 9  
EmS Code : F-A, S-F

**IATA (Cargo)**  
Packing instruction (cargo aircraft) : 964  
Packing instruction (LQ) : Y964  
Packing group : III  
Labels : Miscellaneous Dangerous Goods

**IATA (Passenger)**  
Packing instruction (passenger aircraft) : 964  
Packing instruction (LQ) : Y964  
Packing group : III  
Labels : Miscellaneous Dangerous Goods

### 14.5 Environmental hazards

**ADR**  
Environmentally hazardous : yes

**IMDG**  
Marine pollutant : yes

**IATA (Passenger)**  
Environmentally hazardous : yes

**IATA (Cargo)**  
Environmentally hazardous : yes

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## ROTOSTAR UV 166 874 FLEXO INK

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### 14.6 Special precautions for user

Remarks : 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 and the IBC Code

Not applicable for product as supplied.

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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 Concern for Authorisation (Article 59) : Not applicable

### 15.2 Chemical safety assessment

This information is not available.

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## SECTION 16: Other information

### Full text of H-Statements

H302 : Harmful if swallowed.  
H315 : Causes skin irritation.  
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.  
H412 : Harmful to aquatic life with long lasting effects.

### Full text of other abbreviations

Acute Tox. : Acute toxicity  
Aquatic Acute : Acute aquatic toxicity  
Aquatic Chronic : Chronic aquatic toxicity  
Eye Irrit. : Eye irritation  
Skin Irrit. : Skin irritation  
Skin Sens. : Skin sensitisation  
STOT RE : Specific target organ toxicity - repeated exposure  
GB EH40 : UK. EH40 WEL - Workplace Exposure Limits  
GB EH40 / TWA : Long-term exposure limit (8-hour TWA reference period)  
GB EH40 / STEL : Short-term exposure limit (15-minute reference period)

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous

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according to Regulation (EC) No. 1907/2006



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Goods by Road; AICS - Australian Inventory of Chemical Substances; 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 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; TCSI - Taiwan Chemical Substance 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

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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