

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



ROTOSTAR UV FPG 77512 Rich Pale Gold

Version 2.0 Revision Date: 12.12.2019 SDS Number: 102000028644 Print Date: 06.08.2020
Date of first issue: 20.11.2017

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

1.1 Product identifier

Trade name : ROTOSTAR UV FPG 77512 Rich Pale Gold
Product code : 023528U11

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 :

E-mail address of person responsible for the SDS : msds.eckart@altana.com

1.4 Emergency telephone number

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

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.
Short-term (acute) aquatic hazard, Category 1	H400: Very toxic to aquatic life.
Long-term (chronic) aquatic hazard, Category 1	H410: Very toxic to aquatic life with long lasting effects.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :

Signal word : Warning

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



ROTOSTAR UV FPG 77512 Rich Pale Gold

Version 2.0 Revision Date: 12.12.2019 SDS Number: 102000028644 Print Date: 06.08.2020
Date of first issue: 20.11.2017

Hazard statements : 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
2-Propenoic acid, reaction products with dipentaerythritol
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)
2-Propenoic acid, polymer with 2,2-bis(hydroxymethyl)-1,3-propanediol, methyloxirane and oxirane	144086-02-2 604-394-0	Eye Irrit. 2A; H319 Aquatic Chronic 2; H411	>= 25 - < 50
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	>= 20 - < 25
Propylidynetrimethanol, ethoxylated, esters with acrylic	28961-43-5 500-066-5	Eye Irrit. 2; H319 Skin Sens. 1; H317	>= 20 - < 25

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



ROTOSTAR UV FPG 77512 Rich Pale Gold

Version
2.0

Revision Date:
12.12.2019

SDS Number:
102000028644

Print Date: 06.08.2020
Date of first issue: 20.11.2017

acid			
2-Propenoic acid, reaction products with dipentaerythritol	1384855-91-7 01-2119980666-22	Skin Sens. 1B; H317 Eye Irrit. 2; H319 Aquatic Chronic 3; H412	>= 10 - < 20
zinc powder — zinc dust (stabilised)	7440-66-6 231-175-3 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	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 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.
- 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.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



ROTOSTAR UV FPG 77512 Rich Pale Gold

Version 2.0 Revision Date: 12.12.2019 SDS Number: 102000028644 Print Date: 06.08.2020
Date of first issue: 20.11.2017

4.2 Most important symptoms and effects, both acute and delayed

Risks : 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.

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.

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.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



ROTOSTAR UV FPG 77512 Rich Pale Gold

Version	Revision Date:	SDS Number:	Print Date: 06.08.2020
2.0	12.12.2019	102000028644	Date of first issue: 20.11.2017

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.

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.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



ROTOSTAR UV FPG 77512 Rich Pale Gold

Version 2.0 Revision Date: 12.12.2019 SDS Number: 102000028644 Print Date: 06.08.2020
Date of first issue: 20.11.2017

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
Copper	7440-50-8	TWA (Fumes)	0.2 mg/m ³ (Copper)	GB EH40
		TWA (Dusts and mists)	1 mg/m ³ (Copper)	GB EH40
		STEL (Dusts and mists)	2 mg/m ³ (Copper)	GB EH40
zinc powder — zinc dust (stabilised)	7440-66-6	TWA (Inhalable)	10 mg/m ³	GB EH40
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 to dust above these levels. Some dusts have been assigned specific WELs and exposure to these must comply with the appropriate limits., Where no specific short-term exposure limit is listed, a figure three times the long-term exposure limit should be used.			
		TWA (Respirable)	4 mg/m ³	GB EH40

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



ROTOSTAR UV FPG 77512 Rich Pale Gold

Version
2.0

Revision Date:
12.12.2019

SDS Number:
102000028644

Print Date: 06.08.2020
Date of first issue: 20.11.2017

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 to dust above these levels. Some dusts have been assigned specific WELs and exposure to these must comply with the appropriate limits., Where no specific short-term exposure limit is listed, a figure three times the long-term exposure limit should be used.
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Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health effects	Value
2-Propenoic acid, polymer with 2,2-bis(hydroxymethyl)-1,3-propanediol, methyloxirane and oxirane	Workers	Inhalation	Long-term systemic effects	5.87 mg/m ³
	Workers	Skin contact	Long-term systemic effects	3.33 mg/kg
	Consumers	Inhalation	Long-term systemic effects	1.45 mg/m ³
	Consumers	Skin contact	Long-term systemic effects	1.67 mg/kg
Copper	Consumers	Ingestion	Long-term systemic effects	0.83 mg/kg
	Workers	Skin contact	Acute systemic effects	273 mg/kg
	Workers	Inhalation	Acute systemic effects	20 mg/m ³
	Workers	Skin contact	Long-term systemic effects	137 mg/kg
	Consumers	Skin contact	Acute systemic effects	273 mg/kg
	Consumers	Inhalation	Acute systemic effects	20 mg/m ³
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/m ³
	Consumers	Skin contact	Long-term systemic effects	0.5 mg/kg
	Consumers	Inhalation	Long-term systemic effects	4.9 mg/m ³
2-Propenoic acid, reaction products with dipentaerythritol	Consumers	Ingestion	Long-term systemic effects	1.4 mg/kg
	Workers	Inhalation	Long-term systemic effects	1.76 mg/m ³
	Workers	Skin contact	Long-term systemic effects	0.5 mg/m ³

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



ROTOSTAR UV FPG 77512 Rich Pale Gold

Version
2.0

Revision Date:
12.12.2019

SDS Number:
102000028644

Print Date: 06.08.2020
Date of first issue: 20.11.2017

zinc powder — zinc dust (stabilised)	Workers	Inhalation	Long-term systemic effects	5 mg/m ³
	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/m ³
Glycerol, propoxylated, esters with acrylic acid	Workers	Inhalation	Long-term systemic effects	16.22 mg/m ³
	Workers	Dermal	Long-term systemic effects	1.92 mg/kg
	Consumers	Inhalation	Long-term systemic effects	4.87 mg/m ³
	Consumers	Dermal	Long-term systemic effects	1.15 mg/kg
	Consumers	Oral	Long-term systemic effects	1.39 mg/kg

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

Substance name	Environmental Compartment	Value
2-Propenoic acid, polymer with 2,2-bis(hydroxymethyl)-1,3-propanediol, methyloxirane and oxirane	Fresh water	0.0079 mg/l
	Marine water	0.00079 mg/l
	Fresh water sediment	0.119 mg/kg
	Marine sediment	0.0119 mg/kg
	Soil	0.0192 mg/kg
Copper	Soil	65.5 mg/kg
	Fresh water	0.0078 mg/l
	Fresh water sediment	87 mg/kg
	Marine water	0.0052 mg/l
	Marine sediment	676 mg/kg
	STP	0.230 mg/l
Propylidynetrimethanol, ethoxylated, esters with acrylic acid	Soil	0.006 mg/kg
	Fresh water	0.002 mg/l
	Fresh water sediment	0.008 mg/kg
	STP	10 mg/l
	Marine water	0.00 mg/l
	Marine sediment	0.001 mg/kg
2-Propenoic acid, reaction products with dipentaerythritol	Fresh water	0.013 mg/l
	STP	10 mg/l
	Marine sediment	0.28 mg/kg
	Fresh water sediment	2.8 mg/kg

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



ROTOSTAR UV FPG 77512 Rich Pale Gold

Version 2.0 Revision Date: 12.12.2019 SDS Number: 102000028644 Print Date: 06.08.2020
Date of first issue: 20.11.2017

	Marine water	0.0013 mg/l
	Soil	0.22 mg/kg
	Intermittent water release	0.13 mg/l
zinc powder — zinc dust (stabilised)	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	Fresh water	0.00574 mg/l
	Marine water	0.000574 mg/l
	Fresh water sediment	0.01697 mg/kg
	Marine sediment	0.001697 mg/kg
	STP	10 mg/l
	Soil	0.00111 mg/kg

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. 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.
Equipment should conform to EN 14387

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



ROTOSTAR UV FPG 77512 Rich Pale Gold

Version
2.0

Revision Date:
12.12.2019

SDS Number:
102000028644

Print Date: 06.08.2020
Date of first issue: 20.11.2017

Environmental exposure controls

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

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

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

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



ROTOSTAR UV FPG 77512 Rich Pale Gold

Version 2.0 Revision Date: 12.12.2019 SDS Number: 102000028644 Print Date: 06.08.2020
Date of first issue: 20.11.2017

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

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

10.6 Hazardous decomposition products

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

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



ROTOSTAR UV FPG 77512 Rich Pale Gold

Version 2.0 Revision Date: 12.12.2019 SDS Number: 102000028644 Print Date: 06.08.2020
Date of first issue: 20.11.2017

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Not classified based on available information.

Product:

Acute oral toxicity : Acute toxicity estimate: > 2,000 mg/kg
Method: Calculation method

Components:

Copper:

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

zinc powder — zinc dust (stabilised):

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

Skin corrosion/irritation

Causes skin irritation.

Product:

Remarks: May cause skin irritation and/or dermatitis.

Components:

2-Propenoic acid, polymer with 2,2-bis(hydroxymethyl)-1,3-propanediol, methyloxirane and oxirane:

Remarks: May cause skin irritation in susceptible persons.

Copper:

Remarks: May cause skin irritation in susceptible persons.

Glycerol, propoxylated, esters with acrylic acid:

Remarks: May cause skin irritation and/or dermatitis.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



ROTOSTAR UV FPG 77512 Rich Pale Gold

Version
2.0

Revision Date:
12.12.2019

SDS Number:
102000028644

Print Date: 06.08.2020
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Serious eye damage/eye irritation

Causes serious eye irritation.

Product:

Remarks: Eye irritation

Components:

2-Propenoic acid, polymer with 2,2-bis(hydroxymethyl)-1,3-propanediol, methyloxirane and oxirane:

Remarks: May cause irreversible eye damage.

Copper:

Result: Eye irritation

Propylidyntrimethanol, ethoxylated, esters with acrylic acid:

Result: Irritating to eyes.

Glycerol, propoxylated, esters with acrylic acid:

Remarks: Eye irritation

Respiratory or skin sensitisation

Skin sensitisation

May cause an allergic skin reaction.

Respiratory sensitisation

Not classified based on available information.

Product:

Remarks: Causes sensitisation.

May cause sensitisation of susceptible persons by skin contact.

Components:

Propylidyntrimethanol, ethoxylated, esters with acrylic acid:

Result: May cause sensitisation by skin contact.

Remarks: Causes sensitisation.

May cause sensitisation of susceptible persons by skin contact.

Glycerol, propoxylated, esters with acrylic acid:

Remarks: Causes sensitisation.

May cause sensitisation of susceptible persons by skin contact.

Germ cell mutagenicity

Not classified based on available information.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



ROTOSTAR UV FPG 77512 Rich Pale Gold

Version
2.0

Revision Date:
12.12.2019

SDS Number:
102000028644

Print Date: 06.08.2020
Date of first issue: 20.11.2017

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:

2-Propenoic acid, polymer with 2,2-bis(hydroxymethyl)-1,3-propanediol, methyloxirane and oxirane:

Remarks: No data available

Copper:

Remarks: No data available

Propylidynetrimethanol, ethoxylated, esters with acrylic acid:

Remarks: No data available

zinc powder — zinc dust (stabilised):

Remarks: No data available

Glycerol, propoxylated, esters with acrylic acid:

Remarks: No data available

SECTION 12: Ecological information

12.1 Toxicity

Components:

Copper:

M-Factor (Short-term (acute) : 10
aquatic hazard)

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



ROTOSTAR UV FPG 77512 Rich Pale Gold

Version 2.0 Revision Date: 12.12.2019 SDS Number: 102000028644 Print Date: 06.08.2020
Date of first issue: 20.11.2017

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.

Propylidynetrimehanol, ethoxylated, esters with acrylic acid:

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

zinc powder — zinc dust (stabilised):

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

Components:

2-Propenoic acid, polymer with 2,2-bis(hydroxymethyl)-1,3-propanediol, methyloxirane and oxirane:

Partition coefficient: n-octanol/water : log Pow: 2.17 - 2.61

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:

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.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



ROTOSTAR UV FPG 77512 Rich Pale Gold

Version 2.0 Revision Date: 12.12.2019 SDS Number: 102000028644 Print Date: 06.08.2020
Date of first issue: 20.11.2017

Components:

2-Propenoic acid, polymer with 2,2-bis(hydroxymethyl)-1,3-propanediol, methyloxirane and oxirane:

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

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.

Propylidyntrimethanol, ethoxylated, esters with acrylic acid:

Additional ecological information : No data available

zinc powder — zinc dust (stabilised):

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.

Glycerol, propoxylated, esters with acrylic acid:

Additional ecological information : No data available

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.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



ROTOSTAR UV FPG 77512 Rich Pale Gold

Version 2.0 Revision Date: 12.12.2019 SDS Number: 102000028644 Print Date: 06.08.2020
Date of first issue: 20.11.2017

SECTION 14: Transport information

14.1 UN number

ADR : UN 3082
IMDG : UN 3082
IATA : UN 3082

14.2 UN proper shipping name

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 : Class 9 - Miscellaneous dangerous substances and articles

IATA (Passenger)

Packing instruction (passenger aircraft) : 964
Packing instruction (LQ) : Y964
Packing group : III
Labels : Class 9 - Miscellaneous dangerous substances and articles

14.5 Environmental hazards

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



ROTOSTAR UV FPG 77512 Rich Pale Gold

Version 2.0 Revision Date: 12.12.2019 SDS Number: 102000028644 Print Date: 06.08.2020
Date of first issue: 20.11.2017

ADR

Environmentally hazardous : yes

IMDG

Marine pollutant : yes

IATA (Passenger)

Environmentally hazardous : yes

IATA (Cargo)

Environmentally hazardous : yes

14.6 Special precautions for user

Remarks : 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 and the IBC Code

Not applicable for product as supplied.

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

SECTION 16: Other information

Full text of H-Statements

H302 : Harmful if swallowed.
H317 : May cause an allergic skin reaction.
H319 : Causes serious eye irritation.
H373 : May cause damage to organs through prolonged or repeated exposure.
H400 : Very toxic to aquatic life.
H410 : Very toxic to aquatic life with long lasting effects.
H411 : Toxic to aquatic life with long lasting effects.
H412 : Harmful to aquatic life with long lasting effects.

Full text of other abbreviations

Acute Tox. : Acute toxicity
Aquatic Acute : Short-term (acute) aquatic hazard
Aquatic Chronic : Long-term (chronic) aquatic hazard

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Eye Irrit. : Eye 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 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; SVHC - Substance of Very High Concern; 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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SAFETY DATA SHEET

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