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

ROTOVARIO UV 900 112 RPG

Version 5.0

Revision Date 30.01.2024

Print Date 01.02.2024

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

2 RPG

1.1 Product identifier

Trade name	:	ROTOVARIO	UV 900	11
Material number	:	02215231V		

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 4, Oral, H302 Serious eye damage/eye irritation, Category 2A, H319 Skin sensitisation, Category 1, H317

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	Short-term (acute) aquatic hazard, C Long-term (chronic) aquatic hazard,	
GHS-Labelling		
Symbol(s)		
Signal word	: Warning	
Hazard statements	 H302: Harmful if swallowed. H317: May cause an allergic skin rea H319: Causes serious eye irritation. H410: Very toxic to aquatic life with lease 	
Precautionary statements	Rinse mouth. P302 + P352 IF ON SKIN: Wash v P305 + P351 + P338 IF IN EYES: water for several minutes. Remove of and easy to do. Continue rinsing. P333 + P317 If skin irritation or ras help.	when using this product. should not be allowed out ment. protection/ face protection. WED: Get medical help. with plenty of water. : Rinse cautiously with contact lenses, if present sh occurs: Get medical sts: Get medical help.
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Hazardous components which must be listed on the label

Identification copper Poly(oxy-1,2-ethanediyl), .alphahydro- .omega[(1-oxo-2-propenyl)oxy]-, ether with 2-ethyl-2-(hydroxymethyl)-1,3-	CAS-No. 7440-50-8 28961-43-5
propanediol (3:1) Glycerol, propoxylated, esters with acrylic acid	52408-84-1

Other hazards which do not result in classification

Combustible Solids

SECTION 3: Composition/information on ingredients

:

Substance No.

Hazardous components

Chemical name	CAS-No. EINECS-No.	Classification and labelling	Concentration[%]
copper	7440-50-8 231-159-6	Acute Tox.;4;H302 ;2A;H319 Aquatic Acute;1;H400 Aquatic Chronic;1;H410	50 - 100
Poly(oxy-1,2-ethanediyl), .alpha hydroomega[(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	20 - 25





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zinc	7440-66-6 231-175-3	Aquatic Acute;1;H400 Aquatic Chronic;1;H410	2,5 - 10
Glycerol, propoxylated, esters with acrylic acid	52408-84-1	;2A;H319 Skin Sens.;1;H317	1 - 10
Amines, hydrogenated tallow alkyl	61788-45-2 (90640-32-7) 262-976-6	Acute Tox.;5;H303 ;2;H315 ;1;H318 STOT RE;2;H373 Asp. Tox.;1;H304 Aquatic Acute;1;H400 Aquatic Chronic;1;H410	0,1 - 0,25

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. Show this safety data sheet to the doctor in attendance. Do not leave the victim unattended. 	
If inhaled	: Remove to fresh air. If unconscious, place in recove advice.	
In case of skin contact In case of eye contact	 If symptoms persist, call a physical wash off immediately with soap Immediately flush eye(s) with premove contact lenses. Keep eye wide open while rinsing if eye irritation persists, consult 	p and plenty of water. lenty of water. ng.
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If swallowed	: Induce vomiting immediately and ca Keep respiratory tract clear.	
	Do not give milk or alcoholic beverage	ges.

If symptoms persist, call a physician.

Never give anything by mouth to an unconscious person.

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 : Water, High volume water jet, Carbon dioxide (CO2) media 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 Special protective equipment : Wear self-contained breathing apparatus for firefighting if for firefighters 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

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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.
	Avoid dust formation.
	Avoid breathing dust.

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, vermiculite) and place in container for disposal according to local / national regulations (see section 13).
	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	:	Avoid formation of respirable particles. 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.
		Avoid dust formation. Provide appropriate exhaust ventilation at places where dust is formed.
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.

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Further information on storage conditions	: Protect from humidity and water.	
Advice on common storage	: Keep away from oxidizing agents, stro strongly acid materials in order to avoid Do not store together with oxidizing an	d exothermic reactions.

Dampness :	: Keep in a dry, cool and well-ventilated plac	e.
------------	--	----

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/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 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/m3	2021-07-02	DE TRGS 900	
	Peak-limit: excursion factor (category)		2;(II)				
	Further information		When there is c	ompliance with the	OEL and biologi	cal tolerance	
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	values, there is no risk of harming the un	born child

8.2 Exposure controls

Personal protective equipr	nent	
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 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.
	:	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



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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	:	Pasty solid
Colour	:	gold
Odour	:	characteristic
рН	:	substance/mixture is non-soluble (in water)
Melting point/range	:	920 - 1 065 °C
Boiling point/boiling range	:	100 - 200 °C
Flash point	:	No data available
Bulk density	:	No data available
Flammability (solid, gas)	:	Combustible Solids
Auto-flammability	:	No data available
Upper explosion limit	:	No data available
Lower explosion limit	:	No data available
Vapour pressure	:	No data available
Density	:	2 - 8,4 g/cm3
Solubility(ies)		
Water solubility	:	insoluble

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Miscibility with water	: immiscible	
Solubility in other solvents	: No data available	
Partition coefficient: n-octan		
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		
Self-Accelerating decomposition temperature (SADT)	: No data available	
Self-heating substances	: No data available	
Heat of combustion	: No data available	
Impact sensitivity	: No data available	
Surface tension	: No data available	
Conductivity	: No data available	

Sublimation point	:	No data available
Molecular weight	:	No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

No decomposition if stored and applied as directed.

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10.2 Chemical stability

No decomposition if stored and applied as directed.

10.3 Possibility of hazardous rea	actions
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 p	products
Hazardous decomposition products	:
Other information	: Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).
SECTION 11: Toxicological in	formation

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.

Amines, hydrogenated tallow alkyl :

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Acute oral toxicity Skin corrosion/irritation <u>Product</u> May cause skin irritation an Serious eye damage/eye irrita <u>Product</u> May cause irreversible eye	: LD50 Rat: > 2 000 - 5 000 mg	
Skin corrosion/irritation <u>Product</u> May cause skin irritation an Serious eye damage/eye irrita <u>Product</u>	: LD50 Rat: > 2 000 - 5 000 mg	
<u>Product</u> May cause skin irritation an Serious eye damage/eye irrita <u>Product</u>		/kg
<u>Product</u> May cause skin irritation an Serious eye damage/eye irrita <u>Product</u>	Method: OECD Test Guideline	401
May cause skin irritation an Serious eye damage/eye irrita <u>Product</u>		
Serious eye damage/eye irrita <u>Product</u>		
Product	nd/or dermatitis.	
	ition	
May cause irreversible eve		
iviay cause meversible eye	damage.	
Respiratory or skin sensitisati	on	
<u>Product</u>		
Causes sensitisation.		
Carcinogenicity		
No data available		
Toxicity to reproduction/fertilit	ty	
No data available		
Reprod.Tox./Development/Tera	atogenicity	
No data available		
STOT - single exposure		
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No data available

STOT - repeated exposure

No data available

Aspiration toxicity

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	: 10	
Ecotoxicology Assessment		
Short-term (acute) aquatic hazard	: Very toxic to aquatic life.	
Long-term (chronic) aquatic hazard	: Very toxic to aquatic life with I	ong lasting effects.
Poly(oxy-1,2-ethanediyl), .al (hydroxymethyl)-1,3-propan		openyl)oxy]-, ether with 2-ethyl-2-
Ecotoxicology Assessment		
Long-term (chronic) aquatic hazard	: Harmful to aquatic life with lor	ng lasting effects.
zinc (7440-66-6) :		
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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.
Amines, hydrogenated tallow	w alkyl (61788-45-2) :
M-Factor Ecotoxicology Assessment	: 10
Short-term (acute) aquatic hazard	: Very toxic to aquatic life.
Long-term (chronic) aquatic hazard	: Very toxic to aquatic life with long lasting effects.

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

No data available

12.6 Other adverse effects

Product:

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

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SECTION 13: Disposal considerations

13.1 Waste treatment methods

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

SECTION 14: Transport information

14.1 UN number	
ADR	: 3077
TDG	
Not dangerous goods	
CFR	
Not dangerous goods	
IMDG	: 3077
ΙΑΤΑ	: 3077
14.2 Proper shipping name	
ADR	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
	(Copper metal powder)
TDC	

TDG

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Not dangerous goods CFR	
Not dangerous goods	
IMDG	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
	(,Copper metal powder)
ΙΑΤΑ	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
	(Copper metal powder)
14.3 Transport hazard class	
ADR	: 9
TDG	
Not dangerous goods	
CFR	
Not dangerous goods	
IMDG	: 9
ΙΑΤΑ	: 9
14.4 Packing group	
ADR	
Packaging group	: III
Classification Code	: M7
Hazard Identification Number	: 90
Labels	: 9
Tunnel restriction code	: (-)
TDG	
Not dangerous goods	
CFR	
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Not dangerous goods

IMDG	
Packaging group	: 111
Labels	: 9
EmS Code	: F-A, S-F
ΙΑΤΑ	
Packing instruction (cargo aircraft)	: 956
Packing instruction (passenger aircraft)	: 956
Packing instruction (LQ)	: Y956
Packaging group	: 111
Labels	: 9
14.5 Environmental hazards	
IMDG	: Marine pollutant
ADR	: Environmentally hazardous

14.6 Special precautions for user

IMDG Code- segregation group:

: IMDG Code segregation group 7 - Heavy metals and their salts

For single packagings <=5L / 5 kg, or combination packagings containing inner packagings <= 5L / 5 kg net per inner packaging, SV375 ADR, 2.10.2.7 IMDG-Code, A197 IATA-DGR may be applied.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

No data available

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SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

REACH - Candidate List of Substances of Very High	: Not applicable
Concern for Authorisation (Article 59). 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)	: Banned and/or (Poly(oxy-1,2-e hydroomega

Banned and/or restricted (Poly(oxy-1,2-ethanediyl), .alpha.nydro-.omega.-[(1-oxo-2propenyl)oxy]-, ether with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol (3:1)) (Glycerol, propoxylated, esters with acrylic acid)

15.2 Chemical safety assessment

No data available

SECTION 16: Other information

H302 H303	Harmful if swallowed.May be harmful if swallowed.
H304 H315	 May be fatal if swallowed and enters airways. Causes skin irritation.
H317	: May cause an allergic skin reaction.
H318	: Causes serious eye damage.





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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 ef	fects.
H412	: Harmful to aquatic life with long lasting effe	

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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