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

UNIPAK UV 286 001 Rich Gold

Version 4.0

Revision Date 30.01.2024

Print Date 01.02.2024

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

Gold

1.1 Product identifier

Trade name	: UNIPAK UV 286 001 Rich
Material number	: 025454N40M1

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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UNIPAK UV 286 001 Rich Gold

ersion 4.0		Revision Date 30.01.2024	Print Date 01.02.202
		Short-term (acute) aquatic hazard Long-term (chronic) aquatic haza	
GHS-Labelling			
Symbol(s)	:		
Signal word	:	Warning	
Hazard statements	:	H302: Harmful if swallowed. H317: May cause an allergic skir H319: Causes serious eye irritati H410: Very toxic to aquatic life w	on.
Precautionary statements		 P272 Contaminated work cloth of the workplace. P273 Avoid release to the environment of the workplace. P280 Wear protective gloves/ Response: P301 + P317 + P330 IF SWAR Rinse mouth. P302 + P352 IF ON SKIN: Wa P305 + P351 + P338 IF IN EY water for several minutes. Removant easy to do. Continue rinsing. P333 + P317 If skin irritation of help. P337 + P317 If eye irritation per P391 Collect spillage. Disposal: 	ter handling. ke when using this product. hing should not be allowed out fronment. eye protection/ face protection. LOWED: Get medical help. sh with plenty of water. (ES: Rinse cautiously with ve contact lenses, if present
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Hazardous components which must be listed on the label

Identification copper Fatty acids, C18-unsatd., dimers, polymers with acrylic acid, bisphenol A, epichlorohydrin and nonanoic acid	CAS-No. 7440-50-8 216689-76-8
Poly(oxy-1,2-ethanediyl), .alphahydro- .omega[(1-oxo-2-propenyl)oxy]-, ether with 2-ethyl-2-(hydroxymethyl)-1,3-	28961-43-5
propanediol (3:1) Poly(oxy-1,2-ethanediyl),a,a'-[(1- methylethylidene)di-4,1- phenylene]bis[w_hydroxy-, polymer with 1,3- diisocyanatomethylbenzene, 2-p 4,4'-lsopropylidenediphenol, ethoxylated, esters with acrylic acid and isononanoic	2146146-71-4
acid Glycerol, propoxylated, esters with acrylic acid	52408-84-1
2-Hydroxy-1-(4-(4-(2-hydroxy-2- methylpropionyl)benzyl)phenyl)-2- methylpropan-1-one	474510-57-1

SECTION 3: Composition/information on ingredients

:

Substance No.

Hazardous components

Chemical name	CAS-No.	Classification and	Concentration[%]
	EINECS-No.	labelling	
copper	7440-50-8	Acute Tox.;4;H302	25 - 50
	231-159-6	;2A;H319	
		Aquatic Acute;1;H400	

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		Aquatic Chronic;1;H4	10	
Fatty acids, C18-unsatd., dimen polymers with acrylic acid, bisphenol A, epichlorohydrin an nonanoic acid	d	Skin Sens.;1	;H317	10 - 20
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 Aquatic Chronic;3;H4		10 - 20
Poly(oxy-1,2-ethanediyl),a,a'-[(1 methylethylidene)di-4,1- phenylene]bis[w_hydroxy-, polymer with 1,3- diisocyanatomethylbenzene, 2- propenoate (ester) 3,5,5-trimethylhexanoate (ester)		Skin Sens.;1 Aquatic Chronic;2;H4		10 - 20
zinc	7440-66-6 231-175-3	Aquatic Acut Aquatic Chronic;1;H4		10 - 20
4,4'-lsopropylidenediphenol, ethoxylated, esters with acrylic acid and isononanoic acid	Not Assigned919- 846-5	Skin Sens.;1 Aquatic Chronic;2;H4		2,5 - 10
Glycerol, propoxylated, esters with acrylic acid	52408-84-1	;2A;H319 Skin Sens.;1	;H317	1 - 10
2-Hydroxy-1-(4-(4-(2-hydroxy-2- methylpropionyl)benzyl)phenyl)- 2-methylpropan-1-one		Acute Tox.;5 Acute Tox.;5 STOT RE;2;H	;H313	1 - 2,5
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		Aquatic Acute;1;H400 Aquatic Chronic;1;H410	
2,5-Cyclohexadien-1-one, 2,6- bis(1,1-dimethylethyl)-4- (phenylmethylene)-	7078-98-0	Skin Sens.;1;H317 Aquatic Chronic;4;H413	0,1 - 0,25
Propylidynetrimethanol, ethoxylated, esters with acrylic acid	28961-43-5	;2A;H319 Skin Sens.;1;H317	0,1 - 1

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.	
If inhaled	 Do not leave the victim unattend Remove to fresh air. If unconscious, place in recover advice. If symptoms persist, call a physical symptoms persist. 	ry position and seek medical
In case of skin contact	: Wash off immediately with soap and plenty of water.	
In case of eye contact	: Immediately flush eye(s) with plenty of water. Remove contact lenses.	
If swallowed	 Keep eye wide open while rinsing. If eye irritation persists, consult a specialist. 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. 	
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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

firefighting courses.	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	:	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

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.

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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 conta	ainment 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.

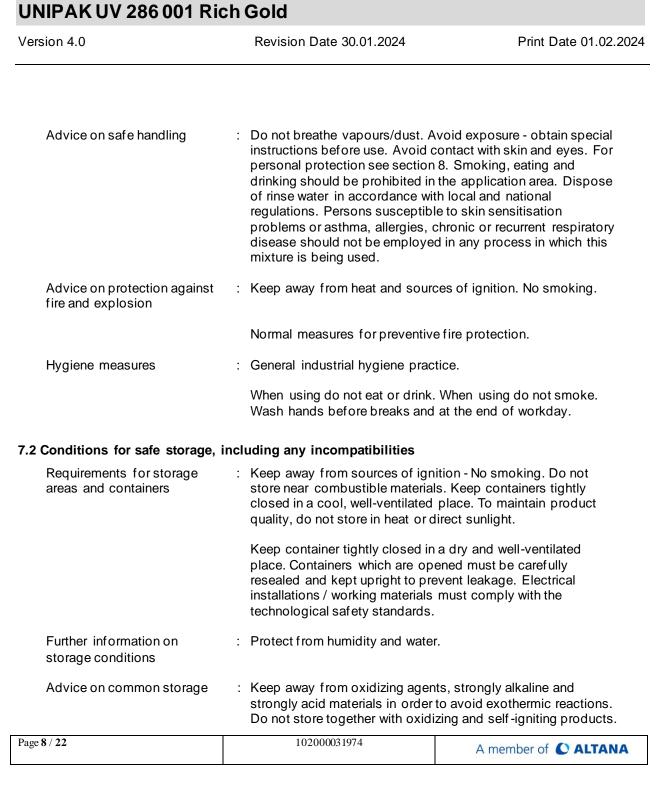
SECTION 7: Handling and storage

7.1 Precautions for safe handling

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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

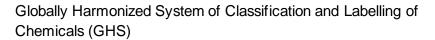
8.1 Control parameters

Germany:

Page

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: exc factor (catego		2;(II)			
Further inform	ation		ompliance with the no risk of harming t	-	ical tolerance
zinc	7440-66-6	AGW (Alveolate fraction)	1,25 mg/m3	2021-07-02	DE TRGS 900
Peak-limit: exc factor (catego		2;(II)			
Further information			ompliance with the no risk of harming t		ical tolerance
2-methyl-m- phenylene diisocyanate	91-08-7	AGW	0,005 ppm 0,035 mg/m3	2009-05-04	TRGS 430
Peak-limit: excursion		1;=4=(I)			
factor (catego	ry)				
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7440-50-8

7440-50-8

7440-66-6

7440-66-6

7440-66-6

7440-66-6

7440-66-6

7440-66-6

copper

copper

zinc

zinc

zinc

zinc

zinc

zinc

TWA (Fumes)

mist)

fraction)

fraction)

TWA (Dust and

TWA (total dust)

TWA (total dust)

TWA (respirable

TWA (respirable

PEL (Total dust)

PEL (respirable

dust fraction)

sion 4.0		Revision D	ate 30.01.2024		Print Date 01.0
Further inform	nation	established, that	t never can be ex in combination	mentary value ca xceeded. This sul with an exceeding	bstance will be
United States	of America(USA):			
Components	CAS-No.	Value type (Form of exposure)	Control parameters	Update	Basis
copper	7440-50-8	TŴA	1 mg/m3	2008-01-01	
copper	7440-50-8	TWA (dust and mists)	1 mg/m3	2005-09-01	
copper	7440-50-8	TWA	1 mg/m3	1989-01-19	
copper	7440-50-8	TWA	0,2 mg/m3	2008-01-01	
copper	7440-50-8	TWA	0,1 mg/m3	1989-01-19	
copper	7440-50-8	TWA (Dust and mist)	1 mg/m3	2010-03-01	
copper	7440-50-8	TWA (Fumes)	0,2 mg/m3	2010-03-01	
copper	7440-50-8	TWA (Dust)	1 mg/m3	2013-10-08	
copper	7440-50-8	TWA (Mist)	1 mg/m3	2013-10-08	
copper	7440-50-8	TWA (dusts and mists)	1 mg/m3	2011-07-01	
copper	7440-50-8	TWA (Fumes)	0,1 mg/m3	2011-07-01	
copper	7440-50-8	PEL (Fumes)	0,1 mg/m3	2014-11-26	
	7440 50 0		0.4	4000 04 40	

0,1 mg/m3

50 Million particles

15 Million particles

per cubic foot

per cubic foot

10 mg/m3

5 mg/m3

15 mg/m3

5 mg/m3

1 mg/m3

1989-01-19

1989-01-19

2012-07-01

2012-07-01

2012-07-01

2012-07-01

2014-11-26

2014-11-26

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8.2 Exposure controls

Personal protective equip	nt	
Eye protection	 Safety glasses Tightly fitting safety goggles Wear face-shield and protective suit for abnormal processin problems. 	ıg
Hand protection		
Material	: Solvent-resistant gloves (butyl-rubber)	
Remarks	: Take note of the information given by the producer concern permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact	Ũ
	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.	Í
	: The suitability for a specific workplace should be discussed with the producers of the protective gloves.	l
Skin and body protection	: Impervious clothing	
	Choose body protection according to the amount and concentration of the dangerous substance at the work place	э.
Respiratory protection	: Use suitable breathing protection if workplace concentration requires.	٦
	Equipment should conform to EN 14387	

Environmental exposure controls

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General advice	 The product should not be allowed to courses or the soil. Prevent product from entering drains. Prevent further leakage or spillage if s If the product contaminates rivers and respective authorities. 	safe to do so.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	: liquid
Colour	: gold
Odour	: characteristic
рН	: substance/mixture is non-soluble (in water)
Melting point/range	: Not applicable
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/cm3
Solubility(ies)	
Water solubility	: insoluble
Miscibility with water	: immiscible

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Solubility in other solvents	: No data available
Partition coefficient: n-octanol/water	: No data available
Ignition temperature	: No data available
Thermal decomposition	: No data available
Viscosity, dynamic	: No data available
Viscosity, kinematic	: No data available
Flow time	: No data available

9.2 Other information

No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

No decomposition if stored and applied as directed.

10.2 Chemical stability

No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

Hazardous reactions	: Stable under recommended storage conditions.	
	No decomposition if stored and applied as directed.	
10.4 Conditions to avoid		
Conditions to avoid	: Do not allow evaporation to dryness. No data available	
10.5 Incompatible materials		
Materials to avoid	: No data available	

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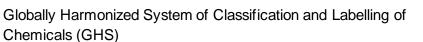


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10.6 Hazardous decomposition	products	
Hazardous decomposition	:	
products Other information	: Carbon monoxide, carbon diox hydrocarbons (smoke).	ide and unburned
SECTION 11: Toxicological in	nformation	
11.1 Information on toxicologica	al effects	
Acute toxicity		
Components:		
copper :		
Acute oral toxicity	: The component/mixture is mod ingestion.	erately toxic after single
2-Hydroxy-1-(4-(4-(2-hydroxy-2-n Acute oral toxicity	nethylpropionyl)benzyl)phenyl)-2-r : LD50 Rat: >2 000 mg/kg	methylpropan-1-one:
Acute dermal toxicity	: LD50 Rat: > 2 000 mg/kg	
Skin corrosion/irritation		
Product		
May cause skin irritation and/	or dermatitis.	
Serious eye damage/eye irritatio	on	
<u>Product</u>		
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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

Aspiration toxicity

No data available

Further information

Product

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No data available

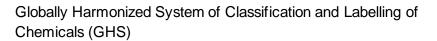
SECTION 12: Ecological information

12.1 Toxicity

2-Hydroxy-1-(4-(4-(2-hydro (474510-57-1) :	oxy-2-methylpropionyl)benzyl)phenyl)-2-methylpropan-1-one	
hazard Long-term (chronic) aquatic hazard	: Very toxic to aquatic life with long lasting effects.	
Short-term (acute) aquatic	: Very toxic to aquatic life.	
Ecotoxicology Assessme	nt	
Long-term (chronic) aquatic hazard zinc (7440-66-6) :	: Toxic to aquatic life with long lasting effects.	
Ecotoxicology Assessme	nt	
hazard Poly(oxy-1,2-ethanediyl),a	 Harmful to aquatic life with long lasting effects. ,a'-[(1-methylethylidene)di-4,1-phenylene]bis[w_hydroxy-, polymbol hylbenzene, 2-p (2146146-71-4) : 	mer
Ecotoxicology Assessme	nt	
	.alphahydroomega[(1-oxo-2-propenyl)oxy]-, ether with 2-eth anediol (3:1) (28961-43-5) :	yl-2-
Long-term (chronic) aquatic hazard	: Very toxic to aquatic life with long lasting effects.	
Short-term (acute) aquatic hazard	: Very toxic to aquatic life.	
copper (7440-50-8) : M-Factor Ecotoxicology Assessme	: 10 nt	
Components:		

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M-Factor Ecotoxicology Assessment	:	1
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.

SECTION 13: Disposal considerations

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13.1 Waste treatment methods

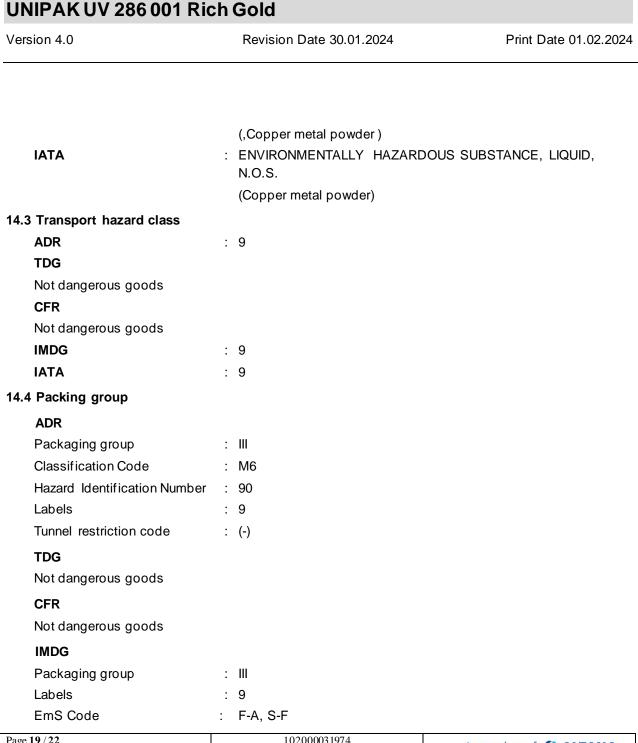
Product	 The product should not be allowed to enter drains, water courses or the soil. Do not contaminate ponds, waterways or ditches with chemical or used container.
Contaminated packaging	Send to a licensed waste management company. : Empty remaining contents. Dispose of as unused product. Do not re-use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

SECTION 14: Transport information

14.1 UN number	
ADR	: 3082
TDG	
Not dangerous goods	
CFR	
Not dangerous goods	
IMDG	: 3082
ΙΑΤΑ	: 3082
14.2 Proper shipping name	
ADR	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
	(Copper metal powder)
TDG	
Not dangerous goods	
CFR	
Not dangerous goods	
IMDG	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
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IATA

Packing instruction (cargo aircraft)	: 964
Packing instruction (passenger aircraft)	: 964
Packing instruction (LQ)	: Y964
Packaging group	: 111
Labels	: 9
14.5 Environmental hazards	
ADR	: Environmentally hazardous

IMDG	: Marine pollutant

14.6 Special precautions for user

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

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

No data available

SECTION 15: Regulatory information

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

REACH - Candidate List of Su	, .	: Not	applicable
Concern for Authorisation (Arti REACH - List of substances s	,	: Not	applicable
(Annex XIV) Regulation (EC) No 1005/2009	on substances that	: Not	applicable
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deplete the ozone layer Regulation (EU) 2019/1021 o pollutants (recast) REACH - Restrictions on the		Not applicable
the market and use of certain mixtures and articles (Annex	XVII) ¯	
REACH - Restrictions on the the market and use of certain mixtures and articles (Annex	dangerous substances,	Banned and/or restricted (Fatty acids, C18-unsatd., dimers, polymers with acrylic acid, bisphenol A, epichlorohydrin and nonanoic acid) (Poly(oxy-1,2-ethanediyl), .alpha hydroomega[(1-oxo-2- propenyl)oxy]-, ether with 2-ethyl-2- (hydroxymethyl)-1,3-propanediol (3:1)) (Poly(oxy-1,2-ethanediyl),a,a'-[(1- methylethylidene)di-4,1- phenylene]bis[w_hydroxy-, polymer with 1,3- diisocyanatomethylbenzene, 2-p) (Glycerol, propoxylated, esters with acrylic acid) (2,6-bis(1,1-dimethylethyl)-4- (phenylenemethylene)cyclohexa- 2,5-dien-1-one) (Propylidynetrimethanol, ethoxylated, esters with acrylic acid)

15.2 Chemical safety assessment

No data available

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SECTION 16: Other information

Full text of H-Statements		
H302	:	Harmful if swallowed.
H303	:	May be harmful if swallowed.
H313	:	May be harmful in contact with skin.
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.
H413	:	May cause long lasting harmful effects to aquatic life.

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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