according to Regulation (EC) No. 1907/2006



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

1.1 Product identifier		
Trade name	:	UNIPAK UV 286 877 LITHO INK
Product code	:	026286N20

1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the	:	Colorant; Printing ink related material; Printing ink, Colouring
Substance/Mixture		agents, dyes

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.co	<u>m</u>

1.4 Emergency telephone number

NCEC: +44 1235 239670 (Europe) Call and response in your language is possible. Contract no.: ECKART29003-NCEC.

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Skin irritation, Category 2 Eye irritation, Category 2 Skin sensitisation, Category 1 Long-term (chronic) aquatic hazard, Category 2 H315: Causes skin irritation. H319: Causes serious eye irritation. H317: May cause an allergic skin reaction.

H411: Toxic to aquatic life with long lasting effects.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

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Hazard pictograms			
word	:	Warning	×
d statements	:	H315 H317 H319 H411	Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Toxic to aquatic life with long lasting effects.
utionary statements	:	Prevention: P261 P264 P273 P280	Avoid breathing mist or vapours. Wash skin thoroughly after handling. Avoid release to the environment. Wear protective gloves/ eye protection/ face protection.
		P333 + P313	If skin irritation or rash occurs: Get medical advice/ attention. Collect spillage.
	d pictograms I word d statements utionary statements	l word : d statements :	I word : Warning I word : Warning I word : H315 H317 H319 H411 utionary statements : Prevention: P261 P264 P273 P280 Response:

Hazardous components which must be listed on the label:

 $\label{eq:poly} Poly(oxy-1,2-ethanediyl), a,a'-[(1-methylethylidene)di-4,1-phenylene] bis[w_hydroxy-, polymerwith 1,3-$

diisocyanatomethylbenzene, 2-propenoate

(ester) 3,5,5-trimethylhexanoate (ester)

Fatty acids, C18-unsatd., dimers, polymers with acrylic acid, bisphenol A, epichlorohydrin and nonanoic acid

4,4'-Isopropylidenediphenol, ethoxylated, esters with acrylic acid and isononanoic acid Propylidynetrimethanol, ethoxylated, esters with acrylic acid

Glycerol, propoxylated, esters with acrylic acid

(1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] diacrylate

2,6-bis(1,1-dimethylethyl)-4-(phenylenemethylene)cyclohexa-2,5-dien-1-one

tris(N-hydroxy-N-nitrosophenylaminato-O,O')aluminium

2-methyl-m-phenylene diisocyanate

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

Components

Chemical name		ClassificationREGUL ATION (EC) No	Concentration (% w/w)
	Index-No.	1272/2008	

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			Registration num	nhor		
methy pheny polym diisoo prope	oxy-1,2-ethanediyl),a,a ylethylidene)di-4,1- ylene]bis[w_hydroxy-, ner with 1,3- cyanatomethylbenzene enoate r) 3,5,5-trimethylhexan r)	, 2-	2146146-71-4	S	Skin Sens. 1B; H317 Aquatic Chronic 2; 1411	>= 20 - < 25
polym bisph	acids, C18-unsatd., din ners with acrylic acid, enol A, epichlorohydrir noic acid		216689-76-8	S	6kin Sens. 1; H317	>= 10 - < 20
ethox	sopropylidenediphenol ylated, esters with acry and isononanoic acid		Not Assigned 919-846-5	A	Skin Sens. 1B; H317 Aquatic Chronic 2; H411	>= 10 - < 20
	/lidynetrimethanol, ylated, esters with acry	/lic	28961-43-5 500-066-5 01-2119489900-	S	ye Irrit. 2; H319 Skin Sens. 1; H317	>= 10 - < 20
alumi	nium powder (stabilise	d)	7429-90-5 231-072-3 013-002-00-1 01-2119529243-	F	Flam. Sol. 1; H228	>= 10 - < 20
	erol, propoxylated, este acrylic acid	rs	52408-84-1 500-114-5	E	Eye Irrit. 2; H319 Skin Sens. 1; H317	>= 1 - < 10
ethan	ethyl-1,2- lediyl)bis[oxy(methyl-2, lediyl)] diacrylate	,1-	42978-66-5 256-032-2 607-249-00-X 01-2119484613	E S S	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1; H317 STOT SE 3; H335 Respiratory system)	>= 2.5 - < 10

limit STOT SE 3; H335 >= 10 % STOT SE 3; H335 >= 10 % 2-hydroxy-1-(4-(4-(2-hydroxy-2-474510-57-1 STOT RE 2; H373 >= 1 - < 2.5 methylpropionyl)benzyl)phenyl)-2-444-860-9 Aquatic Acute 1; methylpropan-1-one 606-140-00-4 H400 Aquatic Chronic 1; H410 01-2119904050-59

Aquatic Chronic 2;

specific concentration

H411

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rsion		DS Number: 02000033578	Print Date: 09.12.2023 Date of first issue: 15.10.2020)
			M-Factor (Acute aquatic toxicity): 1 M-Factor (Chronic aquatic toxicity): 1	
dode	cylphosphonic acid	5137-70-2 225-897-8	Skin Corr. 1B; H314 Eye Dam. 1; H318 STOT RE 2; H373 (Kidney) Aquatic Chronic 3; H412	>= 1 - < 2
2,6-d	i-tert-butyl-p-cresol	128-37-0 204-881-4	Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 1 M-Factor (Chronic aquatic toxicity): 1	>= 0.1 - < 0
(pher	is(1,1-dimethylethyl)-4- hylenemethylene)cyclohexa ien-1-one	7078-98-0 - 429-460-4 606-117-00-9	Skin Sens. 1; H317 Aquatic Chronic 4; H413	>= 0.1 - < 0
nitros	l-hydroxy-N- sophenylaminato- aluminium	15305-07-4 239-341-7	Acute Tox. 4; H302 Skin Sens. 1B; H317 Aquatic Chronic 1; H410	>= 0.1 - < 0
	thyl-m-phenylene cyanate	91-08-7 202-039-0 615-006-00-4	Acute Tox. 2; H330 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Resp. Sens. 1; H334 Skin Sens. 1; H317 Carc. 2; H351 STOT SE 3; H335 (Respiratory system) Aquatic Chronic 3; H412	>= 0.0025 0.025
			specific concentration limit Resp. Sens. 1; H334 >= 0.1 % Resp. Sens. 1; H334 >= 0.1 %	

For explanation of abbreviations see section 16.

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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 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 clothes, remove clothes.			
In case of eye contact	: Immediately flush eye(s) with plenty of water.			
	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. 			

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	:	Dry sand ABC powder Foam
Unsuitable extinguishing media	:	High volume water jet Carbon dioxide (CO2)

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			High volume wate	er jet	
5.2 Specia	I hazards arising from	the	e substance or mi	xture	
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		:	must not be disch Fire residues and be disposed of in Use extinguishing	ated fire extinguishing water separately. This harged into drains. I contaminated fire extinguishing water must accordance with local regulations. If measures that are appropriate to local ad the surrounding environment.	

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions	:	Evacuate personnel to safe areas. Use personal protective equipment.
6.2 Environmental precautions	5	
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.
6.3 Methods and material for c	ontai	nment and cleaning up
Methods for cleaning up	:	Use mechanical handling equipment.

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). 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	3	
	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	:	Normal measures for preventive fire protection.
	Hygiene measures	:	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, i	nclu	uding any incompatibilities
	Requirements for storage areas and containers	:	Earthing of containers and apparatuses is essential. Reaction with water liberates extremely flammable gas (hydrogen) Take measures to prevent the build up of electrostatic charge. Use explosion-proof equipment. Store in original container. Keep containers tightly closed in a cool, well-ventilated place. Keep away from sources of ignition - No smoking. Keep container closed when not in use.
			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	:	Do not store near acids. Do not store together with oxidizing and self-igniting products. Never allow product to get in contact with water during storage. Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.
	Further information on storage stability	:	No decomposition if stored and applied as directed.

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7.3 Specific end use(s)

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis		
aluminium powder (stabilised)	7429-90-5	TWA (Inhalable)	10 mg/m3	GB EH40		
		TWA (Respirable fraction)	4 mg/m3	GB EH40		
		TWA (inhalable dust)	10 mg/m3	GB EH40		
	dust) Further information: For the purposes of these limits, respirable dust and inhalable dust are those fractions of airborne dust which will be collected when sampling is undertaken in accordance with the methods described MDHS14/4 General methods for sampling and gravimetric analysis or respirable, thoracic and inhalable aerosols., The COSHH definition of a substance hazardous to health includes dust of any kind when present at 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 thany dust will be subject to COSHH if people are exposed to dust above the levels. Some dusts have been assigned specific WELs and exposure to t must comply with the appropriate limits., Most industrial dusts contain particles of a wide range of sizes. The behaviour, deposition and fate of a particular particle after entry into the human respiratory system, and the tresponse that it elicits, depend on the nature and size of the particle. HSI distinguishes two size fractions for limit-setting purposes termed 'inhalable and 'respirable'., Inhalable dust approximates to the fraction of airborne material that enters the nose and mouth during breathing and is therefore available for deposition in the respiratory tract. Respirable dust approxim to the fraction that penetrates to the gas exchange region of the lung. Ful definitions and explanatory material are given in MDHS14/4., Where dust contain components that have their own assigned WEL, all the relevant li should be complied with., Where no specific short-term exposure limit is a figure three times the long-term exposure limit should be used.					
	dust) Image: state of the section o					
	inhalable dust are those fractions of airborne dust which will be collected when sampling is undertaken in accordance with the methods described in MDHS14/4 General methods for sampling and gravimetric analysis or respirable, thoracic and inhalable aerosols., 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., Most industrial dusts contain					

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	p r c a n a t c c s a a	barticular parti response that distinguishes t and 'respirable material that e available for d o the fraction definitions and contain compo should be com a figure three	icle after entry into it elicits, depend of two size fractions f e'., Inhalable dust a enters the nose and eposition in the re- that penetrates to d explanatory mate onents that have the point that nove the point of the the the the the the point of the the the the the point of the the the the the point of the the the the the the point of the the the the the the point of the the the the the the the the point of the the the the the the the the point of the the the the the the the the the point of the	s. The behaviour, deposition ar the human respiratory system n the nature and size of the pa or limit-setting purposes terme approximates to the fraction of d mouth during breathing and is spiratory tract. Respirable dust the gas exchange region of the trial are given in MDHS14/4., W heir own assigned WEL, all the e no specific short-term exposu n exposure limit should be use	, and the body rticle. HSE d 'inhalable' airborne s therefore approximates e lung. Fuller /here dusts relevant limits re limit is listed,	
2,6-d cresc	<i>,</i>	128-37-0	TWA	10 mg/m3	GB EH40	
		Further information: Where no specific short-term exposure limit is listed, a figure three times the long-term exposure limit should be used.				

Substance name	End Use	Exposure routes	Potential health effects	Value
Propylidynetrimethan ol, ethoxylated, esters with acrylic acid	Workers	Inhalation	Long-term systemic effects	16.2 mg/m3
-	Workers	Skin contact	Long-term systemic effects	0.8 mg/kg
	Consumers	Inhalation	Long-term systemic effects	4.9 mg/m3
	Consumers	Skin contact	Long-term systemic effects	0.48 mg/kg
	Consumers	Oral	Long-term systemic effects	1.39 mg/kg
aluminium powder (stabilised)	Workers	Inhalation	Long-term systemic effects	3.72 mg/m3
	Workers	Inhalation	Long-term local effects	3.72 mg/m3
	Consumers	Oral	Long-term systemic effects	3.95 mg/kg
Glycerol, propoxylated, esters with acrylic acid	Workers	Inhalation	Long-term systemic effects	16.22 mg/m3
	Workers	Dermal	Long-term systemic effects	1.92 mg/kg
	Consumers	Inhalation	Long-term systemic effects	4.87 mg/m3
	Consumers	Dermal	Long-term systemic effects	1.15 mg/kg
	Consumers	Oral	Long-term systemic effects	1.39 mg/kg
(1-methyl-1,2- ethanediyl)bis[oxy(me thyl-2,1-ethanediyl)]	Workers	Skin contact	Long-term systemic effects	1.7 mg/kg

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dia	acrylate			
		Workers	Inhalation	Long-term systemic 2.94 mg/m3 effects
	6-di-tert-butyl-p- esol	Workers	Inhalation	Long-term systemic 0.78 mg/m3 effects
		Workers	Dermal	Long-term systemic 0.5 mg/kg effects
		Consumers	Inhalation	Long-term systemic 0.435 mg/m3 effects
		Consumers	Dermal	Long-term systemic 0.25 mg/kg effects
		Consumers	Oral	Long-term systemic 0.25 mg/kg effects

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

Substance name	Environmental Compartment	Value
Propylidynetrimethanol, ethoxylated, esters with acrylic	Soil	0.00644 mg/kg
acid		
	Fresh water	0.00195 mg/l
	Fresh water sediment	0.038 mg/kg
	STP	10 mg/l
	Marine water	0.000195 mg/l
	Marine sediment	0.0038 mg/kg
	Intermittent Release	0.00195 mg/l
	Intermittent water release	0.0195 mg/l
aluminium powder (stabilised)	Fresh water	0.0749 mg/l
	clarification plant	20 mg/l
Glycerol, propoxylated, esters with acrylic acid	Fresh water	0.0057 mg/l
	Marine water	0.00057 mg/l
	Fresh water sediment	0.0168 mg/kg
	Marine sediment	0.00168 mg/kg
	STP	10 mg/l
	Soil	0.0011 mg/kg
(1-methyl-1,2- ethanediyl)bis[oxy(methyl-2,1- ethanediyl)] diacrylate	Soil	0.002 mg/kg
	Fresh water	0.007 mg/l
	Fresh water sediment	0.033 mg/kg
	STP	100 mg/l
	Marine water	0.0007 mg/l
	Marine sediment	0.003 mg/kg
2,6-di-tert-butyl-p-cresol	Fresh water	0.199 µg/l
	Marine water	0.02 µg/l
	STP	0.017 mg/l
	Fresh water sediment	0.0996 mg/kg
	Marine sediment	0.00996 mg/kg
	Soil	0.054 mg/kg
	Secondary Poisoning	8.33 mg/kg

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			oral (seconda	ry poisoning)	16.67 mg/kg		
8.2 Expos	sure controls						
Pers	onal protective equip	ment					
Eye/f	ace protection		Goggles Tightly fitting sa Wear face-shie problems.		or abnormal processing		
Hand	I protection						
М	aterial	: :	Solvent-resistant gloves (butyl-rubber)				
R	emarks		concerning per special workpla contact). The e the protective g Please observe breakthrough ti gloves. Also tal conditions unde danger of cuts, Recommended washed after co	xact break through tim love producer and this the instructions regar me which are provided the into consideration the er which the product is abrasion, and the con preventive skin protect	rough times, and of nical strain, duration of the can be obtained from a has to be observed. ding permeability and d by the supplier of the ne specific local used, such as the tact time. ction Skin should be or a specific workplace		
	and body protection		concentration o	rotection according to f the dangerous subst	ance at the work place.		
Resp	iratory protection		Use suitable br requires.	eathing protection if w	orkplace concentration		

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form	:	liquid
Colour	:	silver
Odour	:	characteristic
Odour Threshold	:	No data available
Melting point/range	:	Not applicable
Boiling point/boiling range	:	> 100 °C

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	Flamm	ability	:	No data available	9
		explosion limit / Upper ability limit	:	No data available)
		explosion limit / Lower ability limit	:	No data available)
	Flash p	point	:	> 100 °C	
	Auto-ig	nition temperature	:	No data available)
	Decom	position temperature	:	No data available	
	рН		:	substance/mixtur	e is non-soluble (in water)
	Viscosi	ty, kinematic	:	No data available	
		ity(ies) solubility ity in other solvents	:	insoluble No data available	9
	Partitio octano	n coefficient: n- l/water	:	No data available	
		pressure	:	No data available	
	Prop	Pressure for Compone ylidynetrimethanol, xylated, esters with lic acid	nts: :	0.0032 Pa (20 °	C)
	Glyc	erol, propoxylated, rs with acrylic acid	:		C) Test Guideline 104
	etha	ethyl-1,2- nediyl)bis[oxy(methyl-	:	< 0.01 hPa (20 °	C)
	2-me	ethanediyl)] diacrylate ethyl-m-phenylene cyanate	:	2.78 Pa (25 °C)	
		e density	:	No data available	
	Density	/	:	1.1 g/cm3	
	Relativ	e vapour density	:	No data available)
		e characteristics ticle Size Distribution	:	No data available	9
9.2		n formation a available			

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SECTION	N 10: Stability and	reactiv	/ity		
10.1 Read	ctivity				
No de	ecomposition if stored	and ap	plied as directe	d.	
10.2 Cher	nical stability				
No de	ecomposition if stored	and ap	plied as directe	d.	
10.3 Poss	bility of hazardous	reactio	ons		
Hazardous reactions		:	Contact with acids and alkalis may release hydrogen.		
			No decompos	ition if stored and applied as directed.	
10.4 Cond	ditions to avoid				
Cond	litions to avoid	:	Do not allow e	vaporation to dryness.	
			No data availa	ble	
10.5 Incoi	mpatible materials				
	rials to avoid	:	Acids Bases Oxidizing ager	nts	

10.6 Hazardous decomposition products

This information is not available.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Not classified based on available information.

Components:

aluminium powder (stabilised):

Acute inhalation toxicity	: LC50 (Rat): > 5 mg/l
	Exposure time: 4 h
	Test atmosphere: dust/mist

(1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] diacrylate:

Acute oral toxicity	: (Rat): 2,000 mg/kg
Acute inhalation toxicity	: (Rat): 0.000545 mg/l Exposure time: 7 h Test atmosphere: vapour
Acute dermal toxicity	: (Rabbit): 2,000 mg/kg

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		Method: OI	ECD Test Guideline 402
2-hyc	lroxy-1-(4-(4-(2-hydr		ionyl)benzyl)phenyl)-2-methylpropan-1-one:
Acute	oral toxicity	: LD50 (Rat)	: > 2,000 mg/kg
Acute	e dermal toxicity	: LD50 (Rat)	: > 2,000 mg/kg
2,6-d i	i-tert-butyl-p-cresol:		
Acute	oral toxicity		: > 5,000 mg/kg ECD Test Guideline 401
Acute	e dermal toxicity		: > 5,000 mg/kg ECD Test Guideline 402
tris(N	l-hydroxy-N-nitrosoj	ohenylaminato-O,	O')aluminium:
Acute	oral toxicity	: Assessmer single inges	nt: The component/mixture is moderately toxic after stion.
2-me	thyl-m-phenylene di	isocyanate:	
Acute	inhalation toxicity	: Assessmer term inhala	nt: The component/mixture is highly toxic after sho tion.
-	corrosion/irritation es skin irritation.		
Prod			
Rema		: May cause	skin irritation and/or dermatitis.
<u>Com</u>	oonents:		
(1-me	ethyl-1,2-ethanediyl)	bis[oxy(methyl-2, [,]	1-ethanediyl)] diacrylate:
Resu	lt	: Skin irritatio	on
2-me	thyl-m-phenylene di	isocyanate:	
Resu	lt	: Skin irritatio	on
	us eye damage/eye		
Cause	es serious eye irritatio	n.	
Produ			
Rema	arks	: May cause	irreversible eye damage.
<u>Com</u>	oonents:		
Prop	ylidynetrimethanol, o	ethoxylated, ester	s with acrylic acid:
Resu	lt	: Irritating to	eyes.

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rsion	Revision Date: 08.12.2023	SDS Number: 102000033578	Print Date: 09.12.2023 Date of first issue: 15.10.2020
•		esters with acrylic a	
Resu	It	: Eye irritation	
(1-me	thyl-1,2-ethanediyl	bis[oxy(methyl-2,1-	ethanediyl)] diacrylate:
Resu	lt	: Eye irritation	
tris(N	l-hydroxy-N-nitroso	phenylaminato-O,O')aluminium:
Resu		No eye irritati	-
2-me	thyl-m-phenylene d	iisocvanate:	
Resu		: Eye irritation	
Posn	iratory or skin sens	itication	
-	sensitisation	itisation	
	cause an allergic skir	reaction.	
Resp	iratory sensitisation	ı	
Not c	lassified based on av	ailable information.	
<u>Prod</u>			
Rema	arks	: Causes sens	itisation.
<u>Com</u>	oonents:		
Poly(0 1,3-	oxy-1,2-ethanediyl),a	a'-[(1-methylethyliden,	ne)di-4,1-phenylene]bis[w_hydroxy-, polymer v
diisoo	yanatomethylbenzer	ie, 2-propenoate	
(ester) 3,5,5-trimethylhexa	noate (ester)	
:			
Resu	lt	: Probability or rate in humar	evidence of low to moderate skin sensitisation
	acids, C18-unsatd. Ionanoic acid:	, dimers, polymers v	vith acrylic acid, bisphenol A, epichlorohyd
Resu	lt	: May cause se	ensitisation by skin contact.
Prop	ylidynetrimethanol.	ethoxylated, esters	with acrylic acid:
Resu		-	ensitisation by skin contact.
Rema	arks	: Causes sens May cause se	itisation. ensitisation of susceptible persons by skin

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Glyce	erol, propoxvlated, e	sters with acrylic ac	id:
Resu		•	nsitisation by skin contact.
•		ohenylaminato-O,O')	
Resu	IT	: The product is	a skin sensitiser, sub-category 1B.
2-me	thyl-m-phenylene di	socyanate:	
Resu		-	nsitisation by skin contact.
Resu	lt	: May cause se	nsitisation by inhalation.
Germ	n cell mutagenicity		
Not c	lassified based on ava	ailable information.	
	i nogenicity lassified based on ava	ailable information.	
Com	ponents:		
	thyl-m-phenylene di	socvanate	
Carci	nogenicity - ssment	-	ce of carcinogenicity in animal studies
•	oductive toxicity lassified based on ava	ailable information.	
STO	Γ - single exposure		
	lassified based on ava	ailable information.	
Com	ponents:		
2-me	thyl-m-phenylene di	socvanate:	
	ssment	-	spiratory irritation.
	Γ - repeated exposur lassified based on ava		
<u>Com</u>	ponents:		
•	droxy-1-(4-(4-(2-hydr ssment	: The substance	ayl)benzyl)phenyl)-2-methylpropan-1-one: e or mixture is classified as specific target orga ated exposure, category 2.
dode	cylphosphonic acid:		
Targe	et Organs ssment	: Kidney : The substance	e or mixture is classified as specific target orga ated exposure, category 2.

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-	ration toxicity classified based on ava	ailable informatio	on.	
11.2 Infor	mation on other haz	ards		
Furth	ner information			
<u>Prod</u> Rema		: No data	available	
<u>Com</u>	ponents:			
dode	cylphosphonic acid	:		
Rema	arks	: No data	available	
	N 12: Ecological in	formation		
12.1 Toxi	спу			

Components:

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)

:

Ecotoxicology Assessment

Chronic aquatic toxicity : Toxic

: Toxic to aquatic life with long lasting effects.

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

M-Factor (Short-term (acute) aquatic hazard) M-Factor (Long-term (chronic) aquatic hazard)	:	
Ecotoxicology Assessment		
Acute aquatic toxicity	:	Very toxic to aquatic life.
Chronic aquatic toxicity	:	Very toxic to aquatic life with long lasting effects.
dodecylphosphonic acid:		
Ecotoxicology Assessment Chronic aquatic toxicity	:	Harmful to aquatic life with long lasting effects.

2,6-di-tert-butyl-p-cresol:

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aqua M-Fa	actor (Short-term (acute) atic hazard) actor (Long-term onic) aquatic hazard)	: 1 : 1		
	e aquatic toxicity	: Very toxic to aquatic life.		
Chro	nic aquatic toxicity	: Very toxic to a	quatic life with long lasting effects.	
tris(N-hydroxy-N-nitrosophe	enylaminato-O,O')a	aluminium:	
	oxicology Assessment onic aquatic toxicity	: Very toxic to a	quatic life with long lasting effects.	
2-me	ethyl-m-phenylene diiso	cyanate:		
	oxicology Assessment onic aquatic toxicity	: Harmful to aqu	atic life with long lasting effects.	
	sistence and degradabil ata available	ity		
12.3 Bioa	accumulative potential			
Com	ponents:			
Poly 1,3-	(oxy-1,2-ethanediyl),a,a'-[(1-methylethylidene	e)di-4,1-phenylene]bis[w_hydroxy-, polymer with	
diiso	cyanatomethylbenzene, 2	2-propenoate		
(este	er) 3,5,5-trimethylhexanoa	ate (ester)		
	tion coefficient: n- nol/water	: Pow: 1.49 - 4.7 Method: OECI	74 D Test Guideline 117	
Glyc	erol, propoxylated, este	ers with acrylic aci	d:	
	tion coefficient: n- nol/water	: log Pow: 2.52 Method: OECI	(23 °C) D Test Guideline 107	
2-me	ethyl-m-phenylene diiso	cyanate:		
	tion coefficient: n- nol/water	: log Pow: 3.74		
	ility in soil ata available			

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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 Endocrine disrupting properties

No data available

12.7 Other adverse effects

Product:

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

Components:

Glycerol, propoxylated, esters with acrylic acid:

Additional ecological information	:	No data available
dodecylphosphonic acid: Additional ecological information	:	An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Harmful to aquatic life with long lasting effects.

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

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SECTION 14: Transport information						
14.1 UN number or ID numbe	er					
ADR	:	UN 3082				
IMDG	:	UN 3082				
ΙΑΤΑ	:	UN 3082				
14.2 UN proper shipping nar	ne					
ADR	:	N.O.S.	TALLY HAZARDOUS SUBSTANCE, LIQUID, denediphenol, ethoxylated, esters with acrylic nanoic acid)			
IMDG	:	N.O.S.	TALLY HAZARDOUS SUBSTANCE, LIQUID, denediphenol, ethoxylated, esters with acrylic nanoic acid)			
ΙΑΤΑ	:		y hazardous substance, liquid, n.o.s. denediphenol, ethoxylated, esters with acrylic nanoic acid)			
14.3 Transport hazard class	es)					
		Class	Subsidiary risks			
ADR	:	9				
IMDG	:	9				
ΙΑΤΑ	:	9				
14.4 Packing group						
ADR Packing group Classification Code Hazard Identification Num Labels Tunnel restriction code	: iber : :	III M6 90 9 (-)				
IMDG Packing group Labels EmS Code	:	III 9 F-A, S-F				
IATA (Cargo) Packing instruction (cargo aircraft) Packing instruction (LQ) Packing group Labels IATA (Passenger)) : : : :	964 Y964 III 9				



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	Packing instruction	:	964	
I	Packing instruction (LQ)	:	Y964	
I	Packing group	:	III	
I	_abels	:	9	
14.5 Environmental hazards				
-	ADR Environmentally hazardous	:	ves	
			y	
	MDG Marine pollutant	:	yes	
14.6 Special precautions for user				
I	Remarks	:	packagings conta	jings <=5L / 5 kg, or combination ining inner packagings <= 5L / 5 kg net per SV375 ADR, 2.10.2.7 IMDG-Code, A197

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

IATA-DGR may be applied.

14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

SECTION 15: Regulatory information

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

Relevant EU provisions transposed through retained EU law

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII)	 Conditions of restriction for the following entries should be considered: Number on list 3 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) (Number on list 3) Fatty acids, C18-unsatd., dimers, polymers with acrylic acid, bisphenol A, epichlorohydrin and nonanoic acid (Number on list 3) Propylidynetrimethanol, ethoxylated,
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				esters with acrylic acid (Number on list 3) aluminium powder (stabilised) (Number on list 40) Glycerol, propoxylated, esters with acrylic acid (Number on list 3) (1-methyl-1,2- ethanediyl)bis[oxy(methyl-2,1- ethanediyl)] diacrylate (Number on list 3) 2,6-bis(1,1-dimethylethyl)-4- (phenylenemethylene)cyclohexa- 2,5-dien-1-one (Number on list 3)
	KREACH Candidate list of ncern (SVHC) for Authorisa	, ,	n :	Not applicable
Th R€	e Persistent Organic Pollut egulation (EU) 2019/1021 a itain)	tants Regulations (retai	ned :	Not applicable
Re	egulation (EC) No 1005/200	9 on substances that	:	Not applicable
Uł	REACH List of substance	s subject to authorisation	on :	Not applicable

15.2 Chemical safety assessment

No data available

SECTION 16: Other information

Full text of H-Statements

H228 :	Flammable solid.
H302 :	Harmful if swallowed.
H314 :	Causes severe skin burns and eye damage.
H315 :	Causes skin irritation.
H317 :	May cause an allergic skin reaction.
H318 :	Causes serious eye damage.
H319 :	Causes serious eye irritation.
H330 :	Fatal if inhaled.
H334 :	May cause allergy or asthma symptoms or breathing
	difficulties if inhaled.
H335 :	May cause respiratory irritation.
H351 :	Suspected of causing cancer.
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.
Full text of other abbreviations	i

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Carc. Eye Da Eye Irrit Flam. S Resp. S Skin Co Skin Irri Skin Se STOT F STOT S GB EH4	Acute Chronic m. Jol. Sens. Jorr. t. Sens. RE SE	Specific target or UK. EH40 WEL -	c) aquatic hazard age tisation

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; 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; TECI - Thailand Existing Chemicals 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

Classification of the mixture:

Classification procedure:

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Skin I	Irrit. 2	H315	Calculation method
Eye Irrit. 2		H319	Calculation method
Skin Sens. 1		H317	Calculation method
Aqua	tic Chronic 2	H411	Calculation method

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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