1.1 Product identifier

according to Regulation (EC) No. 1907/2006



UNIPAK UV 286 004 SILVER

Version	Revision Date:	SDS Number:	Print Date: 09.12.2023
5.1	08.12.2023	102000033578	Date of first issue: 15.10.2020

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

Trade name	: UNIPAK UV 286 004 SILVER
Product code	: 026286N20M1

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.com

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 rec

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)

according to Regulation (EC) No. 1907/2006



UNIPAK UV 286 004 SILVER

Version 5.1	Revision Date: 08.12.2023	-	SDS Number: 02000033578	Print Date: 09.12.2023 Date of first issue: 15.10.2020
Haza	ard pictograms	:		
Signa	al word	:	Warning	• •
Haza	ard 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.
Prec	autionary 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.
			Response: P333 + P313 P391	If skin irritation or rash occurs: Get medical advice/ attention. Collect spillage.

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	

according to Regulation (EC) No. 1907/2006



UNIPAK UV 286 004 SILVER

sion			nt Date: 09.12.2023 te of first issue: 15.10.2020	
		Registration number		
methy pheny polym diisocy prope) 3,5,5-trimethylhexanoate	2146146-71-4	Skin Sens. 1B; H317 Aquatic Chronic 2; H411	>= 20 - ·
polym bisphe	acids, C18-unsatd., dimers, ers with acrylic acid, enol A, epichlorohydrin and noic acid	216689-76-8	Skin Sens. 1; H317	>= 10 -
ethoxy	opropylidenediphenol, ylated, esters with acrylic nd isononanoic acid	Not Assigned 919-846-5	Skin Sens. 1B; H317 Aquatic Chronic 2; H411	>= 10 -
	lidynetrimethanol, ylated, esters with acrylic	28961-43-5 500-066-5 01-2119489900-30	Eye Irrit. 2; H319 Skin Sens. 1; H317	>= 10 -
alumir	nium powder (stabilised)	7429-90-5 231-072-3 013-002-00-1 01-2119529243-45	Flam. Sol. 1; H228	>= 10 - ·
	rol, propoxylated, esters crylic acid	52408-84-1 500-114-5	Eye Irrit. 2; H319 Skin Sens. 1; H317	>= 1 - <
ethane	thyl-1,2- ediyl)bis[oxy(methyl-2,1- ediyl)] diacrylate	42978-66-5 256-032-2 607-249-00-X 01-2119484613-34	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1; H317 STOT SE 3; H335 (Respiratory system) Aquatic Chronic 2; H411	>= 2.5 -
			specific concentration limit STOT SE 3; H335 >= 10 % STOT SE 3; H335 >= 10 %	
methy	roxy-1-(4-(4-(2-hydroxy-2- Ipropionyl)benzyl)phenyl)-2- Ipropan-1-one	474510-57-1 444-860-9 606-140-00-4	STOT RE 2; H373 Aquatic Acute 1; H400 Aquatic Chronic 1;	>= 1 - <
		01-2119904050-59	H410	

according to Regulation (EC) No. 1907/2006



UNIPAK UV 286 004 SILVER

rsion		SDS Number: 102000033578	Print Date: 09.12.2023 Date of first issue: 15.10.2020)
			M-Factor (Acute aquatic toxicity): 1 M-Factor (Chronic aquatic toxicity): 1	
dodeo	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-di	i-tert-butyl-p-cresol	128-37-0 204-881-4	Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 0.1 - < 0
			M-Factor (Acute aquatic toxicity): 1 M-Factor (Chronic aquatic toxicity): 1	
(phen	is(1,1-dimethylethyl)-4- hylenemethylene)cyclohexa ien-1-one	a- 7078-98-0 429-460-4 606-117-00-9	Skin Sens. 1; H317 Aquatic Chronic 4; H413	>= 0.1 - < 0
nitros	-hydroxy-N- ophenylaminato- 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.

according to Regulation (EC) No. 1907/2006



UNIPAK UV 286 004 SILVER

Version	Revision Date:	SDS Number:	Print Date: 09.12.2023
5.1	08.12.2023	102000033578	Date of first issue: 15.10.2020

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)

according to Regulation (EC) No. 1907/2006



UNIPAK UV 286 004 SILVER

Version 5.1	Revision Date: 08.12.2023		DS Number: 2000033578	Print Date: 09.12.2023 Date of first issue: 15.10.2020	
			High volume wate	er jet	
5.2 Specia	I hazards arising from	the	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.		
Furthe	r 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. g measures that are appropriate to local nd 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	ontainment 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.

according to Regulation (EC) No. 1907/2006



UNIPAK UV 286 004 SILVER

Version	Revision Date:	SDS Number:	Print Date: 09.12.2023
5.1	08.12.2023	102000033578	Date of first issue: 15.10.2020

SECTION 7: Handling and storage

7.1	Precautions for safe handling	l	
	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, in	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.

according to Regulation (EC) No. 1907/2006



UNIPAK UV 286 004 SILVER

Version	Revision Date:	SDS Number:	Print Date: 09.12.2023
5.1	08.12.2023	102000033578	Date of first issue: 15.10.2020

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		
	TWA (Respirable dust) 4 mg/m3 GB EH40 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 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					

according to Regulation (EC) No. 1907/2006



Version 5.1	Revision Date: 08.12.2023			Print Date: 09.12.2023 Date of first issue: 15.10.2020		
	p r c a n a t 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

according to Regulation (EC) No. 1907/2006



UNIPAK UV 286 004 SILVER

Version 5.1	Revision Date: 08.12.2023	SDS Nur 1020000		Print Date: 09.12.2023 Date of first issue: 15.10.2020	
diac	rylate				
		Workers	Inhalation	Long-term systemic effects	2.94 mg/m3
2,6- cres	di-tert-butyl-p- ol	Workers	Inhalation	Long-term systemic effects	0.78 mg/m3
		Workers	Dermal	Long-term systemic effects	0.5 mg/kg
		Consumers	Inhalation	Long-term systemic effects	0.435 mg/m3
		Consumers	Dermal	Long-term systemic effects	0.25 mg/kg
		Consumers	Oral	Long-term systemic effects	0.25 mg/kg

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

Substance name	Environmental Compartment	Value
Propylidynetrimethanol, ethoxylated, esters with acrylic acid	Soil	0.00644 mg/kg
	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

according to Regulation (EC) No. 1907/2006



UNIPAK UV 286 004 SILVER

Version 5.1	Revision Date: 08.12.2023	SDS Number: 102000033578	Print Date: 09.12. Date of first issue:			
		oral (secor	ndary poisoning)	16.67 mg/kg		
8.2 Expos	sure controls					
Pers	onal protective equip	oment				
Eye/f	ace protection		safety goggles hield and protective suit	for abnormal processing		
Hand	I protection	·				
М	aterial	: Solvent-resi	Solvent-resistant gloves (butyl-rubber)			
R	emarks	concerning p special work contact). The the protectiv Please obse breakthroug gloves. Also conditions u danger of cu Recomment washed afte	the information given by bermeability and break the place conditions (mecha e exact break through time e glove producer and thi rve the instructions rega h time which are provide take into consideration the nder which the product is sts, abrasion, and the cor ded preventive skin protect r contact. The suitability scussed with the product	hrough times, and of anical strain, duration of ne can be obtained from is has to be observed. Arding permeability and by the supplier of the the specific local is used, such as the intact time. Arding the supplier of the source of the specific local is used, such as the intact time.		
	and body protection iratory protection	 Impervious clothing Choose body protection according to the amount and concentration of the dangerous substance at the work place Use suitable breathing protection if workplace concentration requires. 				

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

according to Regulation (EC) No. 1907/2006



Ver 5.1	sion	Revision Date: 08.12.2023		S Number: 2000033578	Print Date: 09.12.2023 Date of first issue: 15.10.2020
	Flamm	ability	:	No data available	e
		explosion limit / Upper ability limit	:	No data available	9
		explosion limit / Lower ability limit	:	No data available	2
	Flash p	point	:	> 100 °C	
	Auto-ig	nition temperature	:	No data available	9
	Decom	position temperature	:	No data available	9
	рН		:	substance/mixtu	re is non-soluble (in water)
	Viscosi	ty, kinematic	:	No data available	9
		ity(ies) solubility ity in other solvents	:	insoluble No data available	e
	Partitio octano	n coefficient: n- l/water	:	No data available	9
	Vapour	pressure	:	No data available	9
	Prop	Pressure for Compone ylidynetrimethanol, xylated, esters with lic acid	nts: :	0.0032 Pa (20 °	C)
	Glyc	erol, propoxylated, rs with acrylic acid	:	0.0032 Pa (20 ° Method: OECD	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	9
	Density	/	:	1.1 g/cm3	
	Relativ	e vapour density	:	No data available	9
		e characteristics ticle Size Distribution	:	No data available	9
9.2		n formation a available			

according to Regulation (EC) No. 1907/2006



UNIPAK UV 286 004 SILVER

Version 5.1	Revision Date: 08.12.2023	SDS Number: 102000033578	Print Date: 09.12.2023 Date of first issue: 15.10.2020		
SECTION	N 10: Stability and	reactivity			
10.1 Read	tivity				
No de	ecomposition if stored	and applied as direct	ed.		
10.2 Cher	nical stability				
No de	ecomposition if stored	and applied as direct	ed.		
10.3 Poss	bility of hazardous	reactions			
Haza	rdous reactions	: Contact with	: Contact with acids and alkalis may release hydrogen.		
		No decompos	sition if stored and applied as directed.		
10.4 Cond	ditions to avoid				
Cond	litions to avoid	: Do not allow	evaporation to dryness.		
		No data avail	able		
10.5 Inco	mpatible materials				
Mate	rials to avoid	: Acids Bases Oxidizing age	ents		

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

according to Regulation (EC) No. 1907/2006



ersion 1	Revision Date: 08.12.2023	SDS Number: 102000033578	Print Date: 09.12.2023 Date of first issue: 15.10.2020		
		Method: OE	CD Test Guideline 402		
-			onyl)benzyl)phenyl)-2-methylpropan-1-one:		
Acute	e 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	e oral toxicity	: LD50 (Rat): Method: OE	> 5,000 mg/kg CD Test Guideline 401		
Acute	e dermal toxicity		LD50 (Rat): > 5,000 mg/kg Method: OECD Test Guideline 402		
tris(N	I-hydroxy-N-nitrosoj	ohenylaminato-O,C	D')aluminium:		
Acute	e oral toxicity	: Assessment single inges	t: The component/mixture is moderately toxic afte tion.		
2-me	thyl-m-phenylene di	isocyanate:			
Acute inhalation toxicity : Assessment: The component/mixture is highly toxic after term inhalation.					
-	corrosion/irritation es skin irritation.				
Produ					
Remarks		: May cause s	skin irritation and/or dermatitis.		
<u>Com</u>	ponents:				
(1-me	ethyl-1,2-ethanediyl)	bis[oxy(methyl-2,1	-ethanediyl)] diacrylate:		
Resu	lt	: Skin irritatio	n		
2-me	thyl-m-phenylene di	isocyanate:			
Resu	lt	: Skin irritatio	n		
	ous eye damage/eye				
	es serious eye irritatio	M 1.			
<u>Produ</u> Rema		: May cause i	rreversible eye damage.		
<u>Com</u>	ponents:				
Prop	ylidynetrimethanol,	ethoxylated, esters	s with acrylic acid:		
Resu	lt	: Irritating to e	eves		

according to Regulation (EC) No. 1907/2006



sion	Revision Date: 08.12.2023	SDS Number: 102000033578	Print Date: 09.12.2023 Date of first issue: 15.10.2020
Glyce	erol, propoxylated, o	esters with acrylic a	cid:
Resul	t	: Eye irritation	
(4			
(1-me Resul		Eye irritation : Eye	ethanediyl)] diacrylate:
Rood		. Lyo initiation	
tris(N	-hydroxy-N-nitroso	phenylaminato-O,O	')aluminium:
Resul	t	: No eye irritat	tion
2-met	thyl-m-phenylene d	iisocvanate:	
Resul		: Eye irritation	
Resp	iratory or skin sens	itisation	
Skin	sensitisation		
May c	ause an allergic skir	reaction.	
-	iratory sensitisation		
	assified based on av	allable information.	
Produ Rema		: Causes sens	sitisation
Reind	1185	. Causes sens	Suisalion.
<u>Comp</u>	oonents:		
Poly(0 1,3-	oxy-1,2-ethanediyl),a	a'-[(1-methylethylide,	ne)di-4,1-phenylene]bis[w_hydroxy-, polymer
diisoc	yanatomethylbenzer	ne, 2-propenoate	
(ester) 3,5,5-trimethylhexa	noate (ester)	
	, .		
Resul	t	: Probability o rate in huma	r evidence of low to moderate skin sensitisatio ns
	acids, C18-unsatd. Ionanoic acid:	, dimers, polymers	with acrylic acid, bisphenol A, epichlorohy
Resul		: May cause s	ensitisation by skin contact.
Propy Resul		ethoxylated, esters	with acrylic acid: ensitisation by skin contact.
Resul	ι	. way cause s	GISHISAHUTI DY SAIT CUITACL.
Rema	ırks	: Causes sens May cause s contact.	sitisation. ensitisation of susceptible persons by skin

according to Regulation (EC) No. 1907/2006



ersion I	Revision Date: 08.12.2023	SDS Number: 102000033578	Print Date: 09.12.2023 Date of first issue: 15.10.2020
Glyce	erol, propoxylated, e	sters with acrylic a	cid:
Resu	lt	: May cause s	ensitisation by skin contact.
tris(N	I-hydroxy-N-nitrosor	ohenylaminato-O,O	')aluminium:
Resu	lt	: The product	is a skin sensitiser, sub-category 1B.
2-me	thyl-m-phenylene di	isocyanate:	
Resu	lt	: May cause s	ensitisation by skin contact.
Resu	lt	: May cause s	ensitisation by inhalation.
	cell mutagenicity lassified based on ava	ailable information	
	nogenicity		
	lassified based on ava	ailable information.	
<u>Com</u>	ponents:		
Carci	thyl-m-phenylene di nogenicity - ssment	-	ence of carcinogenicity in animal studies
•	oductive toxicity lassified based on ava	ailable information.	
	「- single exposure		
	lassified based on ava	ailable information.	
<u>Com</u>	ponents:		
	thyl-m-phenylene di ssment	i socyanate: : May cause re	aspiratory irritation
A3363	SSILIEIR	. May cause R	
	- repeated exposur lassified based on ava		
<u>Com</u>	ponents:		
2-hyc	droxy-1-(4-(4-(2-hydr	oxy-2-methylpropic	onyl)benzyl)phenyl)-2-methylpropan-1-one:
Asses	ssment		ce or mixture is classified as specific target organ eated exposure, category 2.
dode	cylphosphonic acid:		
Targe	et Organs ssment	: Kidney : The substan	ce or mixture is classified as specific target organ eated exposure, category 2.

according to Regulation (EC) No. 1907/2006



UNIPAK UV 286 004 SILVER

Version 5.1	Revision Date: 08.12.2023	SDS Number: 102000033578	Print Date: 09.12.2023 Date of first issue: 15.10.2020
Aspi	ration toxicity		
Not c	lassified based on av	ailable information.	
11.2 Infor	mation on other haz	ards	
Furth	ner information		
<u>Prod</u> Rema		: No data availat	ble
Com			

Components:

dodecylphosphonic acid:		
Remarks	:	No data available

SECTION 12: Ecological information

12.1 Toxicity

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 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)	:	1
M-Factor (Long-term (chronic) aquatic hazard)	:	1
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:

according to Regulation (EC) No. 1907/2006



Version 5.1	Revision Date: 08.12.2023	SDS Number: 102000033578	Print Date: 09.12.2023 Date of first issue: 15.10.2020			
aqua [.] M-Fa	ctor (Short-term (acute) tic hazard) ctor (Long-term nic) aquatic hazard)	: 1 : 1				
	exicology Assessment	: Very toxic to aquatic life.				
Chro	nic aquatic toxicity	: Very toxic to ac	: Very toxic to aquatic life with long lasting effects.			
tris(N	I-hydroxy-N-nitrosophe	enylaminato-O,O')a	lluminium:			
	Ecotoxicology Assessment Chronic aquatic toxicity : Very toxic to aquatic life with long lasting effects.					
2-me	thyl-m-phenylene diiso	cyanate:				
	Ecotoxicology Assessment Chronic aquatic toxicity : Harmful to aquatic life with long lasting effects.					
	istence and degradabil ata available	ity				
12.3 Bioa	ccumulative potential					
<u>Com</u>	ponents:					
Poly(1,3-	oxy-1,2-ethanediyl),a,a'-	(1-methylethylidene	e)di-4,1-phenylene]bis[w_hydroxy-, polymer with			
diisoo	vyanatomethylbenzene, 2	2-propenoate				
(este	r) 3,5,5-trimethylhexanoa	ite (ester)				
:						
	ion coefficient: n- ol/water	: Pow: 1.49 - 4.7 Method: OECD	74 9 Test Guideline 117			
Glyce	erol, propoxylated, este	ers with acrylic aci	d:			
	ion coefficient: n- ol/water	: log Pow: 2.52 (Method: OECD	(23 °C) 9 Test Guideline 107			
2-me	thyl-m-phenylene diiso	cyanate:				
	ion coefficient: n- ol/water	: log Pow: 3.74				
	lity in soil ata available					

according to Regulation (EC) No. 1907/2006



UNIPAK UV 286 004 SILVER

Version	Revision Date:	SDS Number:	Print Date: 09.12.2023
5.1	08.12.2023	102000033578	Date of first issue: 15.10.2020

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.

according to Regulation (EC) No. 1907/2006



Version 5.1	Revision Date: 08.12.2023	SDS Number: 102000033578	Print Date: 09.12.2023 Date of first issue: 15.10.2020			
SECTION 14: Transport information						
14.1 UN ni	umber or ID number					
ADR		: UN 3082				
IMDG		: UN 3082				
ΙΑΤΑ		: UN 3082				
14.2 UN pi	roper shipping name					
ADR		N.O.S.	NTALLY HAZARDOUS SUBSTANCE, LIQUID, idenediphenol, ethoxylated, esters with acrylic manoic acid)			
IMDG		N.O.S.	NTALLY HAZARDOUS SUBSTANCE, LIQUID, idenediphenol, ethoxylated, esters with acrylic nanoic acid)			
ΙΑΤΑ			ly hazardous substance, liquid, n.o.s. idenediphenol, ethoxylated, esters with acrylic nanoic acid)			
14.3 Trans	sport hazard class(es)					
		Class	Subsidiary risks			
ADR		: 9				
IMDG		: 9				
ΙΑΤΑ		: 9				
14.4 Packi	ing group					
Classi Hazar Labels	ng group ification Code rd Identification Number s el restriction code	: III : M6 : 90 : 9 : (-)				
IMDG	ng group s	: III : 9 : F-A, S-F				
Packir aircrat Packir Packir Labels	ng instruction (LQ) ng group	: 964 : Y964 : III : 9				



according to Regulation (EC) No. 1907/2006



UNIPAK UV 286 004 SILVER

Version 5.1	Revision Date: 08.12.2023		DS Number: 02000033578	Print Date: 09.12.2023 Date of first issue: 15.10.2020
Packing instruction (passenger aircraft)		:	964	
	ng instruction (LQ) ng group S	:	Y964 III 9	
14.5 Environmental hazards				
ADR Enviro	onmentally hazardous	:	yes	
IMDG Marine	e pollutant	:	yes	
14.6 Special precautions for user		ər		
Remarks		:	packagings conta	gings <=5L / 5 kg, or combination ining inner packagings <= 5L / 5 kg net per SV375 ADR, 2.10.2.7 IMDG-Code, A197 be applied.

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.

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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according to Regulation (EC) No. 1907/2006



UNIPAK UV 286 004 SILVER

Versio 5.1	n Revision Date: 08.12.2023	SDS Number: 102000033578		ate: 09.12.2023 first issue: 15.10.2020
				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)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)
	K REACH Candidate list of oncern (SVHC) for Authoris		ר :	Not applicable
T R	ne Persistent Organic Pollu egulation (EU) 2019/1021 a ritain)	tants Regulations (retai	ned :	Not applicable
R	egulation (EC) No 1005/200	09 on substances that	:	Not applicable
U	K REACH List of substance annex XIV)	es 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

according to Regulation (EC) No. 1907/2006



UNIPAK UV 286 004 SILVER

Version	Revision Date:	 DS Number:	Print Date: 09.12.2023
5.1	08.12.2023	2000033578	Date of first issue: 15.10.2020
Aquatic Carc. Eye Da Eye Irr Flam. S Resp. Skin C Skin S Skin S STOT STOT GB EH	c Acute c Chronic am. it. Sol. Sens. orr. it. ens. 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:

according to Regulation (EC) No. 1907/2006



UNIPAK UV 286 004 SILVER

Version 5.1	Revision Date: 08.12.2023	SDS Number: 102000033578	Print Date: 09.12.2023 Date of first issue: 15.10.2020
Skin I	rrit. 2	H315	Calculation method
Eye Irrit. 2		H319	Calculation method
Skin Sens. 1		H317	Calculation method
Aquat	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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