according to Regulation (EC) No. 1907/2006



ULTRASTAR UV/LED FPG 78320 Silver

Version	Revision Date:	SDS Number:	Print Date: 29.03.2024
1.0	28.03.2024	102000035376	Date of first issue: 28.03.2024

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

1.1 Product identifier Trade name	: ULTRASTAR UV/LED FPG 78320 Silver	
Product code	: 027235U30	
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 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 reaction.
- Long-term (chronic) aquatic hazard, 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



ULTRASTAR UV/LED FPG 78320 Silver

Version 1.0	Revision Date: 28.03.2024		DS Number: 02000035376	Print Date: 29.03.2024 Date of first issue: 28.03.2024
Hazard	pictograms	:		
Signal	word	:	Warning	×
Hazard	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.
Precau	tionary 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:

Propylidynetrimethanol, ethoxylated, esters with acrylic acid Alkoxylated multifunctional acrylate oligomer monoalkylor monoaryl or monoalkylaryl esters of acrylic acid Glycerol, propoxylated, esters with acrylic acid phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide

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	CAS-No.	ClassificationREGUL	Concentration
	EC-No.	ATION (EC) No	(% w/w)
	Index-No.	1272/2008	(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
	Registration number		
Poly(oxy-1,2-ethanediyl), .alpha	51728-26-8	Skin Irrit. 2; H315	>= 25 - < 50
hydroomega[(1-oxo-2-propen-	500-111-9	Eye Irrit. 2; H319	
1-yl)oxy]-, ether with 2,2-		Aquatic Chronic 2;	
bis(hydroxymethyl)-1,3-	01-2119969962-19	H411	
propanediol (4:1)			
Propylidynetrimethanol,	28961-43-5	Eye Irrit. 2; H319	>= 10 - < 20
ethoxylated, esters with acrylic	500-066-5	Skin Sens. 1; H317	

according to Regulation (EC) No. 1907/2006



ULTRASTAR UV/LED FPG 78320 Silver

d multifunctional igomer or monoaryl or aryl esters of acrylic	01-2119489900-30 104634-06-2 64194-22-5 264-727-7 607-133-00-9 01-2120117435-63	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1A; H317 Acute Tox. 4; H332 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1A; H317 STOT SE 3; H335 (Respiratory system)	>= 10 - <
igomer or monoaryl or	64194-22-5 264-727-7 607-133-00-9	Eye Irrit. 2; H319 Skin Sens. 1A; H317 Acute Tox. 4; H332 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1A; H317 STOT SE 3; H335	
	264-727-7 607-133-00-9	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1A; H317 STOT SE 3; H335	>= 2.5 - <
		Aquatic Chronic 3; H412 specific concentration limit STOT SE 3; H335 >= 10 % STOT SE 3; H335 >= 10 %	
propoxylated, esters c acid	52408-84-1 500-114-5 01-2119487948-12	Eye Irrit. 2; H319 Skin Sens. 1; H317	>=1-<
(2,4,6- enzoyl)-phosphine oxide	162881-26-7 423-340-5 015-189-00-5	Skin Sens. 1; H317 Aquatic Chronic 4; H413	>= 2.5 - <
powder (stabilised)	7429-90-5 231-072-3 013-002-00-1	Flam. Sol. 1; H228	>=1-<′
e	nzoyl)-phosphine oxide	nzoyl)-phosphine oxide 423-340-5 015-189-00-5 01-2119489401-38 powder (stabilised) 7429-90-5 231-072-3	nzoyl)-phosphine oxide 423-340-5 015-189-00-5 Aquatic Chronic 4; H413 01-2119489401-38 Flam. Sol. 1; H228 231-072-3 013-002-00-1

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice	 Move out of dangerous area. Show this safety data sheet to the doctor in attendance. Do not leave the victim unattended. Move the victim to fresh air.
lf inhaled	: Remove to fresh air. If unconscious, place in recovery position and seek medical advice.

according to Regulation (EC) No. 1907/2006



ULTRASTAR UV/LED FPG 78320 Silver

Version 1.0	Revision Date: 28.03.2024	SDS Number: 102000035376	Print Date: 29.03.2024 Date of first issue: 28.03.2024
In case of skin contact			
In case	e of eye contact	: Immediately flus Remove contact Keep eye wide o If eye irritation po	liately with soap and plenty of water. h eye(s) with plenty of water. lenses. open while rinsing. ersists, consult a specialist. h eye(s) with plenty of water.
If swallowed		: Keep respiratory Do not give milk Never give anyth	

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 Special powder against metal fire
Unsuitable extinguishing media	:	High volume water jet
		ABC powder Carbon dioxide (CO2) Water Foam
5.2 Special hazards arising from	the	e substance or mixture
Specific hazards during firefighting	:	Do not allow run-off from fire fighting to enter drains or water courses.
5.3 Advice for firefighters Special protective equipment	:	Wear self-contained breathing apparatus for firefighting if

according to Regulation (EC) No. 1907/2006



ULTRASTAR UV/LED FPG 78320 Silver

Version 1.0	Revision Date: 28.03.2024	SDS Number: 102000035376	Print Date: 29.03.2024 Date of first issue: 28.03.2024
forfire	fighters	necessary.	
Further information		must not be disc Fire residues and be disposed of ir Use extinguishing	ated fire extinguishing water separately. This harged into drains. d contaminated fire extinguishing water must n accordance with local regulations. g measures that are appropriate to local and the surrounding environment.

SECTION 6: Accidental release measures

	equipment and emergency procedures Use personal protective equipment. Evacuate personnel to safe areas.			
6.2 Environmental precautions				
General advice :	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. The product should not be allowed to enter drains, water courses or the soil.			
6.3 Methods and material for containment and cleaning up				
Methods for cleaning up :	Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal.			
	Use mechanical handling equipment. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).			

6.4 Reference to other sections

For personal protection see section 8.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling	 Do not breathe vapours/dust. Avoid exposure - obtain special instructions before use. Avoid contact with skin and eyes. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Dispose of rinse water in accordance with local and national regulations.
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according to Regulation (EC) No. 1907/2006



ULTRASTAR UV/LED FPG 78320 Silver

Ver 1.0	sion	Revision Date: 28.03.2024	-	DS Number: 2000035376	Print Date: 29.03.2024 Date of first issue: 28.03.2024
		on protection against	:	allergies, chronic be employed in a used.	ble to skin sensitisation problems or asthma, or recurrent respiratory disease should not ny process in which this mixture is being for preventive fire protection.
		ne measures	:		ot eat or drink. When using do not smoke. The breaks and at the end of workday.
72	Conditi	ons for safe storage	inc	luding any incom	patibilities
7.2 Conditions for safe storage, inc Requirements for storage : areas and containers		:	Keep container tig place. Containers resealed and kep	ghtly closed in a dry and well-ventilated which are opened must be carefully t upright to prevent leakage. Electrical king materials must comply with the	
				with water liberate measures to prev explosion-proof e containers tightly	iners and apparatuses is essential. Reaction es extremely flammable gas (hydrogen) Take ent the build up of electrostatic charge. Use equipment. Store in original container. Keep closed in a cool, well-ventilated place. Keep es of ignition - No smoking. Keep container n use.
		r information on e conditions	:	Protect from hum	idity and water.
	Advice	e on common storage	:	Keep away from materials. Never allow prod storage. Keep away from	acids. ther with oxidizing and self-igniting products. oxidizing agents and strongly acid or alkaline uct to get in contact with water during oxidizing agents, strongly alkaline and erials in order to avoid exothermic reactions.
		r information on e stability	:	No decompositio	n if stored and applied as directed.
7 2	Specifi	a and usa(a)			

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

according to Regulation (EC) No. 1907/2006



ULTRASTAR UV/LED FPG 78320 Silver

Version	
1.0	

Revision Date: 28.03.2024

SDS Number: 102000035376

Print Date: 29.03.2024 Date of first issue: 28.03.2024

TWA (Respire fraction)	able	4 mg/m3	GB EH40
TWA (inhalab dust)	le	10 mg/m3	GB EH40
inhalable dust are those fract when sampling is undertaker MDHS14/4 General methods respirable, thoracic and inhal substance hazardous to heat concentration in air equal to inhalable dust or 4 mg.m-3 8 any dust will be subject to C0 levels. Some dusts have been must comply with the approp particles of a wide range of s particular particle after entry response that it elicits, depend distinguishes two size fraction and 'respirable'., Inhalable d material that enters the nose available for deposition in the to the fraction that penetrates definitions and explanatory m contain components that hav should be complied with., W	tions in a s for s lable lth ind or gre briate sizes. into t nd on oust ap and e resp s to the nateria /e the here r	sess of these limits, respirable of airborne dust which will be ccordance with the methods ampling and gravimetric anal aerosols., The COSHH defin cludes dust of any kind when eater than 10 mg.m-3 8-hour TWA of respirable dust. This if people are exposed to du signed specific WELs and exp limits., Most industrial dusts The behaviour, deposition and he human respiratory system the nature and size of the part or limit-setting purposes termed proximates to the fraction of mouth during breathing and i piratory tract. Respirable dust the gas exchange region of the al are given in MDHS14/4., V ir own assigned WEL, all the no specific short-term exposu- exposure limit should be use	e collected described in lysis or ition of a present at a TWA of a means that st above these contain nd fate of any and the body article. HSE ed 'inhalable' airborne s therefore approximates e lung. Fuller Vhere dusts relevant limits ure limit is listed,
TWA (Respira dust)	able	4 mg/m3	GB EH40
Further information: For the inhalable dust are those frac when sampling is undertaker MDHS14/4 General methods respirable, thoracic and inhal substance hazardous to heal concentration in air equal to inhalable dust or 4 mg.m-3 8 any dust will be subject to C0 levels. Some dusts have bee must comply with the approp particles of a wide range of s particular particle after entry response that it elicits, depend distinguishes two size fraction and 'respirable'., Inhalable d material that enters the nose available for deposition in the to the fraction that penetrates definitions and explanatory m contain components that hav should be complied with., W	tions in a s for s lable lth inc or gre briate sizes. into t nd on ons fo ust ap and e resp s to the nateria /e the here r	ses of these limits, respirable of airborne dust which will be cordance with the methods ampling and gravimetric anal aerosols., The COSHH defin cludes dust of any kind when eater than 10 mg.m-3 8-hour TWA of respirable dust. This if people are exposed to du signed specific WELs and exp limits., Most industrial dusts The behaviour, deposition and he human respiratory system the nature and size of the part or limit-setting purposes termed proximates to the fraction of mouth during breathing and i piratory tract. Respirable dust he gas exchange region of th al are given in MDHS14/4., V ir own assigned WEL, all the no specific short-term exposu- exposure limit should be use	e collected described in lysis or ition of a present at a TWA of a means that st above these cosure to these contain and fate of any b, and the body article. HSE ed 'inhalable' airborne s therefore a approximates e lung. Fuller Vhere dusts relevant limits ure limit is listed,

according to Regulation (EC) No. 1907/2006



Date: 29.03.2024

of first issue: 28.03.2024

ULTRASTAR UV/LED FPG 78320 Silver

Version	Revision Date:	SDS Number:	Print
1.0	28.03.2024	102000035376	Date

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health effects	Value
Poly(oxy-1,2- ethanediyl), .alpha hydroomega[(1- oxo-2-propen-1- yl)oxy]-, ether with 2,2- bis(hydroxymethyl)- 1,3-propanediol (4:1)	Workers	Inhalation	Long-term systemic effects	0.88 mg/m3
	Workers	Dermal	Long-term systemic effects	0.5 mg/kg
Propylidynetrimethan ol, ethoxylated, esters with acrylic acid	Workers	Inhalation	Long-term systemic effects	16.2 mg/m3
	Workers	Dermal	Long-term systemic effects	0.8 mg/kg
	Consumers	Inhalation	Long-term systemic effects	4.9 mg/m3
	Consumers	Dermal	Long-term systemic effects	0.48 mg/kg
	Consumers	Oral	Long-term systemic effects	1.39 mg/kg
monoalkylor monoaryl or monoalkylaryl esters of acrylic acid	Workers	Inhalation	Long-term systemic effects	5.88 mg/m3
	Workers	Dermal	Long-term systemic effects	0.83 mg/kg
	Consumers	Inhalation	Long-term systemic effects	1.45 mg/m3
	Consumers	Dermal	Long-term systemic effects	0.42 mg/kg
	Consumers	Oral	Long-term systemic effects	0.42 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
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	3.95 mg/kg

according to Regulation (EC) No. 1907/2006



ULTRASTAR UV/LED FPG 78320 Silver

Version 1.0	Revision Date: 28.03.2024	SDS Nur 1020000		Print Date: 29.03.2024 Date of first issue: 28.03.2024	
ĺ				effects	I
trim	nyl bis(2,4,6- ethylbenzoyl)- sphine oxide	Workers	Inhalation	Long-term systemic effects	7.84 mg/m3
		Workers	Dermal	Long-term systemic effects	3.0 mg/kg
		Consumers	Inhalation	Long-term systemic effects	1.93 mg/m3
		Consumers	Dermal	Long-term systemic effects	1.5 mg/kg
		Consumers	Oral	Long-term systemic effects	1.5 mg/kg
		Workers	Inhalation	Acute systemic effects	7.84 mg/m3
		Workers	Dermal	Acute systemic effects	3.3 mg/kg
		Consumers	Inhalation	Acute systemic effects	1.93 mg/m3
		Consumers	Dermal	Acute systemic effects	1.67 mg/kg
		Consumers	Oral	Acute systemic effects	0.00167 ppm

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

Substance name	Environmental Compartment	Value
Poly(oxy-1,2-ethanediyl), .alpha	Soil	0.0078 mg/kg
hydroomega[(1-oxo-2-propen-		
1-yl)oxy]-, ether with 2,2-		
bis(hydroxymethyl)-1,3-		
propanediol (4:1)		
	Fresh water	0.00176 mg/l
	Fresh water sediment	0.017 mg/kg
	Marine water	0.000176 mg/l
	Marine sediment	0.0017 mg/kg
	STP	4 mg/l
Propylidynetrimethanol,	Soil	0.00644 mg/kg
ethoxylated, esters with acrylic		
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
monoalkylor monoaryl or	Fresh water	0.001 mg/l
monoalkylaryl esters of acrylic		-
acid		
	Marine water	0.001 mg/l
	STP	2.7 mg/l
	Fresh water sediment	0.031 mg/kg

according to Regulation (EC) No. 1907/2006



ULTRASTAR UV/LED FPG 78320 Silver

Version	Revisi
1.0	28.03.

vision Date: 03.2024 SDS Number: 102000035376 Print Date: 29.03.2024 Date of first issue: 28.03.2024

	Marine sediment	0.003 mg/kg
	water (intermittent release)	0.012 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
aluminium powder (stabilised)	Fresh water	0.0749 mg/l
	clarification plant	20 mg/l
phenyl bis(2,4,6- trimethylbenzoyl)-phosphine oxide	Fresh water	0.8 µg/l
	Marine water	0.8 µg/l
	STP	1 mg/l
	Fresh water sediment	0.712 mg/kg
	Marine sediment	0.712 mg/kg
	Soil	20 mg/kg
	Intermittent water release	0.8 µg/l

8.2 Exposure controls

Personal protective equipment				
Eye/face protection	 Tightly fitting safety goggles Wear face-shield and protective suit for abnormal processing problems. Goggles 			
Hand protection				
Remarks	: The suitability for a specific workplace should be discussed with the producers of the protective gloves.			
Skin and body protection	: Impervious clothing Choose body protection according to the amount and			
Respiratory protection	 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
Freezing point	:	No data available

according to Regulation (EC) No. 1907/2006



Vers 1.0	sion	Revision Date: 28.03.2024		S Number: 000035376	Print Date: 29.03.2024 Date of first issue: 28.03.2024
	Boiling	point/boiling range	:	> 100 °C	
	Flamma	ability	:	No data available	3
		explosion limit / Upper bility limit	:	No data available	
		explosion limit / Lower bility limit	:	No data available	•
	Flash p	oint	:	> 100 °C	
	Auto-ig	nition temperature	:	No data available)
	Decom	position temperature	:	No data available)
	рН		:	6 - 8 Concentration: 10	00 %
	Viscosi	ity, kinematic	:	No data available)
		ity(ies) solubility ity in other solvents	:	insoluble No data available)
	Partitio octanol	n coefficient: n- //water	:	No data available)
		pressure	:	No data available)
	Prop etho	Pressure for Componer ylidynetrimethanol, kylated, esters with ic acid	nts: :	0.0032 Pa (20 °	C)
	mono	balkylor monoaryl or balkylaryl esters of ic acid	:	0.105 Pa (20 °C)
	Glyce	erol, propoxylated, s with acrylic acid	:	0.0032 Pa (20 ° Method: OECD	C) Test Guideline 104
	Relative	e density	:	No data available	•
	Density	,	:	No data available	
	Relative	e vapour density	:	No data available)
		characteristics icle Size Distribution	:	No data available	9
9.2 (n formation a available			

according to Regulation (EC) No. 1907/2006



ULTRASTAR UV/LED FPG 78320 Silver

Version 1.0	Revision Date: 28.03.2024	SDS Number: 102000035376	Print Date: 29.03.2024 Date of first issue: 28.03.2024
SECTIO	N 10: Stability and	reactivity	
10.1 Reac No de	-	d and applied as direct	ed.
10.2 Cher	nical stability	d and applied as direct	
	sibility of hazardous rdous reactions	: No decompo	sition if stored and applied as directed. acids and alkalis may release hydrogen.
	ditions to avoid litions to avoid	: No data avail Do not allow	able evaporation to dryness.
	mpatible materials 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.

Product:

Acute inhalation toxicity	:	Acute toxicity estimate: > 20 mg/l
		Exposure time: 4 h
		Test atmosphere: vapour
		Method: Calculation method

Components:

monoalkylor monoaryl or monoalkylaryl esters of acrylic acid:

Acute inhalation toxicity	:	Assessment: The component/mixture is moderately toxic after
		short term inhalation.

phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide:

Acute oral toxicity	: LD50 (Rat): > 2,000 mg/kg
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according to Regulation (EC) No. 1907/2006



rsion	Revision Date: 28.03.2024	SDS Number: 102000035376	Print Date: 29.03.2024 Date of first issue: 28.03.2024
		Method: OE	ECD Test Guideline 401
Acute	e dermal toxicity		> 2,000 mg/kg ECD Test Guideline 402
	inium powder (stabil e inhalation toxicity	Exposure ti	
-	corrosion/irritation es skin irritation.		
<u>Produ</u> Rema		: May cause	skin irritation and/or dermatitis.
<u>Com</u> r	ponents:		
Alkox	cylated multifunction	al acrylate oligon	ner:
Resul	lt	: Skin irritatio	2n
monc Resul		monoalkylaryl es : Skin irritatio	ters of acrylic acid:
Resul Serio		: Skin irritatio	-
Resul Serio	lt ous eye damage/eye es serious eye irritatio <u>uct:</u>	: Skin irritation irritation n.	-
Resul Serio Cause <u>Produ</u> Rema	lt ous eye damage/eye es serious eye irritatio <u>uct:</u>	: Skin irritation irritation n.	on
Resul Serio Cause <u>Produ</u> Rema	lt ous eye damage/eye es serious eye irritatio <u>uct:</u> arks	: Skin irritation irritation n. : May cause	irreversible eye damage.
Resul Serio Cause <u>Produ</u> Rema	It ous eye damage/eye es serious eye irritatio <u>uct:</u> arks ponents: ylidynetrimethanol, e	: Skin irritation irritation n. : May cause	irreversible eye damage.
Resul Serio Cause Produ Rema <u>Comp</u> Resul	It ous eye damage/eye es serious eye irritatio <u>uct:</u> arks ponents: ylidynetrimethanol, e	: Skin irritation irritation in. : May cause ethoxylated, esters : Irritating to	irreversible eye damage. s with acrylic acid: eyes.
Resul Serio Cause Produ Rema <u>Comp</u> Resul	It ous eye damage/eye es serious eye irritatio <u>uct:</u> arks ponents: ylidynetrimethanol, e It kylated multifunction	: Skin irritation irritation in. : May cause ethoxylated, esters : Irritating to	irreversible eye damage. s with acrylic acid: eyes.
Resul Serio Cause Produ Rema Comp Resul Resul	It ous eye damage/eye es serious eye irritatio <u>uct:</u> arks ponents: ylidynetrimethanol, e It kylated multifunction	: Skin irritation irritation in. : May cause ethoxylated, esters : Irritating to hal acrylate oligon : Eye irritatio	irreversible eye damage. s with acrylic acid: eyes. ner: n
Resul Serio Cause Produ Rema Comp Resul Resul	It bus eye damage/eye es serious eye irritatio <u>uct:</u> arks ponents: ylidynetrimethanol, e It kylated multifunction It	: Skin irritation irritation in. : May cause ethoxylated, esters : Irritating to hal acrylate oligon : Eye irritatio	irreversible eye damage. s with acrylic acid: eyes. ner: n ters of acrylic acid:
Resul Serio Cause Produ Rema Comp Resul Alkox Resul Resul	It bus eye damage/eye es serious eye irritatio <u>uct:</u> arks ponents: ylidynetrimethanol, e It kylated multifunction It	: Skin irritation irritation in. : May cause ethoxylated, esters : Irritating to hal acrylate oligon : Eye irritatio monoalkylaryl es : Eye irritatio	irreversible eye damage. s with acrylic acid: eyes. ner: n ters of acrylic acid: n

according to Regulation (EC) No. 1907/2006



ersion 0	Revision Date: 28.03.2024	SDS Number: 102000035376	Print Date: 29.03.2024 Date of first issue: 28.03.2024
Resp	iratory or skin sensi	tisation	
• • • • • • • • • • • • • • • • • • • •	sensitisation cause an allergic skin	reaction.	
-	iratory sensitisation lassified based on ava		
<u>Prod</u> Rema		: Causes sensit	isation.
<u>Com</u>	oonents:		
		ethoxylated, esters w	vith acrylic acid:
Resul	lt	: May cause se	nsitisation by skin contact.
Rema	arks	: Causes sensit May cause sen contact.	isation. nsitisation of susceptible persons by skin
Alko	cylated multifunction	nal acrylate oligomer	:
Resul	lt	: Probability or humans	evidence of high skin sensitisation rate in
mono	oalkylor monoaryl o	r monoalkylaryl ester	-
Resul	lt	: The product is	a skin sensitiser, sub-category 1A.
Glyce	erol, propoxylated, e	esters with acrylic aci	d:
Resul	t	: May cause set	nsitisation by skin contact.
phen	yl bis(2,4,6-trimethyl	benzoyl)-phosphine	oxide:
Resul	t	: May cause set	nsitisation by skin contact.
	a cell mutagenicity lassified based on ava	ailable information.	
	nogenicity lassified based on ava	ailable information.	
-	oductive toxicity lassified based on av	ailable information.	
	F - single exposure lassified based on available	ailable information.	
<u>Com</u>	oonents:		
	oalkylor monoaryl o sure routes	r monoalkylaryl ester : Inhalation	s of acrylic acid:

according to Regulation (EC) No. 1907/2006



Version 1.0	Revision Date: 28.03.2024		Number: 0035376	Print Date: 29.03.2024 Date of first issue: 28.03.2024
Asse	ssment	to		or mixture is classified as specific target organ exposure, category 3 with respiratory tract
	- repeated exposure lassified based on avail	able info	ormation.	
-	ration toxicity lassified based on avail	able info	ormation.	
11.2 Infor	mation on other hazar	ds		
Furth	er information			
<u>Prod</u> Rema		: No	o data availab	e
SECTIO	N 12: Ecological info	rmatio	n	
12.1 Toxic	city			
<u>Com</u>	oonents:			
mono	oalkylor monoaryl or r	nonoalk	ylaryl esters	of acrylic acid:
	exicology Assessment nic aquatic toxicity		armful to aqua	tic life with long lasting effects.
phen	yl bis(2,4,6-trimethylbo	enzoyl)-	phosphine c	xide:
	exicology Assessment nic aquatic toxicity		ay cause long	lasting harmful effects to aquatic life.
	i stence and degradabi ata available	lity		
	ccumulative potential			
12.3 Bioa				
	oonents:			
<u>Com</u> Glyce Partit	-	: log	g Pow: 2.52 (2	
Com Glyce Partiti octan 12.4 Mobi	conents: erol, propoxylated, est ion coefficient: n-	: log	g Pow: 2.52 (2	23 °C)
Comp Glyce Partiti octan 12.4 Mobi No da	oonents: erol, propoxylated, est ion coefficient: n- iol/water	: log Me	g Pow: 2.52 (2 ethod: OECD	23 °C)



Version

1.0

according to Regulation (EC) No. 1907/2006

Revision Date:

28.03.2024



Print Date: 29.03.2024

Date of first issue: 28.03.2024

ULTRASTAR UV/LED FPG 78320 Silver

SDS Number:

102000035376

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 p No data available	properties
12.7 Other adverse effects	
Product: Additional ecological information	: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Toxic to aquatic life with long lasting effects.
Components:	
Glycerol, propoxylated, Additional ecological information	esters with acrylic acid: : No data available
SECTION 13: Disposal co	onsiderations
SECTION 13: Disposal co	
	gue : 08 03 12 - waste ink containing dangerous substances
European Waste Catalog	gue : 08 03 12 - waste ink containing dangerous substances
European Waste Catalog	 gue : 08 03 12 - waste ink containing dangerous substances bds : 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.
European Waste Catalog 13.1 Waste treatment metho Product	 gue : 08 03 12 - waste ink containing dangerous substances bds : 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. : Empty remaining contents. Dispose of as unused product. Do not re-use empty containers.
European Waste Catalog 13.1 Waste treatment metho Product Contaminated packaging	 gue : 08 03 12 - waste ink containing dangerous substances bds 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. Empty remaining contents. Dispose of as unused product. Do not re-use empty containers.
European Waste Catalog 13.1 Waste treatment metho Product Contaminated packaging SECTION 14: Transport i	 gue : 08 03 12 - waste ink containing dangerous substances bds 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. Empty remaining contents. Dispose of as unused product. Do not re-use empty containers.
European Waste Catalog 13.1 Waste treatment methor Product Contaminated packaging SECTION 14: Transport i 14.1 UN number or ID numb	gue : 08 03 12 - waste ink containing dangerous substances ods : 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. : Empty remaining contents. Dispose of as unused product. Do not re-use empty containers. mformation
European Waste Catalog 13.1 Waste treatment metho Product Contaminated packaging SECTION 14: Transport i 14.1 UN number or ID numb ADR	 gue : 08 03 12 - waste ink containing dangerous substances bds 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. Fmpty remaining contents. Dispose of as unused product. Do not re-use empty containers. Information rer UN 3082
European Waste Catalog 13.1 Waste treatment metho Product Contaminated packaging SECTION 14: Transport i 14.1 UN number or ID numb ADR IMDG	gue : 08 03 12 - waste ink containing dangerous substances ods : 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. : Empty remaining contents. Dispose of as unused product. Do not re-use empty containers. of re-use empty containers. of UN 3082 : UN 3082 : UN 3082

according to Regulation (EC) No. 1907/2006



Version 1.0	Revision Date: 28.03.2024		9S Number: 2000035376	Print Date: 29.03.2024 Date of first issue: 28.03.2024
			N.O.S. (Pentaerythritol,	ethoxylated, esters with acrylic acid)
IMDG		:	N.O.S.	LLY HAZARDOUS SUBSTANCE, LIQUID, ethoxylated, esters with acrylic acid)
ΙΑΤΑ		:		hazardous substance, liquid, n.o.s. ethoxylated, esters with acrylic acid)
14.3 Trans	sport hazard class(es)			
			Class	Subsidiary risks
ADR		:	9	
IMDG		:	9	
ΙΑΤΑ		:	9	
14.4 Packi	ing group			
ADR				
Classi Hazar Labels	ng group ification Code d Identification Number s el restriction code	:	III M6 90 9 (-)	
IMDG Packin Labels EmS	ng group s	:	III 9 F-A, S-F	
ΙΑΤΑ	(Cargo) ng instruction (cargo	:	964	
Packi Packi	ng instruction (LQ) ng group s	: : :	Y964 III 9	
Packi	(Passenger) ng instruction enger aircraft)	:	964	
Packi	ng instruction (LQ) ng group	:	Y964 III 9	
14.5 Envir	onmental hazards			
ADR Enviro	onmentally hazardous	:	yes	
IMDG Marine	e pollutant	:	yes	
14.6 Spec i Rema	ial precautions for use	r :	For single packa	gings <=5L / 5 kg, or combination

according to Regulation (EC) No. 1907/2006



ULTRASTAR UV/LED FPG 78320 Silver

Version	Revision Date:	SDS Number:	Print Date: 29.03.2024
1.0	28.03.2024	102000035376	Date of first issue: 28.03.2024

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.

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 Propylidynetrimethanol, ethoxylated, esters with acrylic acid (Number on list 3) monoalkylor monoaryl or monoalkylaryl esters of acrylic acid (Number on list 3) Glycerol, propoxylated, esters with acrylic acid (Number on list 3) aluminium powder (stabilised) (Number on list 40)
UK REACH Candidate list of substances of very high concern (SVHC) for Authorisation	:	Not applicable
The Persistent Organic Pollutants Regulations (retained Regulation (EU) 2019/1021 as amended for Great Britain)	:	Not applicable
Regulation (EC) No 1005/2009 on substances that deplete the ozone layer	:	Not applicable
UK REACH List of substances subject to authorisation (Annex XIV)	:	Not applicable

15.2 Chemical safety assessment

No data available

according to Regulation (EC) No. 1907/2006



ULTRASTAR UV/LED FPG 78320 Silver

Version 1.0 Revision Date: 28.03.2024

SDS Number: 102000035376 Print Date: 29.03.2024 Date of first issue: 28.03.2024

SECTION 16: Other information

Full text of H-Statements					
H228	:	Flammable solid.			
H315	:	Causes skin irritation.			
H317	:	May cause an allergic skin reaction.			
H319	:	Causes serious eye irritation.			
H332	:	Harmful if inhaled.			
H335	:	May cause respiratory irritation.			
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					
Full text of other abbreviation	ons				
Full text of other abbreviation Acute Tox.	ons :	Acute toxicity			
	ons : :	Acute toxicity Long-term (chronic) aquatic hazard			
Acute Tox.	ons : : :	•			
Acute Tox. Aquatic Chronic	ons : : :	Long-term (chronic) aquatic hazard			
Acute Tox. Aquatic Chronic Eye Irrit.	ons : : : :	Long-term (chronic) aquatic hazard Eye irritation			
Acute Tox. Aquatic Chronic Eye Irrit. Flam. Sol.	: :	Long-term (chronic) aquatic hazard Eye irritation Flammable solids			
Acute Tox. Aquatic Chronic Eye Irrit. Flam. Sol. Skin Irrit.	: :	Long-term (chronic) aquatic hazard Eye irritation Flammable solids Skin irritation			
Acute Tox. Aquatic Chronic Eye Irrit. Flam. Sol. Skin Irrit. Skin Sens.	: :	Long-term (chronic) aquatic hazard Eye irritation Flammable solids Skin irritation Skin sensitisation			

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AllC - 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

according to Regulation (EC) No. 1907/2006



ULTRASTAR UV/LED FPG 78320 Silver

Version	Revision Date:	SDS Number:	Print Date: 29.03.2024
1.0	28.03.2024	102000035376	Date of first issue: 28.03.2024

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	Classification procedure:	
Skin Irrit. 2	H315	Calculation method
Eye Irrit. 2	H319	Calculation method
Skin Sens. 1	H317	Calculation method
Aquatic 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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