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	:	ULTRASTAR UV FP-8220 Silver
Product code	:	052466U30

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

Use of the	: Colorant; Printing ink related material; Printing ink
Substance/Mixture	

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	: <u>msds.eckart@altana.com</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 Short-term (acute) aquatic hazard, 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.
- H400: Very toxic to aquatic life.
- 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	:		
Signal	word	:	Warning	
Hazard	statements	:	H315 H317 H319 H410	Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Very 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	If skin irritation or rash occurs: Get medical
			P391	advice/ attention. Collect spillage.

Hazardous components which must be listed on the label:

hexamethylene diacrylate Poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.-[(1-oxo-2-propenyl)oxy]-, ether with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol (3:1) Bisphenol A epoxy acrylate Glycerol, propoxylated, esters with acrylic acid Propoxylated neopentyl glycol diacrylate esters 2-ethylhexyl acrylate

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

Componente			
Chemical name	CAS-No.	ClassificationREGUL	Concentration
	EC-No.	ATION (EC) No	(% w/w)
	Index-No.	1272/2008	. ,
	Registration number		
hexamethylene diacrylate	13048-33-4	Skin Irrit. 2; H315	>= 25 - < 50
	235-921-9	Eye Irrit. 2; H319	
	607-109-00-8	Skin Sens. 1; H317	
		Aquatic Acute 1;	

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		01-2119484737-22	H400 Aquatic Chronic 2; H411	
			M-Factor (Acute aquatic toxicity): 1	
hydro prope 2-(hyd	oxy-1,2-ethanediyl), .alpha omega[(1-oxo-2- enyl)oxy]-, ether with 2-ethyl- droxymethyl)-1,3- anediol (3:1)	28961-43-5 500-066-5 01-2119489900-30	Eye Irrit. 2; H319 Skin Sens. 1; H317 Aquatic Chronic 3; H412	>= 20 - <
	enol A epoxy acrylate	55818-57-0 500-130-2	Skin Sens. 1; H317 Aquatic Chronic 2; H411	>= 10 - <
2-hyd	roxy-2-methylpropiophenone	7473-98-5 231-272-0 01-2119472306-39	Acute Tox. 4; H302 Aquatic Chronic 3; H412	>= 2.5 - <
	erol, propoxylated, esters acrylic acid	52408-84-1 500-114-5	Eye Irrit. 2; H319 Skin Sens. 1; H317	>= 1 - < ′
alumii	nium powder (stabilised)	01-2119487948-12 7429-90-5 231-072-3 013-002-00-1	Flam. Sol. 1; H228	>=1-<'
-	oxylated neopentyl glycol /late esters	01-2119529243-45 84170-74-1 01-2119970213-43	Skin Sens. 1; H317 Aquatic Chronic 2; H411	>= 0.25 - ·
methy	roxy-1-(4-(4-(2-hydroxy-2- /lpropionyl)benzyl)phenyl)-2- /lpropan-1-one	474510-57-1 444-860-9 606-140-00-4 01-2119904050-59	STOT RE 2; H373 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 1	>= 0.25 - ·
2-ethy	/lhexyl acrylate	103-11-7 203-080-7 607-107-00-7	M-Factor (Chronic aquatic toxicity): 1 Skin Irrit. 2; H315 Skin Sens. 1; H317 STOT SE 3; H335	>= 0.1 - <
0.6 -1:	tort butul n areas	01-2119453158-37	(Respiratory system)	
2,6-di	-tert-butyl-p-cresol	128-37-0 204-881-4	Aquatic Acute 1; H400	>= 0.1 - < 0

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		01-2119555270-	46	H410 M-Factor (Acute aquatic toxicity): 1 M-Factor (Chronic aquatic toxicity): 1	

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid meas	sures
General advice	: 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	 If skin irritation persists, call a physician. If on skin, rinse well with water. If on clothes, remove clothes.
In case of eye contact	 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 a	and effects, both acute and delayed
	· Causaa akin irritatian

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

Unsuitable extinguishing	: High volume w	ater jet
media		

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5.2 Special hazards arising from the 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 for firefighters	:	Wear self-contained breathing apparatus for firefighting if necessary.
Further information	:	Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures							
Personal precautions :	Use personal protective equipment.						
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.						
6.3 Methods and material for contain	nment 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.						

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.					

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				regulations. Persons suscepti allergies, chronic	water in accordance with local and national ble to skin sensitisation problems or asthma, or recurrent respiratory disease should not ny process in which this mixture is being	
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 C	Conditi	ons for safe storage,	inc	luding any incom	patibilities	
Requirements for storage areas and containers		:	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.			
		information on e stability	:	No decomposition	n if stored and applied as directed.	
7.3 S	Specific	c end use(s)				

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

<u>.</u>							
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	4 mg/m3	GB EH40			
		fraction)	4 119/113	GB LTI40			
		TWA (inhalable	10 mg/m3	GB EH40			
		dust)					
	Further inform	nation: For the purpo	ses of these limits, respirable	e dust and			
	inhalable dust	inhalable dust are those fractions of airborne dust which will be collected					
	when samplin	a is undertaken in a	cordance with the methods	described in			
		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					
			5				
			ater than 10 mg.m-3 8-hour				
	inhalable dust	or 4 mg.m-3 8-hour :	TWA of respirable dust. This	s means that			
	any dust will b	any dust will be subject to COSHH if people are exposed to dust above these					
	levels. Some	dusts have been ass	igned specific WELs and ex	posure to these			
			limits., Most industrial dusts				
			The behaviour, deposition a				
			ne human respiratory system				
	response that	it elicits, depend on	the nature and size of the pa				

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	a r t c c s	and 'respirable material that e available for d to the fraction definitions and contain compo- should be con	e'., Inhalable dust a enters the nose and eposition in the res that penetrates to d explanatory mate onents that have the nplied with., Where	or limit-setting purposes term approximates to the fraction of a mouth during breathing and piratory tract. Respirable due the gas exchange region of t rial are given in MDHS14/4., leir own assigned WEL, all th no specific short-term expose n exposure limit should be us	f airborne is therefore st approximates he lung. Fuller Where dusts e relevant limits sure limit is liste ed.	
			TWA (Respirable dust)	4 mg/m3	GB EH40	
2 6-di-te	i V M r s c c i i a l r r F F r c c a r r a t c c s a a t c c s a a s c c s c c s c c s c c s c c s c c s c c s c c s c c s s c s s c s s c s s c s s c s s c s s s c s s c s s s s s s s s s s s c s	nhalable dust when samplin MDHS14/4 Ge respirable, tho substance haz concentration nhalable dust any dust will b evels. Some of must comply to particles of a v particular part response that distinguishes that distinguishes that and 'respirable material that e available for d to the fraction definitions and contain compo-	are those fraction g is undertaken in eneral methods for pracic and inhalable cardous to health in in air equal to or g or 4 mg.m-3 8-ho e subject to COSH dusts have been a with the appropriat wide range of sizes icle after entry into it elicits, depend of two size fractions f e., Inhalable dust et and size fractions f et appropriate that penetrates to d explanatory mate onents that have the nplied with., Where	oses of these limits, respirables of airborne dust which will be accordance with the methods is sampling and gravimetric an expression and gravimetric and expression and gravimetric and expression and gravimetric and the court of any kind where reater than 10 mg.m-3 8-hour ar TWA of respirable dust. The limits of the properties are exposed to designed specific WELs and expression and the nature and size of the provide the provide the fraction of the nature and size of the provide the gas exchange region of the trial are given in MDHS14/4., the no specific short-term exposed to the signed well, all the no specific short-term exposed to the trial are given in the should be used to the trial are given in the should be used to the trial are given in the should be used to the trial are given in the should be used to the trial are given in the should be used to the trial are given in the should be used to the trial are given in the should be used to the trial are given in the should be used to the trial are given the trial should be used to the trial shoul	the collected a described in alysis or inition of a a present at a r TWA of is means that ust above these contain and fate of any m, and the bod particle. HSE hed 'inhalable' of airborne is therefore at approximates he lung. Fuller Where dusts e relevant limits sure limit is liste	
2,6-di-te	2 .			10 mg/m3		
				pecific short-term exposure line exposure line exposure limit should be used		

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

Substance name	End Use	Exposure routes	Potential health effects	Value
hexamethylene diacrylate	Workers	Inhalation	Long-term systemic effects	24.48 mg/m3
	Workers	Dermal	Long-term systemic effects	2.77 mg/kg
	Consumers	Oral	Long-term systemic effects	2.08 mg/kg
	Consumers	Dermal	Long-term systemic effects	1.66 mg/kg
	Consumers	Inhalation	Long-term systemic	7.24 mg/m3

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sion)	Revision Date: 29.02.2024	SDS Nu 1020000		nt Date: 01.03.2024 te of first issue: 02.01.2014	
				effects	
Bisphe acrylat	enol A epoxy te	Workers	Inhalation	Long-term systemic effects	1.17 mg/m
		Workers	Dermal	Long-term systemic effects	33 mg/kg
		Consumers	Inhalation	Long-term systemic effects	0.29 mg/m
		Consumers	Dermal	Long-term systemic effects	16.67 mg/k
		Consumers	Oral	Long-term systemic effects	0.17 mg/kg
	oxy-2- Ipropiophenone	Workers	Dermal	Long-term systemic effects	1.25 mg/kg
		Workers	Inhalation	Long-term systemic effects	3.5 mg/m3
	rol, xylated, esters crylic acid	Workers	Inhalation	Long-term systemic effects	16.22 mg/n
		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
alumin (stabil	iium powder ised)	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
neope	xylated ntyl glycol late esters	Workers	Inhalation	Long-term systemic effects	32.9 mg/m3
		Workers	Dermal	Long-term systemic effects	46.7 mg/kg
2,6-di- cresol	tert-butyl-p-	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/n
		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
hexamethylene diacrylate	Soil	0.094 mg/kg

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		Fresh water	0.007 mg/l
		Marine water	0.001 mg/l
		STP	2.7 mg/l
		Marine sediment	0.049 mg/kg
Bisnh	enol A epoxy acrylate	Fresh water	0.045 mg/l
ызрп		Marine water	0.023 mg/l
		Intermittent Release	1 mg/l
		Fresh water sediment	8.96 mg/kg
		Marine sediment	0.896 mg/kg
		STP	10 mg/l
		Soil	1.78 mg/kg
2-byd	roxy-2-	Soil	0.000674 mg/
	/lpropiophenone		Ũ
		Fresh water	0.00195 mg/l
		Fresh water sediment	0.00514 mg/k
		clarification plant	45 mg/l
		Marine water	0.000195 mg/
		Marine sediment	0.000514 mg/
		Sporadic Release	0.0195 mg/l
	erol, propoxylated, esters 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/k
		STP	10 mg/l
		Soil	0.0011 mg/kg
alumii	nium powder (stabilised)	Fresh water	0.0749 mg/l
	· · · · · · · ·	clarification plant	20 mg/l
	oxylated neopentyl glycol /late esters	Fresh water	0.0027 mg/l
		Fresh water sediment	0.0638 mg/kg
		Marine water	0.00027 mg/l
		STP	0.1 mg/l
		Soil	0.0112 mg/kg
		Marine sediment	0.0064 mg/kg
		Sporadic Release	0.027 mg/l
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/k
		Soil	0.054 mg/kg
		Secondary Poisoning	8.33 mg/kg
		oral (secondary poisoning)	16.67 mg/kg

8.2 Exposure controls

Personal protective equipment

Eye/face protection

: Tightly fitting safety goggles Wear face-shield and protective suit for abnormal processing

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Hand	protection	problems.	
Remarks			or a specific workplace should be discussed ers of the protective gloves.
Skin a	and body protection	: Impervious cloth Choose body pr	

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
Flammability	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Flash point	:	> 100 °C
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
рН	:	substance/mixture is non-soluble (in water)
Viscosity, kinematic	:	No data available
Solubility(ies) Water solubility Solubility in other solvents	:	insoluble No data available
Partition coefficient: n- octanol/water	:	No data available
Vapour pressure	:	No data available

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Vano	r Pressure for Compone	nte ·		
•	amethylene diacrylate		< 0.01 hPa (20 °	°C)
.alp oxo witi (hy	ly(oxy-1,2-ethanediyl), bhahydroomega[(1- b-2-propenyl)oxy]-, ether n 2-ethyl-2- droxymethyl)-1,3- panediol (3:1)		0.0032 hPa (20	°C)
2-h	ydroxy-2-	:	0.0057 hPa (20	°C)
Gly	thylpropiophenone cerol, propoxylated, ers with acrylic acid	:	· ·	C) Test Guideline 104
2-е	thylhexyl acrylate	:	1.33 hPa	
Relati	ve density	:	No data available	9
Dens	ity	:	1.1 g/cm3	
Relati	ve vapour density	:	No data available	9
	ele characteristics article Size Distribution	:	No data available)
9.2 Other	information			

No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

No decomposition if stored and applied as directed.

10.2 Chemical stability

No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions Hazardous reactions : No decomposition if stored and applied as directed.

10.4 Conditions to avoid

Conditions to avoid : No data available

10.5 Incompatible materials

10.6 Hazardous decomposition products

This information is not available.

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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 oral toxicity	:	Acute toxicity estimate: > 2,000 mg/kg Method: Calculation method
---------------------	---	--

Components:

hexamethylene diacrylate:		
Acute oral toxicity	:	LD50 (Rat): > 5,000 mg/kg Method: OECD Test Guideline 401
Acute inhalation toxicity	:	(Rat): 0.14 mg/l Exposure time: 7 h
Acute dermal toxicity	:	LD50 (Rabbit): 3,650 mg/kg Method: OECD Test Guideline 402

2-hydroxy-2-methylpropiophenone:

Acute oral toxicity	:	Assessment: The component/mixture is moderately toxic after
		single ingestion.

aluminium powder (stabilised):

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

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

Acute oral toxicity	:	LD50 (Rat): > 2,000 mg/kg
Acute dermal toxicity	:	LD50 (Rat): > 2,000 mg/kg
2,6-di-tert-butyl-p-cresol: Acute oral toxicity	:	LD50 (Rat): > 5,000 mg/kg Method: OECD Test Guideline 401
Acute dermal toxicity	:	LD50 (Rat): > 5,000 mg/kg Method: OECD Test Guideline 402

Skin corrosion/irritation

Causes skin irritation.

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<u>Produ</u> Remar		:	May cause skin in	ritation and/or dermatitis.
Compo	onents:			
hexam Result	ethylene diacrylate:	:	Skin irritation	
2-ethyl Result	hexyl acrylate:	:	Skin irritation	
	i s eye damage/eye irri s serious eye irritation.	tati	on	
<u>Produ</u> Remar		:	May cause irrever	sible eye damage.
Comp	onents:			
hexam Result	ethylene diacrylate:	:	Eye irritation	
	e-(hydroxymethyl)-1,3-	-		(1-oxo-2-propenyl)oxy]-, ether with 2-
Glycer Result	ol, propoxylated, este	ers :	with acrylic acid: Eye irritation	
Respir	atory or skin sensitisa	atio	n	
Skin s	ensitisation ause an allergic skin rea			
-	atory sensitisation	ble	information.	
<u>Produ</u> Remar		:	Causes sensitisat	ion.
Comp	onents:			
hexam Result	ethylene diacrylate:	:	May cause sensiti	sation by skin contact.

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		xy-1,2-ethanediyl), . 2-(hydroxymethyl)-1,3		ega[(1-oxo-2-propenyl)oxy]-, ether with 2- :1):
	Result		: May cause	sensitisation by skin contact.
	Bisnh	enol A epoxy acrylat	te ·	
	Result			sensitisation by skin contact.
	Glycer	ol, propoxylated, es	sters with acrylic	acid:
	Result		: May cause	sensitisation by skin contact.
	2-ethy	hexyl acrylate:		
	Result		: May cause	sensitisation by skin contact.
		cell mutagenicity ssified based on ava	ilable information.	
		ogenicity ssified based on avai	ilable information.	
	•	ductive toxicity assified based on avai	ilable information.	
		- single exposure assified based on avai	ilable information.	
	<u>Comp</u>	onents:		
	2-ethy Asses	l hexyl acrylate: sment	: May cause	respiratory irritation.
		- repeated exposure assified based on ava		
	<u>Comp</u>	onents:		
	2-hydr Asses:		: The substa	onyl)benzyl)phenyl)-2-methylpropan-1-one: nce or mixture is classified as specific target organ beated exposure, category 2.
	-	tion toxicity ssified based on avai	ilable information.	
11.2	Inform	nation on other haza	ırds	
	Furthe	r information		
	<u>Produ</u> Remar		: No data ava	ailable



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SECTION 12: Ecological information

12.1 Toxicity

• •	TOXICITY			
	Components:			
	hexamethylene diacrylate: M-Factor (Short-term (acute) aquatic hazard)	:	1	
	Ecotoxicology Assessment Acute aquatic toxicity	:	Very toxic to aquatic life.	
	Chronic aquatic toxicity	:	Toxic to aquatic life with long lasting effects.	
	Poly(oxy-1,2-ethanediyl), .alphahydroomega[(1-oxo-2-propenyl)oxy]-, ether with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol (3:1):			
	Ecotoxicology Assessment			
		:	Harmful to aquatic life with long lasting effects.	
	Bisphenol A epoxy acrylate:			
	Ecotoxicology Assessment Acute aquatic toxicity	:	Toxic to aquatic life.	
	Chronic aquatic toxicity	:	Toxic to aquatic life with long lasting effects.	
	2-hydroxy-2-methylpropiophe	enc	one:	
	Ecotoxicology Assessment			
	Chronic aquatic toxicity	:	Harmful to aquatic life with long lasting effects.	
	2-hydroxy-1-(4-(4-(2-hydroxy-	-2-n	nethylpropionyl)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.	
	2,6-di-tert-butyl-p-cresol:			
	M-Factor (Short-term (acute)	:	1	
	aquatic hazard) M-Factor (Long-term	:	1	

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(chro	nic) aquatic hazard)		
Ecot	oxicology Assessme	nt	
Acute	e aquatic toxicity	: Very toxic t	o aquatic life.
Chro	nic aquatic toxicity	: Very toxic t	o aquatic life with long lasting effects.
	istence and degrada ata available	bility	
12.3 Bioa	ccumulative potentia	I	
<u>Com</u>	ponents:		
	erol, propoxylated, e	sters with acrylic	acid:
Partit	ion coefficient: n- nol/water	: log Pow: 2.	
	ility in soil ata available		
12.5 Resu	Ilts of PBT and vPvB	assessment	
Prod	uct:		
Asse	ssment	to be either	nce/mixture contains no components considered persistent, bioaccumulative and toxic (PBT), or ent and very bioaccumulative (vPvB) at levels of her.
	ocrine disrupting pro ata available	perties	
12.7 Othe	r adverse effects		
Prod	uct:		
	tional ecological mation	unprofessio	nental hazard cannot be excluded in the event of mal handling or disposal. o aquatic life.
			uatic life with long lasting effects.
<u>Com</u>	ponents:		
Glyc	erol, propoxylated, e	sters with acrylic	acid:
	tional ecological mation	: No data ava	ilable
2-eth	ylhexyl acrylate:		
	tional ecological mation	: No data ava	ailable

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SECTIO	N 13: Disposal consi	der	ations	
Euro	pean Waste Catalogue	:	08 03 12 - waste	ink containing dangerous substances
13.1 Was	te 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.	
Cont	aminated packaging	:	Empty remaining Dispose of as un Do not re-use em	used product.

SECTION 14: Transport information

14.1 UN number or ID number		
ADR	:	UN 3082
IMDG	:	UN 3082
ΙΑΤΑ	:	UN 3082
14.2 UN proper shipping name		
ADR	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (hexane-1,6-diol diacrylate)
IMDG	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (hexane-1,6-diol diacrylate)
ΙΑΤΑ	:	Environmentally hazardous substance, liquid, n.o.s. (hexane-1,6-diol diacrylate)
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 Number		III M6 90

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Labe Tunn	ls el restriction code	: 9 : (-)	
Labe	ing group	: III : 9 : F-A, S-F	
Pack aircra Pack	ing instruction (LQ)	: 964 : Y964	
Pack Labe	ing group Is	: III : 9	
Pack (pas: Pack	A (Passenger) ting instruction senger aircraft) ting instruction (LQ) ting group	: 964 : Y964 : III : 9	
14.5 Env	ronmental hazards		
ADR Envi	ronmentally hazardous	: yes	
IMD Marii	G ne pollutant	: yes	
14.6 Spe Rem	cial precautions for us arks	 For single packagings <=5L / 5 kg, or combination packagings containing inner packagings <= 5L / 5 kg net p 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	:	Conditions of restriction for the
the market and use of certain dangerous substances,		following entries should be
mixtures and articles (Annex XVII)		considered:

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				Number on list 3 hexamethylene diacrylate (Number on list 3) Poly(oxy-1,2-ethanediyl), .alpha hydroomega[(1-oxo-2- propenyl)oxy]-, ether with 2-ethyl-2- (hydroxymethyl)-1,3-propanediol (3:1) (Number on list 3) Bisphenol A epoxy acrylate (Number on list 3) 2-hydroxy-2-methylpropiophenone (Number on list 3) Glycerol, propoxylated, esters with acrylic acid (Number on list 3) aluminium powder (stabilised) (Number on list 40) Propoxylated neopentyl glycol diacrylate esters (Number on list 3) 2-ethylhexyl acrylate (Number on list 3)
	EACH Candidate list of ern (SVHC) for Authoris		h :	Not applicable
	Persistent Órganic Pollu lation (EU) 2019/1021 a n)		ned :	Not applicable
Regu	lation (EC) No 1005/200 te the ozone layer	9 on substances that	:	Not applicable
	EACH List of substance ex XIV)	es subject to authorisati	on :	Not applicable

15.2 Chemical safety assessment

No data available

SECTION 16: Other information

Full text of H-Statements

1,000		Elemental a sellat		
H228	:	Flammable solid.		
H302	:	Harmful if swallowed.		
H315	:	Causes skin irritation.		
H317	:	May cause an allergic skin reaction.		
H319	:	Causes serious eye irritation.		
H335	:	May cause respiratory irritation.		
H373	:	May cause damage to organs through prolonged or repeated		
		exposure.		
H400	:	Very toxic to aquatic life.		
H410	:	Very toxic to aquatic life with long lasting effects.		
H411	:	Toxic to aquatic life with long lasting effects.		
H412	:	Harmful to aquatic life with long lasting effects.		
Full text of other abbreviations				

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Aquation Eye Irri Flam. S Skin Irri Skin S STOT STOT GB EH	c Acute c Chronic it. Sol. it. ens. RE SE	Long-term (chro Eye irritation Flammable soli Skin irritation Skin sensitisati Specific target Specific target UK. EH40 WEL	

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 Verv 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:
Skin Irrit. 2	H315	Calculation method
Eye Irrit. 2	H319	Calculation method
Skin Sens. 1	H317	Calculation method

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•	tic Acute 1	H400	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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