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SECTION 1: Identification of the	e substance/mixture and of the con	npany/undertaking	
1.1. Product identifier Kisling - 4460			
UFI:	7XAD-J05R-X00K-2QVQ		
1.2. Relevant identified uses of the	substance or mixture and uses advise	ed against	
Use of the substance/mixture Adhesives and sealants Uses advised against No information available.			
1.3. Details of the supplier of the s	<u>afety data sheet</u>		
Manufacturer Company name: Street: Place: Telephone: E-mail: Internet:	Kisling AG Motorenstrasse 102 CH-8620 Wetzikon +41 58 272 0 272 customerservice@kisling.com www.kisling.com		
Supplier Company name: Street: Place: Telephone: E-mail: Contact person: E-mail: Internet:	Kisling (Deutschland) GmbH Salzstraße 15 D-74676 Niedernhall +49 7940 50961 61 customerservice@kisling.com Dr. Hans Götz compliance@kisling.com www.kisling.com	Telephone:+49 7940 5096 143	
<u>1.4. Emergency telephone</u> number:	24 hr. emergency phone number + Medicines & Poisons Info Office +3	· · · ·	
SECTION 2: Hazards identificat	ion		

Regulation (EC) No 1272/2008

Acute Tox. 4; H332 Eye Dam. 1; H318 Skin Sens. 1; H317

Full text of hazard statements: see SECTION 16.

2.2. Label elements

Regulation (EC) No 1272/2008

Hazard components for labelling

Methacrylic acid, monoester with propane-1,2-diol [2-(Methacryloyloxy)-ethyl]-hydrogen succininate 2-hydroxyethyl methacrylate tributylamine Propylidynetrimethanol, ethoxylated, esters with acrylic acid

Signal word: Danger



Kisling - 4460 Product code: 4460 Revision date: 04.03.2024 Page 2 of 17 Pictograms: Hazard statements H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H332 Harmful if inhaled. **Precautionary statements** P261 Avoid breathing dust/fume/gas/mist/vapours/sprav. P280 Wear protective gloves and eve/face protection. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 Immediately call a POISON CENTER/doctor. P333+P313 If skin irritation or rash occurs: Get medical advice/attention. P362+P364 Take off contaminated clothing and wash it before reuse. Labelling of packages where the contents do not exceed 125 ml Signal word: Danger Pictograms: Hazard statements

H317-H318

Precautionary statements

P261-P280-P305+P351+P338-P310-P333+P313-P362+P364

2.3. Other hazards

No information available.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

Mixture of substances listed below with nonhazardous components.



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Hazardous components

CAS No	Chemical name	Quantity			
	EC No	Index No	REACH No		
	Classification (Regulation (EC) N	o 1272/2008)			
40220-08-4	Tris (2-Hydroxyethyl) isocyanurat	e triacrylate		5 - < 15 %	
	254-843-6				
	Skin Irrit. 2, Eye Irrit. 2; H315 H31	9	•		
27813-02-1	Methacrylic acid, monoester with	propane-1,2-diol		5 - < 15 %	
	248-666-3				
	Eye Irrit. 2, Skin Sens. 1; H319 H	317	·		
20882-04-6	[2-(Methacryloyloxy)-ethyl]-hydrog	gen succininate		5 - < 15 %	
	244-096-4				
	Eye Dam. 1, Skin Sens. 1A; H318	3 H317	·		
80-15-9	alpha,alpha-dimethylbenzyl hydro	peroxide; cumene hydrope	eroxide	0.1 - < 1 %	
	201-254-7	617-002-00-8			
	Org. Perox. E, Acute Tox. 3, Acute Tox. 4, Acute Tox. 4, Skin Corr. 1B, STOT RE 2, Aquatic Chronic 2; H242 H331 H312 H302 H314 H373 H411				
868-77-9	2-hydroxyethyl methacrylate	0.1 - < 1 %			
	212-782-2	607-124-00-X	01-2119490169-29		
	Skin Irrit. 2, Eye Irrit. 2, Skin Sens	s. 1; H315 H319 H317			
102-82-9	tributylamine			0.1 - < 1 %	
	203-058-7				
	Acute Tox. 1, Acute Tox. 2, Acute	Tox. 4, Skin Irrit. 2, STOT	RE 1; H330 H310 H302 H315 H372		
114-83-0	2-phenylacetohydrazide			0.1 - < 1 %	
	204-055-3				
	Acute Tox. 3; H301				
28961-43-5	Propylidynetrimethanol, ethoxylat	ed, esters with acrylic acid		0.1 - < 1 %	
	500-066-5		01-2119489900-30		
	Eye Irrit. 2, Skin Sens. 1B; H319	H317	·		
79-10-7	acrylic acid; prop-2-enoic acid			0.1 - < 1 %	
	201-177-9	607-061-00-8			
	Flam. Liq. 3, Acute Tox. 4, Acute 1; H226 H332 H312 H302 H314 I				

Full text of H and EUH statements: see section 16.



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Quantity

5 - < 15 %

Specific Conc. Limits, M-factors and ATE CAS No EC No Chemical name Specific Conc. Limits, M-factors and ATE Specific Conc. Limits, M-factors and ATE 27813-02-1 248-666-3 Methacrylic acid, monoester with propane-1,2-diol dermal: LD50 = > 5000 mg/kg 20882-04-6 244-096-4 [2-(Methacryloyloxy)-ethyl]-hydrogen succininate

20882-04-6	244-096-4	[2-(Methacryloyloxy)-ethyl]-hydrogen succininate	5 - < 15 %
	oral: LD50 =	> 2000 mg/kg	
80-15-9	201-254-7	alpha,alpha-dimethylbenzyl hydroperoxide; cumene hydroperoxide	0.1 - < 1 %
	1100 mg/kg; c	rE = 3 mg/l (vapours); inhalation: ATE = 0.5 mg/l (dusts or mists); dermal: ATE = oral: LD50 = 382 mg/kg Skin Corr. 1B; H314: >= 10 - 100 Skin Irrit. 2; H315: >= 3 Dam. 1; H318: >= 3 - < 10 Eye Irrit. 2; H319: >= 1 - < 3 STOT SE 3; H335: >= 1 -	
868-77-9	212-782-2	2-hydroxyethyl methacrylate	0.1 - < 1 %
	dermal: LD50) = >3000 mg/kg; oral: LD50 = 5050 mg/kg	
102-82-9	203-058-7	tributylamine	0.1 - < 1 %
		C50 = 0,5 mg/l (vapours); inhalation: ATE = 0.005 mg/l (dusts or mists); dermal: ng/kg; oral: LD50 = 420 mg/kg	
114-83-0	204-055-3	2-phenylacetohydrazide	0.1 - < 1 %
	oral: LD50 = :	270 mg/kg	
28961-43-5	500-066-5	Propylidynetrimethanol, ethoxylated, esters with acrylic acid	0.1 - < 1 %
	dermal: LD50) = > 13200 mg/kg; oral: LD50 = > 2000 mg/kg	
79-10-7	201-177-9	acrylic acid; prop-2-enoic acid	0.1 - < 1 %
		FE = 11 mg/l (vapours); inhalation: ATE = 1.5 mg/l (dusts or mists); dermal: ATE = oral: LD50 = ca. 1000 - < 2000 mg/kg_STOT SE 3; H335: >= 1 - 100	

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Take off immediately all contaminated clothing.

After inhalation

Provide fresh air. When in doubt or if symptoms are observed, get medical advice.

After contact with skin

Wash with plenty of water. Take off contaminated clothing and wash it before reuse. After contact with skin, wash immediately with plenty of water and soap. In case of skin irritation, consult a physician.

After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water. Remove contact lenses, if present and easy to do. Continue rinsing.

After ingestion

Observe risk of aspiration if vomiting occurs. Rinse mouth immediately and drink 1 glass of of water. Do NOT induce vomiting. Get immediate medical advice/attention.

4.2. Most important symptoms and effects, both acute and delayed

No further relevant information available.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically. No further relevant information available.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings. Co-ordinate fire-fighting measures to the fire surroundings.



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Unsuitable extinguishing media

No information available.

5.2. Special hazards arising from the substance or mixture

Non-flammable. In case of fire and/or explosion do not breathe fumes.

5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General advice

Provide adequate ventilation. Wear breathing apparatus if exposed to vapours/dusts/aerosols.

6.2. Environmental precautions

Do not allow to enter into surface water or drains. Do not allow to enter into surface water or drains. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

6.3. Methods and material for containment and cleaning up

For cleaning up

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

6.4. Reference to other sections

Safe handling: see section 7 Personal protection equipment: see section 8 Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

No special handling advices are necessary.

Advice on protection against fire and explosion

No special fire protection measures are necessary.

Advice on general occupational hygiene

Take off contaminated clothing. Wash hands before breaks and after work. When using do not eat, drink, smoke, sniff.

Further information on handling

Keep only in the original container in a cool, well-ventilated place.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed.

Hints on joint storage

none

Further information on storage conditions

Store in a cool dry place. Protect from direct sunlight.

7.3. Specific end use(s)

No further relevant information available.

SECTION 8: Exposure controls/personal protection

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8.1. Control parameters

Occupational exposure limit values

CAS No	Name of agent	ppm	mg/m³	fib/cm³	Category	Origin
79-10-7	Acrylic acid; Prop-2-enoic acid	10	29		TWA (8 h)	
		20	59		STEL (1 min)	

DNEL/DMEL values

CAS No	Name of agent			
DNEL type		Exposure route	Effect	Value
40220-08-4	Tris (2-Hydroxyethyl) isocyanurate triacrylate			
Worker DNEL,	long-term	inhalation	systemic	1,65 mg/m³
Worker DNEL,	long-term	dermal	systemic	2,3 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	0,29 mg/m³
Consumer DN	EL, long-term	dermal	systemic	0,83 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	0,083 mg/kg bw/day
27813-02-1	Methacrylic acid, monoester with propane-1,2-die	ol		
Worker DNEL,	long-term	inhalation	systemic	14,7 mg/m³
Worker DNEL, long-term		dermal	systemic	4,2 mg/kg bw/day
Consumer DN	EL, long-term	inhalation	systemic	4,35 mg/m ³
Consumer DN	EL, long-term	dermal	systemic	2,5 mg/kg bw/day
Consumer DN	EL, long-term	oral	systemic	2,5 mg/kg bw/day
102-82-9	tributylamine			
Worker DNEL,	long-term	inhalation	systemic	5,3 mg/m³
Worker DNEL,	acute	inhalation	systemic	10,6 mg/m ³
Worker DNEL,	long-term	inhalation	local	15,2 mg/m³
Worker DNEL,	acute	inhalation	local	15,2 mg/m³
28961-43-5	Propylidynetrimethanol, ethoxylated, esters with	acrylic acid		
Worker DNEL,	long-term	inhalation	systemic	37 mg/m³
Worker DNEL,	long-term	dermal	systemic	10,5 mg/kg bw/day
79-10-7	acrylic acid; prop-2-enoic acid			
Worker DNEL,	long-term	inhalation	systemic	30 mg/m³
Worker DNEL,	acute	inhalation	systemic	30 mg/m ³
Worker DNEL,	long-term	inhalation	local	30 mg/m ³
Worker DNEL,	acute	inhalation	local	30 mg/m ³
Consumer DN	EL, long-term	inhalation	systemic	3,6 mg/m ³
Consumer DNEL, acute		inhalation	systemic	3,6 mg/m ³
Consumer DN	EL, long-term	inhalation	local	3,6 mg/m ³
Consumer DN	EL, acute	inhalation	local	3,6 mg/m ³
Consumer DN	EL, long-term	oral	systemic	0,4 mg/kg bw/day
Consumer DN		oral	systemic	1,2 mg/kg bw/day



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PNEC values

CAS No Name of agent	
Environmental compartment	Value
40220-08-4 Tris (2-Hydroxyethyl) isocyanurate triacrylate	
Freshwater	0,00943 mg/l
Freshwater (intermittent releases)	0,0943 mg/l
Marine water	0,000943 mg/l
Freshwater sediment	0,62 mg/kg
Marine sediment	0,062 mg/kg
Micro-organisms in sewage treatment plants (STP)	10 mg/l
Soil	0,118 mg/kg
27813-02-1 Methacrylic acid, monoester with propane-1,2-diol	
Freshwater	0,904 mg/l
Freshwater (intermittent releases)	0,972 mg/l
Marine water	0,09 mg/l
Freshwater sediment	6,28 mg/kg
Marine sediment	6,28 mg/kg
Micro-organisms in sewage treatment plants (STP)	10 mg/l
Soil	0,727 mg/kg
102-82-9 tributylamine	
Freshwater	0,008 mg/l
Freshwater (intermittent releases)	0,08 mg/l
Marine water	0,0008 mg/l
Freshwater sediment	35,85 mg/kg
Marine sediment	3,59 mg/kg
Micro-organisms in sewage treatment plants (STP)	100 mg/l
Soil	7,17 mg/kg
28961-43-5 Propylidynetrimethanol, ethoxylated, esters with acrylic a	cid
Freshwater	0,002 mg/l
Freshwater (intermittent releases)	0,019 mg/l
Marine water	0 mg/l
Freshwater sediment	0,038 mg/kg
Marine sediment	0,004 mg/kg
Micro-organisms in sewage treatment plants (STP)	10 mg/l
Soil	0,006 mg/kg
79-10-7 acrylic acid; prop-2-enoic acid	
Freshwater	0,003 mg/l
Freshwater (intermittent releases)	0,001 mg/l
Marine water	0,0003 mg/l
Freshwater sediment	0,024 mg/kg
Marine sediment	0,002 mg/kg
Secondary poisoning	30 mg/kg
Micro-organisms in sewage treatment plants (STP)	0,9 mg/l



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1 mg/kg

Soil

8.2. Exposure controls





Individual protection measures, such as personal protective equipment

Eye/face protection

Wear eye/face protection.

Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. Hand protection EN ISO 374

Breakthrough time: 480 min.

NR (natural rubber, Natural latex) I, Viton, CR (polychloroprene, chloroprene rubber) I, NBR (Nitrile rubber) I, Butyl caoutchouc (butyl rubber) I/II

Breakthrough time: 240 min.

CR (polychloroprene, chloroprene rubber) II, NBR (Nitrile rubber) V/VI

Tested protective gloves must be worn.

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Skin protection

Use of protective clothing. Wear suitable protective clothing. The type of personal protection equipment has to be chosen based on the concentration and amount of the dangerous substance at the workplace.

Respiratory protection

In case of inadequate ventilation wear respiratory protection. If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

. I. Information on pasic physical and cher	incal properties		
Physical state:	Liquid		
Colour:	green		
Odour:	characteristic		
Odour threshold:	not determined		
			Test method
Melting point/freezing point:		not determined	
Boiling point or initial boiling point and		>200 °C	
boiling range:			
Flammability:		not applicable	
Lower explosion limits:		not determined	
Upper explosion limits:		not determined	
Flash point:		>100 °C	
Auto-ignition temperature:		not determined	
Decomposition temperature:		not determined	
pH-Value:		not determined	
Viscosity / kinematic:		not determined	



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Water solubility:	practically insoluble	
Solubility in other solvents		
not determined		
Partition coefficient n-octanol/water:	not determined	
Vapour pressure:	not determined	
Density (at 20 °C):	1,1 g/cm ³	
Relative density:	not determined	
Relative vapour density:	not determined	
9.2. Other information		
Information with regard to physical hazard classes		
Explosive properties		
The product is not: Explosive.		
Oxidizing properties		
not determined		
Other safety characteristics		
Evaporation rate:	not determined	
Solid content:	not determined	
Viscosity / dynamic:	10000-16000 mPa·s	Brookfield 5/20
(at 25 °C)		

10.1. Reactivity

No further relevant information available.

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

No known hazardous reactions.

10.4. Conditions to avoid

The product is chemically stable under recommended conditions of storage, use and temperature.

10.5. Incompatible materials

No further relevant information available.

10.6. Hazardous decomposition products

No further relevant information available.

SECTION 11: Toxicological information

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

Toxicocinetics, metabolism and distribution

No data available

Acute toxicity

Harmful if inhaled.

ATEmix calculated

ATE (oral) 67669 mg/kg; ATE (dermal) 39796 mg/kg; ATE (inhalation vapour) 77.50 mg/l; ATE (inhalation dust/mist) 1.001 mg/l



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CAS No	Chemical name									
	Exposure route	Dose		Species	Source	Method				
27813-02-1	Methacrylic acid, monoe	ster with prop	ane-1,2-diol							
	dermal	LD50 mg/kg	> 5000	Rabbit	Study report (1982)	The test substance, as received, was hel				
20882-04-6	[2-(Methacryloyloxy)-ethyl]-hydrogen succininate									
	oral	LD50 mg/kg	> 2000	Rat	Study report (2016)	OECD Guideline 423				
80-15-9	alpha,alpha-dimethylben	zyl hydropero	xide; cumer	ne hydroperoxide						
	oral	LD50 mg/kg	382	Rat	IUCLID					
	dermal	ATE mg/kg	1100							
	inhalation vapour	ATE	3 mg/l							
	inhalation dust/mist	ATE	0.5 mg/l							
868-77-9	2-hydroxyethyl methacry	/late		I		-				
	oral	LD50 mg/kg	5050	Rat	Pre-supplier/manufact urer					
	dermal	LD50 mg/kg	>3000	Rabbit	Pre-supplier/manufact urer					
102-82-9	tributylamine									
	oral	LD50 mg/kg	420	Rat	Publication (1974)	Method: acute oral toxicity test Screeni				
	dermal	LD50 mg/kg	195	Rabbit	Publication (1974)	Method: acute dermal toxicity Screening				
	inhalation (4 h) vapour	LC50	0,5 mg/l	Rat	Study report (1987)	OECD Guideline 403				
	inhalation dust/mist	ATE mg/l	0.005							
114-83-0	2-phenylacetohydrazide									
	oral	LD50 mg/kg	270	Mouse	Pre-supplier/manufact urer					
28961-43-5	Propylidynetrimethanol, ethoxylated, esters with acrylic acid									
	oral	LD50 mg/kg	> 2000	Rat	Study report (1998)	OECD Guideline 401				
	dermal	LD50 mg/kg	> 13200	Rabbit	Study report (1984)	An acute dermal toxicity study was perfo				
79-10-7	acrylic acid; prop-2-enoi	c acid								
	oral	LD50 - < 2000 mg	ca. 1000 /kg	Rat	Study report (2015)	OECD Guideline 423				
	dermal	ATE mg/kg	1100							
	inhalation vapour	ATE	11 mg/l							
	inhalation dust/mist	ATE	1.5 mg/l							

Irritation and corrosivity

Causes serious eye damage.

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

Sensitising effects



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May cause an allergic skin reaction. (Methacrylic acid, monoester with propane-1,2-diol; [2-(Methacryloyloxy) -ethyl]-hydrogen succininate; 2-hydroxyethyl methacrylate; Propylidynetrimethanol, ethoxylated, esters with acrylic acid)

Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met.

STOT-single exposure

Based on available data, the classification criteria are not met.

STOT-repeated exposure

Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

Specific effects in experiment on an animal

No data available

Additional information on tests

No data available

Practical experience

May be harmful if swallowed, in contact with skin or if inhaled.

11.2. Information on other hazards

Further information

The mixture is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

SECTION 12: Ecological information

12.1. Toxicity

Based on available data, the classification criteria are not met.



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CAS No	Chemical name									
	Aquatic toxicity	Dose		[h] [d]	Species	Source	Method			
40220-08-4	Tris (2-Hydroxyethyl) isoc	yanurate tri	acrylate							
	Acute fish toxicity	LC50 mg/l	9,43	96 h	Danio rerio	Study report (2019)	OECD Guideline 203			
	Acute algae toxicity	ErC50 mg/l	25,7	72 h	Raphidocelis subcapitata	Study report (2017)	OECD Guideline 201			
	Acute crustacea toxicity	EC50 mg/l	158,3	48 h	Daphnia magna	Study report (2017)	OECD Guideline 202			
27813-02-1	Methacrylic acid, monoes	ter with pro	pane-1,2-diol							
	Acute fish toxicity	LC50 mg/l	> 100	96 h	Oryzias latipes	Study report (1997)	OECD Guideline 203			
	Acute algae toxicity	ErC50 mg/l	> 97,2	72 h	Raphidocelis subcapitata	REACh Registration Dossier	OECD Guideline 201			
	Acute crustacea toxicity	EC50 mg/l	> 143	48 h	Daphnia magna	REACh Registration Dossier	OECD Guideline 202			
	Crustacea toxicity	NOEC mg/l	45,2	21 d	Daphnia magna	REACh Registration Dossier	OECD Guideline 211			
20882-04-6	[2-(Methacryloyloxy)-ethyl]-hydrogen succininate									
	Acute algae toxicity	ErC50 mg/l	>= 197	72 h	Pseudokirchneriella subcapitata	Study report (2016)	OECD Guideline 201			
	Acute crustacea toxicity	EC50 mg/l	> 515,4	48 h	Daphnia magna	Study report (2016)	OECD Guideline 202			
	Algae toxicity	NOEC mg/l	>= 197	3 d	Pseudokirchneriella subcapitata	Pre-supplier/manu facturer	OECD 201			
	Crustacea toxicity	NOEC mg/l	> 515,4	2 d	Daphnia magna	Pre-supplier/manu facturer	OECD 202			
868-77-9	2-hydroxyethyl methacrylate									
	Acute fish toxicity	LC50	227 mg/l	96 h	Pimephales promelas	Pre-supplier/manu facturer				
	Acute crustacea toxicity	EC50 mg/l	>380	48 h	Daphnia magna (Big water flea)	Pre-supplier/manu facturer				
102-82-9	tributylamine									
	Acute fish toxicity	LC50 mg/l	16,3	96 h	Oryzias latipes	Study report (2000)	other: Testing Methods for Industrial Wa			
	Acute algae toxicity	ErC50 mg/l	10,1	72 h	Raphidocelis subcapitata	REACh Registration Dossier	OECD Guideline 201			
	Acute crustacea toxicity	EC50	8 mg/l	48 h	Daphnia magna (Big water flea)	Pre-supplier/manu facturer	OECD 202			
28961-43-5	Propylidynetrimethanol, e	thoxylated,	esters with a	crylic aci	d					
	Acute fish toxicity	LC50 mg/l	1,95	96 h	Danio rerio	REACh Registration Dossier	OECD Guideline 203			
	Acute algae toxicity	ErC50	2,2 mg/l	72 h	Desmodesmus subspicatus	REACh Registration Dossier	OECD Guideline 201			



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	Acute crustacea toxicity	EC50 mg/l	70,7	48 h	Daphnia magna	REACh Registration Dossier	OECD Guideline 202	
79-10-7	acrylic acid; prop-2-enoic	acid						
	Acute algae toxicity	ErC50 mg/l	0,13	72 h	Desmodesmus subspicatus	Chemosphere 45: 653-658 (1994)	EU Method C.3	
	Fish toxicity	NOEC mg/l	>= 10,1	45 d	Oryzias latipes	REACh Registration Dossier	OECD Guideline 210	
	Crustacea toxicity	NOEC	19 mg/l	21 d	Daphnia magna	Chemosphere 40: 29-38 (1996)	EPA OTS 797.1330	

12.2. Persistence and degradability

No data available

CAS No	Chemical name						
	Method	Value	d	Source			
	Evaluation						
20882-04-6	[2-(Methacryloyloxy)-ethyl]-hydrogen succininate						
	aerobic	>80%	28	Pre-supplier/manufactur er			
	Readily biodegradable (according to OECD criteria).						
102-82-9	tributylamine						
	OECD 301B	88 %	28	Pre-supplier/manufactur er			
	Readily biodegradable (according to OECD criteria).						

12.3. Bioaccumulative potential

No data available

Partition coefficient n-octanol/water

CAS No	Chemical name			
40220-08-4	Tris (2-Hydroxyethyl) isocyanurate triacrylate	1,09		
27813-02-1	Methacrylic acid, monoester with propane-1,2-diol	0,97		
20882-04-6	[2-(Methacryloyloxy)-ethyl]-hydrogen succininate	0,782		
868-77-9	2-hydroxyethyl methacrylate	0,47		
102-82-9	tributylamine	3,338		
28961-43-5	Propylidynetrimethanol, ethoxylated, esters with acrylic acid	2,89		
79-10-7	acrylic acid; prop-2-enoic acid	0,46		

BCF

CAS No	Chemical name	BCF	Species	Source
102-82-9	tributylamine	7,3	Cyprinus carpio	REACh Registration D
79-10-7	acrylic acid; prop-2-enoic acid	3,162		Unpublished calculat

12.4. Mobility in soil

No further relevant information available.

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII. The product has not been tested.

12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

12.7. Other adverse effects



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Further information

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Dispose of waste according to applicable legislation.

List of Wastes Code - residues/unused products

080410 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU of adhesives and sealants (including waterproofing products); waste adhesives and sealants other than those mentioned in 08 04 09

List of Wastes Code - used product

080410 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU of adhesives and sealants (including waterproofing products); waste adhesives and sealants other than those mentioned in 08 04 09

List of Wastes Code - contaminated packaging

080410 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU of adhesives and sealants (including waterproofing products); waste adhesives and sealants other than those mentioned in 08 04 09

Contaminated packaging

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number or ID number:14.2. UN proper shipping name:14.3. Transport hazard class(es):14.4. Packing group:

Inland waterways transport (ADN)

14.1. UN number or ID number:

14.2. UN proper shipping name:

14.3. Transport hazard class(es):

14.4. Packing group:

Marine transport (IMDG)

<u>14.1. UN number or ID number:</u> 14.2. UN proper shipping name:

14.3. Transport hazard class(es):

14.4. Packing group:

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number or ID number: 14.2. UN proper shipping name:

14.3. Transport hazard class(es): 14.4. Packing group:

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS:

No

No dangerous good in sense of this transport regulation. No dangerous good in sense of this transport regulation. No dangerous good in sense of this transport regulation. No dangerous good in sense of this transport regulation.

No dangerous good in sense of this transport regulation. No dangerous good in sense of this transport regulation. No dangerous good in sense of this transport regulation. No dangerous good in sense of this transport regulation.

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14.6. Special precautions for user

No information available.

14.7. Maritime transport in bulk according to IMO instruments not applicable

SECTION 15: Regulatory information

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

EU regulatory information

Restrictions on use (REACH, annex XVII): Entry 3, Entry 75

2010/75/EU (VOC): Information according to 2012/18/EU (SEVESO III):

18.707 % (205.782 g/l) Not subject to 2012/18/EU (SEVESO III)

National regulatory information

Water hazard class (D):

2 - obviously hazardous to water

15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information



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Abbreviations and acronyms CLP: Classification, labelling and Packaging REACH: Registration, Evaluation and Authorization of Chemicals GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals **UN: United Nations** CAS: Chemical Abstracts Service **DNEL: Derived No Effect Level** DMEL: Derived Minimal Effect Level PNEC: Predicted No Effect Concentration ATE: Acute toxicity estimate LC50: Lethal concentration, 50% LD50: Lethal dose, 50% LL50: Lethal loading, 50% EL50: Effect loading, 50% EC50: Effective Concentration 50% ErC50: Effective Concentration 50%, growth rate NOEC: No Observed Effect Concentration BCF: Bio-concentration factor PBT: persistent, bioaccumulative, toxic vPvB: very persistent, very bioaccumulative ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) RID: Regulations concerning the international carriage of dangerous goods by rail ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures) IMDG: International Maritime Code for Dangerous Goods EmS: Emergency Schedules MFAG: Medical First Aid Guide IATA: International Air Transport Association ICAO: International Civil Aviation Organization MARPOL: International Convention for the Prevention of Marine Pollution from Ships IBC: Intermediate Bulk Container VOC: Volatile Organic Compounds SVHC: Substance of Very High Concern For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations). Org. Perox: Organic peroxide Flam. Liq: Flammable liquid Acute Tox: Acute toxicity Skin Corr: Skin corrosion Skin Irrit: Skin irritation Eye Dam: Eye damage Eye Irrit: Eye irritation Skin Sens: Skin sensitisation STOT SE: Specific target organ toxicity - single exposure STOT RE: Specific target organ toxicity - repeated exposure Aquatic Acute: Acute aquatic hazard Aquatic Chronic: Chronic aquatic hazard Classification for mixtures and used evaluation method according to Regulation (EC) No 1272/2008 [CLP]

Classification	Classification procedure
Acute Tox. 4; H332	Calculation method
Eye Dam. 1; H318	Calculation method
Skin Sens. 1; H317	Calculation method



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Relevant H and EUH statements (number and full text)

H226	Flammable liquid and vapour.
H242	Heating may cause a fire.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H310	Fatal in contact with skin.
H312	Harmful in contact with skin.
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.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H372	Causes damage to organs through prolonged or repeated exposure.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.

Further Information

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations. The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

Identified uses

No	Short title	LCS	SU	PC	PROC	ERC	AC	TF	Specification
1	Adhesives and sealants	PW, C	6a, 6b, 12, 18, 19	1	11, 19	4, 8a, 8c, 8d	4e, 4g, 5c, 6g, 7c, 7g, 8, 10, 11, 13	110	K+D
LCS: L	LCS: Life cycle stages SI					lse			
PC: Product categories				F	PROC: Process categories				
ERC: Environmental release categories				A	AC: Article categories				
TF: Te	TF: Technical functions								

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)