

Safety Data Sheet

according to Regulation (EC) No 1907/2006

4460 Retaining Compound heat resistant and high strength HV

Revision: 27.01.2026

Product code: 4460

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

1.1. Product identifier

4460 Retaining Compound heat resistant and high strength HV

Product group:

UFI: 7XAD-J05R-X00K-2QVQ

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

Use of the substance/mixture

Adhesives and sealants

Uses advised against

No information available.

1.3. Details of the supplier of the safety data sheet

Manufacturer

Company name: Kisling AG
Street: Motorenstrasse 102
Place: CH-8620 Wetzikon
Telephone: +41 58 272 0 272
E-mail: customerservice@kisling.com
Contact person: Product Compliance Telephone: +49 7940 5096 143
E-mail (Contact person): compliance@kisling.com
Internet: www.kisling.com

Supplier

Company name: Kisling (Deutschland) GmbH
Street: Salzstraße 15
Place: D-74676 Niedernhall
Telephone: +49 7940 50961 61
E-mail: customerservice@kisling.com
Contact person: Product Compliance Telephone: +49 7940 5096 143
E-mail Contact person: compliance@kisling.com
Internet: www.kisling.com

1.4. Emergency telephone number: 24 hr. emergency phone number +1 872 5888271 (KAR)
Medicines & Poisons Info Office +356 2545 6508

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

Acute Tox. 4; H332
Eye Dam. 1; H318
Skin Sens. 1; H317
Aquatic Chronic 4; H413

Full text of hazard statements: see SECTION 16.

2.2. Label elements

Regulation (EC) No 1272/2008

Hazard components for labelling

Reaction mass of (2,4,6-trioxo-1,3,5-triazine-1,3,5-(2H,4H,6H)-triy)tri-2,1-ethanediyl triacrylate and 2-Propenoic acid, 1,1'-[[dihydro-5-(2-hydroxyethyl)-2,4,6-trioxo-1,3,5-triazine-1,3(2H,4H)-diyl]di-2,1-ethanediyl] ester
Methacrylic acid, monoester with propane-1,2-diol
[2-(Methacryloyloxy)-ethyl]-hydrogen succinate
2-hydroxyethyl methacrylate

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tributylamine
 Propylidynetrimethanol, ethoxylated, esters with acrylic acid
 2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, reaction products with phosphorus oxide

Signal word: Danger

Pictograms:



Hazard statements

- H317 May cause an allergic skin reaction.
 H318 Causes serious eye damage.
 H332 Harmful if inhaled.
 H413 May cause long lasting harmful effects to aquatic life.

Precautionary statements

- P261 Avoid breathing Vapour.
 P280 Wear protective gloves and eye protection/face protection.
 P302+P352 IF ON SKIN: Wash with plenty of water and soap.
 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.

Labelling of packages where the contents do not exceed 125 ml

Signal word: Danger

Pictograms:



Hazard statements

H317-H318-H413

Precautionary statements

P261-P280-P302+P352-P305+P351+P338-P310-P333+P313

2.3. Other hazards

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

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

Mixtures

Relevant ingredients

CAS No	Chemical name	Quantity
	EC No	Index No
		REACH No
	Classification (Regulation (EC) No 1272/2008)	
88403-03-6	Reaction mass of (2,4,6-trioxo-1,3,5-triazine-1,3,5(2H,4H,6H)-triy)tri-2,1-ethanediyl triacrylate and 2-Propenoic acid, 1,1'-[[dihydro-5-(2-hydroxyethyl)-2,4,6-trioxo-1,3,5-triazine-1,3(2H,4H)-diyl]di-2,1-ethanediyl] ester	5 - < 15 %
	915-672-9	01-2120769731-47
	Skin Irrit. 2, Eye Dam. 1, Skin Sens. 1, Aquatic Chronic 3; H315 H318 H317 H412	

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CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (Regulation (EC) No 1272/2008)			
27813-02-1	Methacrylic acid, monoester with propane-1,2-diol			5 - < 15 %
	248-666-3		01-2119490226-37	
	Eye Irrit. 2, Skin Sens. 1; H319 H317			
20882-04-6	[2-(Methacryloyloxy)-ethyl]-hydrogen succinate			5 - < 15 %
	244-096-4		01-2120137902-58	
	Eye Dam. 1, Skin Sens. 1A; H318 H317			
80-15-9	cumene hydroperoxide			0.1 - < 1 %
	201-254-7	617-002-00-8	01-2119475796-19	
	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. 1; H315 H319 H317			
102-82-9	tributylamine			0.1 - < 1 %
	203-058-7		01-2119474898-14	
	Acute Tox. 1, Acute Tox. 2, Acute Tox. 4, Skin Irrit. 2; H330 H310 H302 H315			
114-83-0	2-phenylacetohydrazide			0.1 - < 1 %
	204-055-3			
	Acute Tox. 3; H301			
28961-43-5	Propylidynetrimethanol, ethoxylated, esters with acrylic acid			0.1 - < 1 %
	500-066-5		01-2119489900-30	
	Eye Irrit. 2, Skin Sens. 1B, Aquatic Chronic 2; H319 H317 H411			
1187441-1 0-6	2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, reaction products with phosphorus oxide			0.1 - < 1 %
	810-703-1		01-2120140608-57	
	Eye Dam. 1, Skin Sens. 1; H318 H317			
128-37-0	2,6-di-tert-butyl-p-cresol			0.1 - < 1 %
	204-881-4		01-2119565113-46	
	Aquatic Acute 1, Aquatic Chronic 1; H400 H410			
79-10-7	acrylic acid			0.1 - < 1 %
	201-177-9	607-061-00-8		
	Flam. Liq. 3, Acute Tox. 4, Acute Tox. 4, Acute Tox. 4, Skin Corr. 1A, Eye Dam. 1, STOT SE 3, Aquatic Acute 1, Aquatic Chronic 2; H226 H332 H312 H302 H314 H318 H335 H400 H411			

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

Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
		Specific Conc. Limits, M-factors and ATE	
27813-02-1	248-666-3	Methacrylic acid, monoester with propane-1,2-diol	5 - < 15 %
		dermal: LD50 = > 5000 mg/kg; oral: LD50 = > 5000 mg/kg	
20882-04-6	244-096-4	[2-(Methacryloyloxy)-ethyl]-hydrogen succinate	5 - < 15 %
		oral: LD50 = > 2000 mg/kg	
80-15-9	201-254-7	cumene hydroperoxide	0.1 - < 1 %
		inhalation: ATE = 3 mg/l (vapours); inhalation: ATE = 0,5 mg/l (dusts or mists); dermal: ATE = 1100 mg/kg; oral: LD50 = 382 mg/kg Skin Corr. 1B; H314: >= 10 - 100 Skin Irrit. 2; H315: >= 3 - < 10 Eye Dam. 1; H318: >= 3 - < 10 Eye Irrit. 2; H319: >= 1 - < 3 STOT SE 3; H335: >= 1 - < 10	

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Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
		Specific Conc. Limits, M-factors and ATE	
868-77-9	212-782-2	2-hydroxyethyl methacrylate	0.1 - < 1 %
		dermal: LD50 = > 5000 mg/kg; oral: LD50 = 5564 mg/kg	
102-82-9	203-058-7	tributylamine	0.1 - < 1 %
		inhalation: LC50 = 0.5 mg/l (vapours); inhalation: ATE = 0,005 mg/l (dusts or mists); dermal: LD50 = 195 mg/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	
1187441-1 0-6	810-703-1	2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, reaction products with phosphorus oxide	0.1 - < 1 %
		dermal: LD50 = > 2000 mg/kg; oral: LD50 = > 2000 mg/kg	
128-37-0	204-881-4	2,6-di-tert-butyl-p-cresol	0.1 - < 1 %
		dermal: Data lacking; oral: LD50 = > 6000 mg/kg Aquatic Chronic 1; H410: M=1	
79-10-7	201-177-9	acrylic acid	0.1 - < 1 %
		inhalation: ATE = 11 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists); dermal: ATE = 1100 mg/kg; oral: ATE = 500 mg/kg STOT SE 3; H335: >= 1 - 100	

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

No special measures are necessary.

After inhalation

Provide fresh air.

After contact with skin

Gently wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention.

After ingestion

Do NOT induce vomiting. Rinse mouth thoroughly with water. IF SWALLOWED: Immediately call a doctor.

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

Irritant — skin irritation and eye damage
May cause respiratory irritation. Dyspnoea.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

alcohol resistant foam, Carbon dioxide (CO₂), Dry extinguishing powder

Unsuitable extinguishing media

Full water jet.

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products, Flammable vapours can accumulate in steam space of closed systems.

5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing.

Additional information

Co-ordinate fire-fighting measures to the fire surroundings. Use water spray jet to protect personnel and to cool

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endangered containers. Evacuate area.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General advice

Use personal protection equipment. See protective measures under point 7 and 8.

6.2. Environmental precautions

Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up

For containment

Prevent spread over a wide area (e.g. by containment or oil barriers). Retain contaminated washing water and dispose it. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

For cleaning up

Soak up inert absorbent and dispose as waste requiring special attention.

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

Use only in well-ventilated areas. Keep away from sources of ignition - No smoking.

Avoid contact with skin, eyes and clothes. People who suffer from skin sensitization problems, asthma, allergies, chronic or recurring respiratory illnesses should not be deployed in any process using this mixture.

Advice on general occupational hygiene

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat, drink, smoke, sniff.

Further information on handling

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

Never use pressure to empty container. Do not allow to enter into surface water or drains.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed and in a well-ventilated place.

Hints on joint storage

No special measures are necessary.

Further information on storage conditions

No special measures are necessary.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limit values

CAS No	Name of agent	ppm	mg/m ³	fib/cm ³	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	Exposure route	Effect	Value
DNEL type				

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DNEL/DMEL values

CAS No	Name of agent	Exposure route	Effect	Value
27813-02-1	Methacrylic acid, monoester with propane-1,2-diol			
Worker DNEL, long-term		inhalation	systemic	14.7 mg/m ³
Worker DNEL, long-term		dermal	systemic	4.2 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	4.35 mg/m ³
Consumer DNEL, long-term		dermal	systemic	2.5 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	2.5 mg/kg bw/day
80-15-9	cumene hydroperoxide			
Worker DNEL, long-term		inhalation	systemic	6 mg/m ³
868-77-9	2-hydroxyethyl methacrylate			
Worker DNEL, long-term		inhalation	systemic	4.9 mg/m ³
Worker DNEL, long-term		dermal	systemic	1.39 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	1.45 mg/m ³
Consumer DNEL, long-term		dermal	systemic	0.83 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	0.83 mg/kg bw/day
102-82-9	tributylamine			
Worker DNEL, long-term		inhalation	systemic	5.3 mg/m ³
Worker DNEL, acute		inhalation	systemic	10.6 mg/m ³
Worker DNEL, long-term		inhalation	local	15.2 mg/m ³
Worker DNEL, acute		inhalation	local	15.2 mg/m ³
28961-43-5	Propylidynetrimethanol, ethoxylated, esters with acrylic acid			
Worker DNEL, long-term		inhalation	systemic	37 mg/m ³
Worker DNEL, long-term		dermal	systemic	10.5 mg/kg bw/day
1187441-10-6	2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, reaction products with phosphorus oxide			
Worker DNEL, long-term		inhalation	systemic	7.05 mg/m ³
Worker DNEL, long-term		dermal	systemic	1 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	3.53 mg/m ³
Consumer DNEL, long-term		dermal	systemic	0.5 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	0.5 mg/kg bw/day
128-37-0	2,6-di-tert-butyl-p-cresol			
Worker DNEL, long-term		inhalation	systemic	1.76 mg/m ³
Worker DNEL, long-term		dermal	systemic	0.5 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	0.435 mg/m ³
Consumer DNEL, long-term		dermal	systemic	0.25 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	0.25 mg/kg bw/day
79-10-7	acrylic acid			
Worker DNEL, long-term		inhalation	systemic	30 mg/m ³
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 DNEL, long-term		inhalation	systemic	3.6 mg/m ³
Consumer DNEL, acute		inhalation	systemic	3.6 mg/m ³
Consumer DNEL, long-term		inhalation	local	3.6 mg/m ³
Consumer DNEL, acute		inhalation	local	3.6 mg/m ³
Consumer DNEL, long-term		oral	systemic	0.4 mg/kg bw/day
Consumer DNEL, acute		oral	systemic	1.2 mg/kg bw/day

PNEC values

CAS No	Name of agent	Value
	Environmental compartment	

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PNEC values

CAS No	Name of agent	Value
Environmental compartment		
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
80-15-9	cumene hydroperoxide	
Freshwater		0.003 mg/l
Freshwater (intermittent releases)		0.031 mg/l
Marine water		0 mg/l
Freshwater sediment		0.023 mg/kg
Marine sediment		0.002 mg/kg
Micro-organisms in sewage treatment plants (STP)		0.35 mg/l
Soil		0.003 mg/kg
868-77-9	2-hydroxyethyl methacrylate	
Freshwater		0.482 mg/l
Freshwater (intermittent releases)		1 mg/l
Marine water		0.048 mg/l
Freshwater sediment		3.79 mg/kg
Marine sediment		3.79 mg/kg
Micro-organisms in sewage treatment plants (STP)		10 mg/l
Soil		0.476 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 acid	
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
1187441-10-6	2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, reaction products with phosphorus oxide	
Freshwater		0.165 mg/l
Freshwater (intermittent releases)		1.65 mg/l
Marine water		0.017 mg/l
Freshwater sediment		2.8 mg/kg
Marine sediment		0.28 mg/kg
Micro-organisms in sewage treatment plants (STP)		0.4 mg/l
Soil		0.46 mg/kg

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PNEC values

CAS No	Name of agent	Value
Environmental compartment		
128-37-0	2,6-di-tert-butyl-p-cresol	
Freshwater		0.000199 mg/l
Freshwater (intermittent releases)		0.00199 mg/l
Marine water		0.00002 mg/l
Freshwater sediment		0.458 mg/kg
Marine sediment		0.046 mg/kg
Secondary poisoning		16.67 mg/kg
Micro-organisms in sewage treatment plants (STP)		0.017 mg/l
Soil		0.054 mg/kg
79-10-7	acrylic 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
Soil		1 mg/kg

8.2. Exposure controls



Appropriate engineering controls

Provide adequate ventilation as well as local exhaust at critical locations.

Individual protection measures, such as personal protective equipment

Eye/face protection

Wear eye/face protection.

Hand protection

Tested protective gloves must be worn (EN ISO 374)
Breakthrough times and swelling properties of the material must be taken into consideration.
NBR (Nitrile rubber) 0,4 mm, Breakthrough time: 480 min

Skin protection

Avoid contact with skin, eyes and clothes.

Respiratory protection

In case of inadequate ventilation wear respiratory protection. Filter type: A/P2

Environmental exposure controls

Do not allow to enter into surface water or drains.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	Liquid
Colour:	green
Odour:	characteristic
Odour threshold:	not determined

Test method

Melting point/freezing point:	not determined
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Boiling point or initial boiling point and boiling range:	>200 °C
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
Water solubility:	practically insoluble
Solubility in other solvents not determined	
Partition coefficient n-octanol/water:	not determined
Vapour pressure:	not determined
Density (at 23 °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 (at 25 °C): 10.000-16.000 mPa·s Brookfield 5 / 20 rpm

SECTION 10: Stability and reactivity

10.1. Reactivity

No known hazardous reactions.

10.2. Chemical stability

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

10.3. Possibility of hazardous reactions

Thermal decomposition can lead to the escape of irritating gases and vapours.
Vapours can form explosive mixtures with air.

10.4. Conditions to avoid

No information available.

10.5. Incompatible materials

No information available.

10.6. Hazardous decomposition products

No known hazardous decomposition products.

Further information

No data available

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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) > 5000 mg/kg; ATE (dermal) > 5000 mg/kg; ATE (inhalation vapour) > 50 mg/l; ATE (inhalation dust/mist) 1,003 mg/l

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
27813-02-1	Methacrylic acid, monoester with propane-1,2-diol				
	oral	LD50 > 5000 mg/kg	Rat	Study report (1982)	OECD Guideline 401
	dermal	LD50 > 5000 mg/kg	Rabbit	Study report (1982)	The test substance, as received, was hel
20882-04-6	[2-(Methacryloyloxy)-ethyl]-hydrogen succinate				
	oral	LD50 > 2000 mg/kg	Rat	Study report (2016)	OECD Guideline 423
80-15-9	cumene hydroperoxide				
	oral	LD50 382 mg/kg	Rat	IUCLID	
	dermal	ATE 1100 mg/kg			
	inhalation vapour	ATE 3 mg/l			
	inhalation dust/mist	ATE 0,5 mg/l			
868-77-9	2-hydroxyethyl methacrylate				
	oral	LD50 5564 mg/kg	Rat	Study report (1977)	other: Appraisal of the safety of chem b
	dermal	LD50 > 5000 mg/kg	Rabbit	Study report (1982)	The test substance, as received, was hel
102-82-9	tributylamine				
	oral	LD50 420 mg/kg	Rat	Publication (1974)	Method: acute oral toxicity test Screeni
	dermal	LD50 195 mg/kg	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 0,005 mg/l			
114-83-0	2-phenylacetohydrazide				
	oral	LD50 270 mg/kg	Mouse	Pre-supplier/manufa cturer	
28961-43-5	Propylidynetrimethanol, ethoxylated, esters with acrylic acid				
	oral	LD50 > 2000 mg/kg	Rat	Study report (1998)	OECD Guideline 401
	dermal	LD50 > 13200 mg/kg	Rabbit	Study report (1984)	An acute dermal toxicity study was perfo

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CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
1187441-1 0-6	2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, reaction products with phosphorus oxide				
	oral	LD50 > 2000 mg/kg	Rat	Study report (2004)	OECD Guideline 423
	dermal	LD50 > 2000 mg/kg	Rat	REACH Registration Dossier	OECD Guideline 423
128-37-0	2,6-di-tert-butyl-p-cresol				
	oral	LD50 > 6000 mg/kg	Rat	Study report (1989)	OECD Guideline 401
	dermal	Data lacking			
79-10-7	acrylic acid				
	oral	ATE 500 mg/kg			
	dermal	ATE 1100 mg/kg			
	inhalation vapour	ATE 11 mg/l			
	inhalation dust/mist	ATE 1,5 mg/l			

Irritation and corrosivity

Serious eye damage/eye irritation: Causes serious eye damage.

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

Sensitising effects

May cause an allergic skin reaction. (Reaction mass of (2,4,6-trioxo-1,3,5-triazine-1,3,5(2H,4H,6H)-triy)tri-2,1-ethanediy triacrylate and 2-Propenoic acid, 1,1'-[[dihydro-5-(2-hydroxyethyl)-2,4,6-trioxo-1,3,5-triazine-1,3(2H,4H)-diyl]di-2,1-ethanediy] ester; Methacrylic acid, monoester with propane-1,2-diol; [2-(Methacryloyloxy)-ethyl]-hydrogen succinate; 2-hydroxyethyl methacrylate; Propylidynetrimethanol, ethoxylated, esters with acrylic acid; 2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, reaction products with phosphorus oxide)

Carcinogenic/mutagenic/toxic effects for reproduction

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

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

Reproductive toxicity: 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.

Information on likely routes of exposure

No data available

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

Other information

No data available

Further information

No data available

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SECTION 12: Ecological information

12.1. Toxicity

May cause long lasting harmful effects to aquatic life.

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h][d]	Species	Source	Method
27813-02-1	Methacrylic acid, monoester with propane-1,2-diol					
	Acute fish toxicity	LC50 > 100 mg/l	96 h	Oryzias latipes	Study report (1997)	OECD Guideline 203
	Acute algae toxicity	ErC50 345 mg/l	72 h	Raphidocelis subcapitata	Study report (1997)	OECD Guideline 201
	Acute crustacea toxicity	EC50 > 143 mg/l	48 h	Daphnia magna	REACH Registration Dossier	OECD Guideline 202
	Crustacea toxicity	NOEC 45.2 mg/l	21 d	Daphnia magna	REACH Registration Dossier	OECD Guideline 211
20882-04-6	[2-(Methacryloyloxy)-ethyl]-hydrogen succininate					
	Acute algae toxicity	ErC50 >= 197 mg/l	72 h	Pseudokirchneriella subcapitata	Study report (2016)	OECD Guideline 201
	Acute crustacea toxicity	EC50 > 515.4 mg/l	48 h	Daphnia magna	Study report (2016)	OECD Guideline 202
	Algae toxicity	NOEC >= 197 mg/l	3 d	Pseudokirchneriella subcapitata	Pre-supplier/manufacturer	OECD 201
	Crustacea toxicity	NOEC > 515,4 mg/l	2 d	Daphnia magna	Pre-supplier/manufacturer	OECD 202
868-77-9	2-hydroxyethyl methacrylate					
	Acute fish toxicity	LC50 > 100 mg/l	96 h	Oryzias latipes	REACH Registration Dossier	OECD Guideline 203
	Acute algae toxicity	ErC50 345 mg/l	72 h	Raphidocelis subcapitata	REACH Registration Dossier	OECD Guideline 201
	Acute crustacea toxicity	EC50 380 mg/l	48 h	Daphnia magna	REACH Registration Dossier	OECD Guideline 202
	Crustacea toxicity	NOEC 24.1 mg/l	21 d	Daphnia magna	REACH Registration Dossier	OECD Guideline 211
102-82-9	tributylamine					
	Acute fish toxicity	LC50 16.3 mg/l	96 h	Oryzias latipes	Study report (2000)	other: Testing Methods for Industrial Wa
	Acute algae toxicity	ErC50 10.1 mg/l	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/manufacturer	OECD 202

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CAS No	Chemical name					
	Aquatic toxicity	Dose	[h][d]	Species	Source	Method
28961-43-5	Propylidynetrimethanol, ethoxylated, esters with acrylic acid					
	Acute fish toxicity	LC50 1.95 mg/l	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
	Acute crustacea toxicity	EC50 70.7 mg/l	48 h	Daphnia magna	REACH Registration Dossier	OECD Guideline 202
1187441-10-6	2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, reaction products with phosphorus oxide					
	Acute fish toxicity	LC50 > 100 mg/l	96 h	Cyprinus carpio	REACH Registration Dossier	EU Method C.1
	Acute algae toxicity	ErC50 90 mg/l	72 h	Selenastrum capricornutum, strain: NIVA CHL 1.	REACH Registration Dossier	OECD Guideline 201
	Acute crustacea toxicity	EC50 > 100 mg/l	48 h	Daphnia magna	REACH Registration Dossier	OECD Guideline 202
128-37-0	2,6-di-tert-butyl-p-cresol					
	Acute fish toxicity	LC50 0.199 mg/l	96 h	Oryzias latipes	REACH Registration Dossier	OECD Guideline 203
	Acute algae toxicity	ErC50 0.758 mg/l	96 h	Raphidocelis subcapitata	REACH Registration Dossier	OECD Guideline 201
	Acute crustacea toxicity	EC50 0.48 mg/l	48 h	Daphnia magna	REACH Registration Dossier	OECD Guideline 202
	Fish toxicity	NOEC 0.053 mg/l	30 d	Oryzias latipes	REACH Registration Dossier	OECD Guideline 210
	Crustacea toxicity	NOEC 0.069 mg/l	21 d	Daphnia magna	REACH Registration Dossier	OECD Guideline 211
	Acute bacteria toxicity	EC50 > 10000 mg/l ()	3 h	Activated sludge	Study report (2000)	OECD Guideline 209

12.2. Persistence and degradability

No data available

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

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12.3. Bioaccumulative potential

No data available

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
27813-02-1	Methacrylic acid, monoester with propane-1,2-diol	0.97
20882-04-6	[2-(Methacryloyloxy)-ethyl]-hydrogen succinate	0.782
868-77-9	2-hydroxyethyl methacrylate	0.42
102-82-9	tributylamine	3.338
28961-43-5	Propylidynetrimethanol, ethoxylated, esters with acrylic acid	2.89
1187441-1 0-6	2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, reaction products with phosphorus oxide	>= 0.3
128-37-0	2,6-di-tert-butyl-p-cresol	5.03
79-10-7	acrylic acid	0,35

BCF

CAS No	Chemical name	BCF	Species	Source
102-82-9	tributylamine	7.3	Cyprinus carpio	REACH Registration D
128-37-0	2,6-di-tert-butyl-p-cresol	465	fish	REACH Registration D

12.4. Mobility in soil

No data 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.

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

No data available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

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

Completely emptied packages can be recycled. Dispose of waste according to applicable legislation.

SECTION 14: Transport information

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Land transport (ADR/RID)

- 14.1. UN number or ID number:** No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name: No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es): No dangerous good in sense of this transport regulation.
14.4. Packing group: No dangerous good in sense of this transport regulation.

Inland waterways transport (ADN)

- 14.1. UN number or ID number:** No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name: No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es): No dangerous good in sense of this transport regulation.
14.4. Packing group: No dangerous good in sense of this transport regulation.

Marine transport (IMDG)

- 14.1. UN number or ID number:** No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name: No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es): No dangerous good in sense of this transport regulation.
14.4. Packing group: No dangerous good in sense of this transport regulation.

Air transport (ICAO-TI/IATA-DGR)

- 14.1. UN number or ID number:** No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name: No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es): No dangerous good in sense of this transport regulation.
14.4. Packing group: No dangerous good in sense of this transport regulation.

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

14.6. Special precautions for user

No information available.

14.7. Maritime transport in bulk according to IMO instruments

not applicable

Other applicable information

No information available.

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, Entry 78

Directive 2010/75/EU on industrial emissions: 18.269 % (200.964 g/l)

Information according to Directive 2012/18/EU (SEVESO III): Not subject to 2012/18/EU (SEVESO III)

National regulatory information

Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).

Water hazard class (D): 2 - obviously hazardous to water

(EU) EINECS/ELINCS/NLP: yes

(RC) TCSI: unknown

(NZ) NZIoC: unknown

(USA) TSCA: yes

(CDN) DSL: no

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(ROK) KECI/ECL:	no
(RP) PICCS:	unknown
(JP) MITI:	no
(CHN) IECSC:	yes
(AUS) AIIC:	no
(CDN) NDSL:	no

15.2. Chemical safety assessment

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

SECTION 16: Other information

Changes

This data sheet contains changes from the previous version in section(s): 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15.

Abbreviations and acronyms

Org. Perox. E: Organic peroxides, type E
Flam. Liq. 3: Flammable liquids, hazard category 3
Acute Tox. 1: Acute toxicity, hazard category 1
Acute Tox. 2: Acute toxicity, hazard category 2
Acute Tox. 3: Acute toxicity, hazard category 3
Acute Tox. 4: Acute toxicity, hazard category 4
Skin Corr. 1A: Skin corrosion, sub-category 1A
Skin Corr. 1B: Skin corrosion, sub-category 1B
Skin Irrit. 2: Skin irritation, hazard category 2
Eye Dam. 1: Serious eye damage, hazard category 1
Eye Irrit. 2: Eye irritation, hazard category 2
Skin Sens. 1: Skin sensitisation, hazard category 1
Skin Sens. 1A: Skin sensitisation, hazard category 1A
Skin Sens. 1B: Skin sensitisation, hazard category 1B
STOT SE 3: Specific target organ toxicity - single exposure, hazard category 3
STOT RE 2: Specific target organ toxicity - repeated exposure, hazard category 2
Aquatic Acute 1: Hazardous to the aquatic environment, hazard category: Acute 1
Aquatic Chronic 1: Hazardous to the aquatic environment, long-term hazard category: Chronic 1
Aquatic Chronic 2: Hazardous to the aquatic environment, long-term hazard category: Chronic 2
Aquatic Chronic 3: Hazardous to the aquatic environment, long-term hazard category: Chronic 3
Aquatic Chronic 4: Hazardous to the aquatic environment, long-term hazard category: Chronic 4
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)

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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).

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
Aquatic Chronic 4; H413	Calculation method

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.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
H413	May cause long lasting harmful effects to aquatic life.

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.

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