

Safety Data Sheet

according to Regulation (EC) No 1907/2006

1315 MA structural adhesive - 1313 resin

Revision: 27.02.2026

Product code: 1313

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

1.1. Product identifier

1315 MA structural adhesive - 1313 resin

Further trade names

Product 1315: 1313 resin + 1314 Hardener

Product group:

UFI: SRM3-R01G-2006-CE1P

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

Repr. 2; H361d
Skin Irrit. 2; H315
Eye Dam. 1; H318
Skin Sens. 1; H317
STOT SE 3; H335
Aquatic Chronic 2; H411

Full text of hazard statements: see SECTION 16.

2.2. Label elements

Regulation (EC) No 1272/2008

Hazard components for labelling

2-phenoxyethyl methacrylate

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2-hydroxyethyl methacrylate
 Methacrylic acid, monoester with propane-1,2-diol
 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
 cumene hydroperoxide
 4-methoxyphenol

Signal word:

Danger

Pictograms:

Hazard statements

- H315 Causes skin irritation.
 H317 May cause an allergic skin reaction.
 H318 Causes serious eye damage.
 H335 May cause respiratory irritation.
 H361d Suspected of damaging the unborn child.
 H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

- P273 Avoid release to the environment.
 P280 Wear protective gloves and eye protection/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.
 P391 Collect spillage.

Labelling of packages where the contents do not exceed 125 ml
Signal word:

Danger

Pictograms:

Hazard statements

H317-H318-H361d

Precautionary statements

P280-P305+P351+P338-P310

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
	Classification (Regulation (EC) No 1272/2008)	REACH No

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CAS No	Chemical name	Quantity
	EC No	Index No
	REACH No	
	Classification (Regulation (EC) No 1272/2008)	
10595-06-9	2-phenoxyethyl methacrylate	15 - < 30 %
	234-201-1	01-2120752383-55
	Repr. 2, Skin Sens. 1, Aquatic Chronic 2; H361d H317 H411	
868-77-9	2-hydroxyethyl methacrylate	15 - < 30 %
	212-782-2	607-124-00-X
	01-2119490169-29	
	Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1; H315 H319 H317	
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	
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	
80-15-9	cumene hydroperoxide	3 - < 5 %
	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	
107-21-1	ethanediol	1 - < 5 %
	203-473-3	603-027-00-1
	Acute Tox. 4, STOT RE 2; H302 H373	
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	
150-76-5	4-methoxyphenol	0.1 - < 1 %
	205-769-8	604-044-00-7
	01-2119541813-40	
	Acute Tox. 4, Eye Irrit. 2, Skin Sens. 1, Aquatic Chronic 3; H302 H319 H317 H412	
79-41-4	methacrylic acid	0.1 - < 1 %
	201-204-4	607-088-00-5
	01-2119463884-26	
	Acute Tox. 3, Acute Tox. 4, Acute Tox. 4, Skin Corr. 1A, Eye Dam. 1, STOT SE 3; H311 H332 H302 H314 H318 H335	

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	
868-77-9	212-782-2	2-hydroxyethyl methacrylate	15 - < 30 %
		dermal: LD50 = > 5000 mg/kg; oral: LD50 = 5564 mg/kg	
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	
80-15-9	201-254-7	cumene hydroperoxide	3 - < 5 %
		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	
107-21-1	203-473-3	ethanediol	1 - < 5 %
		dermal: LD50 = 10600 mg/kg; oral: ATE = 500 mg/kg	

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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	
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	
150-76-5	205-769-8	4-methoxyphenol	0.1 - < 1 %
		dermal: LD50 = > 2000 mg/kg; oral: ATE = 500 mg/kg	
79-41-4	201-204-4	methacrylic acid	0.1 - < 1 %
		inhalation: ATE = 11 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists); dermal: LD50 = 500 mg/kg; oral: LD50 = 1320 mg/kg Eye Dam. 1; H318: >= 3 - 100 Eye Irrit. 2; H319: >= - < 3 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 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.

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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
107-21-1	Ethylene glycol	20	52		TWA (8 h)	
		40	104		STEL (15 min)	

DNEL/DMEL values

CAS No	Name of agent	Exposure route	Effect	Value
10595-06-9	2-phenoxyethyl methacrylate			
Worker DNEL, long-term		inhalation	systemic	12 mg/m ³
Worker DNEL, long-term		inhalation	local	84 mg/m ³
Worker DNEL, long-term		dermal	systemic	3.5 mg/kg bw/day
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

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DNEL/DMEL values

CAS No	Name of agent	Exposure route	Effect	Value
	DNEL type			
	Consumer DNEL, long-term	oral	systemic	0.83 mg/kg bw/day
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
107-21-1	ethanediol			
	Worker DNEL, long-term	inhalation	local	35 mg/m ³
	Worker DNEL, long-term	dermal	systemic	106 mg/kg bw/day
	Consumer DNEL, long-term	inhalation	local	7 mg/m ³
	Consumer DNEL, long-term	dermal	systemic	53 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
150-76-5	4-methoxyphenol			
	Worker DNEL, long-term	inhalation	systemic	3 mg/m ³
79-41-4	methacrylic acid			
	Worker DNEL, long-term	inhalation	systemic	39.3 mg/m ³
	Worker DNEL, long-term	inhalation	local	44 mg/m ³
	Worker DNEL, long-term	dermal	systemic	4.25 mg/kg bw/day
	Worker DNEL, long-term	dermal	local	0.38 mg/cm ²
	Consumer DNEL, long-term	inhalation	systemic	11.7 mg/m ³
	Consumer DNEL, long-term	inhalation	local	8.8 mg/m ³
	Consumer DNEL, long-term	dermal	systemic	5.35 mg/kg bw/day
	Consumer DNEL, long-term	dermal	local	0.23 mg/cm ²
	Consumer DNEL, long-term	oral	systemic	5.35 mg/kg bw/day

PNEC values

CAS No	Name of agent	Value
	Environmental compartment	
10595-06-9	2-phenoxyethyl methacrylate	
	Freshwater	0.0142 mg/l
	Freshwater (intermittent releases)	0.012 mg/l
	Marine water	0.00142 mg/l
	Freshwater sediment	0.665 mg/kg
	Marine sediment	0.067 mg/kg
	Micro-organisms in sewage treatment plants (STP)	1.77 mg/l
	Soil	0.125 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

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PNEC values

CAS No	Name of agent	Value
Environmental compartment		
Micro-organisms in sewage treatment plants (STP)		10 mg/l
Soil		0.476 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
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
107-21-1	ethanediol	
Freshwater		10 mg/l
Freshwater (intermittent releases)		10 mg/l
Marine water		1 mg/l
Freshwater sediment		37 mg/kg
Marine sediment		3,7 mg/kg
Micro-organisms in sewage treatment plants (STP)		199,5 mg/l
Soil		1,53 mg/kg
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
150-76-5	4-methoxyphenol	
Freshwater		0.014 mg/l
Marine water		0.001 mg/l
Freshwater sediment		0.125 mg/kg
Marine sediment		0.013 mg/kg
Micro-organisms in sewage treatment plants (STP)		10 mg/l
Soil		0.017 mg/kg
79-41-4	methacrylic acid	
Freshwater		0.82 mg/l
Freshwater (intermittent releases)		0.45 mg/l
Marine water		0.082 mg/l
Freshwater sediment		3.09 mg/kg
Marine sediment		0.309 mg/kg
Micro-organisms in sewage treatment plants (STP)		100 mg/l
Soil		0.137 mg/kg

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8.2. Exposure controls



Appropriate engineering controls

Provide adequate ventilation as well as local exhaustion 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:	cream
Odour:	characteristic
Odour threshold:	not determined
Melting point/freezing point:	not determined
Boiling point or initial boiling point and boiling range:	ca. 149 °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:	not determined
Solubility in other solvents	not determined
Partition coefficient n-octanol/water:	not determined
Vapour pressure:	not determined
Density (at 20 °C):	1,06 g/cm ³
Relative density:	not determined
Relative vapour density:	not determined
Particle characteristics:	Polymer preparations and compounds Particle size < 5 mm

9.2. Other information

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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 20 °C):

5.500 mPa·s

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

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

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

ATEmix calculated

ATE (oral) > 5000 mg/kg; ATE (dermal) > 5000 mg/kg; ATE (inhalation vapour) > 50 mg/l; ATE (inhalation dust/mist) > 12,5 mg/l

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
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
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

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CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
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			
107-21-1	ethanediol				
	oral	ATE 500 mg/kg			
	dermal	LD50 10600 mg/kg	Rabbit	GESTIS	
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			
150-76-5	4-methoxyphenol				
	oral	ATE 500 mg/kg			
	dermal	LD50 > 2000 mg/kg	Rat	Study report (2008)	EU Method B.3
79-41-4	methacrylic acid				
	oral	LD50 1320 mg/kg	Rat	Study report (1977)	OECD Guideline 401
	dermal	LD50 500 mg/kg	Rabbit	Pre-supplier/manufacturer	
	inhalation vapour	ATE 11 mg/l			OECD 403
	inhalation dust/mist	ATE 1,5 mg/l			

Irritation and corrosivity

Skin corrosion/irritation: Causes skin irritation.

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

Sensitising effects

May cause an allergic skin reaction. (2-phenoxyethyl methacrylate; 2-hydroxyethyl methacrylate; Methacrylic acid, monoester with propane-1,2-diol; 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; 4-methoxyphenol)

Carcinogenic/mutagenic/toxic effects for reproduction

Suspected of damaging the unborn child. (2-phenoxyethyl methacrylate)

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

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

STOT-single exposure

May cause respiratory irritation. (cumene hydroperoxide)

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

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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

SECTION 12: Ecological information

12.1. Toxicity

Toxic to aquatic life with long lasting effects.

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h][d]	Species	Source	Method
10595-06-9	2-phenoxyethyl methacrylate					
	Acute algae toxicity	ErC50 4.4 mg/l	72 h	Desmodesmus subspicatus	REACH Registration Dossier	ISO 8692
	Acute bacteria toxicity	EC50 177 mg/l ()	3 h	Activated sludge	REACH Registration Dossier	ISO 8192
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
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

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CAS No	Chemical name					
	Aquatic toxicity	Dose	[h][d]	Species	Source	Method
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
150-76-5	4-methoxyphenol					
	Acute fish toxicity	LC50 28.5 mg/l	96 h	Oncorhynchus mykiss	Environ Toxicol Chem, 3(2), 243-254. (19	EU Method C.1
	Acute algae toxicity	ErC50 54.7 mg/l	72 h	Raphidocelis subcapitata	Study report (2009)	EU Method C.3
	Acute crustacea toxicity	EC50 3 mg/l	48 h	Daphnia magna	Study report (2009)	OECD Guideline 202
	Crustacea toxicity	NOEC 0.68 mg/l	21 d	Daphnia magna	Study report (2013)	OECD Guideline 211
	Acute bacteria toxicity	EC50 4.6 mg/l ()	0,5 h	Photobacterium phosphoreum	Chemosphere, 12(11/12), 1421-1442. (1983	other: microtox test
79-41-4	methacrylic acid					
	Acute fish toxicity	LC50 833 mg/l	96 h	Scophthalmus maximus	Publication (2001)	other: OSPAR Protocols on Methods for th
	Acute algae toxicity	ErC50 54 mg/l	72 h	Raphidocelis subcapitata	Study report, unpublished, cover page mi	OECD Guideline 201
	Acute crustacea toxicity	EC50 > 130 mg/l	48 h	Daphnia magna	REACH Registration Dossier	EPA OTS 797.1300
	Fish toxicity	NOEC 10 mg/l	35 d	Danio rerio	REACH Registration Dossier	OECD Guideline 210
	Crustacea toxicity	NOEC 53 mg/l	21 d	Daphnia magna	REACH Registration Dossier	OECD Guideline 211
	Acute bacteria toxicity	EC50 13500 mg/l ()	3 h	Activated sludge	Publication (2008)	ISO 8192

12.2. Persistence and degradability

No data available

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12.3. Bioaccumulative potential

No data available

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
10595-06-9	2-phenoxyethyl methacrylate	3.137
868-77-9	2-hydroxyethyl methacrylate	0.42
27813-02-1	Methacrylic acid, monoester with propane-1,2-diol	0.97
107-21-1	ethanediol	-1,36
128-37-0	2,6-di-tert-butyl-p-cresol	5.03
150-76-5	4-methoxyphenol	1.62
79-41-4	methacrylic acid	0.93

BCF

CAS No	Chemical name	BCF	Species	Source
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

080409 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 containing organic solvents or other hazardous substances; hazardous waste

List of Wastes Code - used product

080409 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 containing organic solvents or other hazardous substances; hazardous waste

List of Wastes Code - contaminated packaging

080409 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 containing organic solvents or other hazardous substances; hazardous waste

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:	UN 3082
14.2. UN proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (PHENOXYETHYL METHACRYLATE)
14.3. Transport hazard class(es):	9
14.4. Packing group:	III
Hazard label:	9



Classification code:	M6
Special Provisions:	274 335 375 601 650
Limited quantity:	5 L
Excepted quantity:	E1
Transport category:	3
Hazard No:	90
Tunnel restriction code:	-

Other applicable information (land transport)

ADR: 375: These substances when carried in single or combination packagings containing a net quantity per single or inner packaging of 5 l or less for liquids or having a net mass per single or inner packaging of 5 kg or less for solids, are not subject to any other provisions of ADR provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.

Inland waterways transport (ADN)

14.1. UN number or ID number:	UN 3082
14.2. UN proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (PHENOXYETHYL METHACRYLATE)
14.3. Transport hazard class(es):	9
14.4. Packing group:	III
Hazard label:	9



Classification code:	M6
Special Provisions:	274 335 375 601 650
Limited quantity:	5 L
Excepted quantity:	E1

Marine transport (IMDG)

14.1. UN number or ID number:	UN 3082
14.2. UN proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (PHENOXYETHYL METHACRYLATE)
14.3. Transport hazard class(es):	9
14.4. Packing group:	III
Hazard label:	9



Special Provisions:	274 335 375 969
Limited quantity:	5 L
Excepted quantity:	E1

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EmS: F-A, S-F

Other applicable information (marine transport)

IMDG: 375: These substances when carried in single or combination packagings containing a net quantity per single or inner packaging of 5 l or less for liquids or having a net mass per single or inner packaging of 5 kg or less for solids, are not subject to any other provisions of ADR provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number or ID number: UN 3082
14.2. UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (PHENOXYETHYL METHACRYLATE)
14.3. Transport hazard class(es): 9
14.4. Packing group: III
 Hazard label: 9



Special Provisions: A97 A158 A197 A215
 Limited quantity Passenger: 30 kg G
 Passenger LQ: Y964
 Excepted quantity: E1
 IATA-packing instructions - Passenger: 964
 IATA-max. quantity - Passenger: 450 L
 IATA-packing instructions - Cargo: 964
 IATA-max. quantity - Cargo: 450 L

Other applicable information (air transport)

IATA: A197 (375): These substances when transported in single or combination packagings containing a net quantity per single or inner packaging of 5 L or less for liquids or having a net mass of 5 kg or less for solids, are not subject to any other provisions of these Regulations provided the packagings meet the general provisions of 5.0.2.4.1, 5.0.2.6.1.1 and 5.0.2.8

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: Yes



Danger releasing substance: PHENOXYETHYL METHACRYLATE

14.6. Special precautions for user

No information available.

14.7. Maritime transport in bulk according to IMO instruments

No information available.

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: 29.639 % (314.169 g/l)

Information according to Directive E2 Hazardous to the Aquatic Environment

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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). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

Water hazard class (D):

2 - obviously hazardous to water

(EU) EINECS/ELINCS/NLP:

yes

(RC) TCSI:

yes

(NZ) NZIoC:

unknown

(USA) TSCA:

yes

(CDN) DSL:

no

(ROK) KECI/ECL:

yes

(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): 8,14.

Abbreviations and acronyms

Org. Perox. E: Organic peroxides, type E

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

Repr. 2: Reproductive toxicity, hazard category 2

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

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%

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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

Classification for mixtures and used evaluation method according to Regulation (EC) No 1272/2008 [CLP]

Classification	Classification procedure
Repr. 2; H361d	Calculation method
Skin Irrit. 2; H315	Calculation method
Eye Dam. 1; H318	Calculation method
Skin Sens. 1; H317	Calculation method
STOT SE 3; H335	Calculation method
Aquatic Chronic 2; H411	Calculation method

Relevant H and EUH statements (number and full text)

H242	Heating may cause a fire.
H302	Harmful if swallowed.
H311	Toxic 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.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H361d	Suspected of damaging the unborn child.
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.

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Further Information

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.)