

Safety Data Sheet

according to Regulation (EC) No 1907/2006

1810 MA structural adhesive - 1812 hardener

Revision: 27.02.2026

Product code: 1812

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SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

1810 MA structural adhesive - 1812 hardener

Further trade names

Product 1810: 1811 resin + 1812 Hardener

Product group:

UFI: 7K05-90FJ-W004-FRTV

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**Eye Dam. 1; H318
Skin Sens. 1; H317
Aquatic Chronic 3; H412

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 succinate
(octahydro-4,7-methano-1H-indenediy)bis(methylene) bismethacrylate
2-hydroxyethyl methacrylate

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2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, reaction products with phosphorus oxide
Phenothiazine

Signal word:

Danger

Pictograms:



Hazard statements

- H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H412 Harmful to aquatic life with long lasting effects.

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.
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.

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)	
27813-02-1	Methacrylic acid, monoester with propane-1,2-diol	30 - < 50 %
	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	
43048-08-4	(octahydro-4,7-methano-1H-indenediyl)bis(methylene) bismethacrylate	5 - < 15 %
	256-062-6	01-2120164868-39
	Skin Sens. 1B, Aquatic Chronic 2; H317 H411	
868-77-9	2-hydroxyethyl methacrylate	1 - < 5 %
	212-782-2	607-124-00-X
	01-2119490169-29	
	Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1; H315 H319 H317	
1187441-1 0-6	2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, reaction products with phosphorus oxide	1 - < 5 %
	810-703-1	01-2120140608-57
	Eye Dam. 1, Skin Sens. 1; H318 H317	

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CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (Regulation (EC) No 1272/2008)			
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			
92-84-2	Phenothiazine			0.1 - < 1 %
	202-196-5		01-2119488529-19	
	Acute Tox. 4, Skin Sens. 1, STOT RE 2, Aquatic Chronic 1; H302 H317 H373 H410			

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	30 - < 50 %
	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		
868-77-9	212-782-2	2-hydroxyethyl methacrylate	1 - < 5 %
	dermal: LD50 = > 5000 mg/kg; oral: LD50 = 5564 mg/kg		
1187441-1 0-6	810-703-1	2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, reaction products with phosphorus oxide	1 - < 5 %
	dermal: LD50 = > 2000 mg/kg; oral: LD50 = > 2000 mg/kg		
150-76-5	205-769-8	4-methoxyphenol	0.1 - < 1 %
	dermal: LD50 = > 2000 mg/kg; oral: ATE = 500 mg/kg		
92-84-2	202-196-5	Phenothiazine	0.1 - < 1 %
	dermal: LD50 = > 2000 mg/kg; oral: LD50 = 1370 mg/kg		

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.

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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.

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

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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
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
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
150-76-5	4-methoxyphenol			
Worker DNEL, long-term		inhalation	systemic	3 mg/m ³
92-84-2	Phenothiazine			
Worker DNEL, long-term		inhalation	systemic	0.53 mg/m ³
Consumer DNEL, long-term		inhalation	systemic	0.13 mg/m ³
Worker DNEL, long-term		dermal	systemic	0.15 mg/kg bw/day
Worker DNEL, acute		inhalation	systemic	1.59 mg/m ³
Consumer DNEL, acute		inhalation	systemic	0.39 mg/m ³
Consumer DNEL, long-term		dermal	systemic	0.08 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	0.08 mg/kg bw/day
Consumer DNEL, acute		oral	systemic	0.24 mg/kg bw/day

PNEC values

CAS No	Name of agent	Value
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
43048-08-4	(octahydro-4,7-methano-1H-indenediyl)bis(methylene) bismethacrylate	
Freshwater		0.000144 mg/l
Freshwater (intermittent releases)		0.00144 mg/l
Marine water		0.000014 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		0.022 mg/kg

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PNEC values

CAS No	Name of agent	Value
Environmental compartment		
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
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
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
92-84-2	Phenothiazine	
Freshwater		0 mg/l
Freshwater (intermittent releases)		0.002 mg/l
Marine water		0 mg/l
Freshwater sediment		0.019 mg/kg
Marine sediment		0.002 mg/kg
Micro-organisms in sewage treatment plants (STP)		0.054 mg/l
Soil		0.023 mg/kg

Additional advice on limit values

To date, no national critical limit values exist.

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

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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	
Melting point/freezing point:	not determined	Test method
Boiling point or initial boiling point and boiling range:	not determined	
Flammability:	not applicable	
Lower explosion limits:	not determined	
Upper explosion limits:	not determined	
Flash point:	> 94 °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 20 °C):	1,11 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
not determined

Oxidizing properties
not determined

Other safety characteristics

Evaporation rate:	not determined	
Solid content:	not determined	
Viscosity / dynamic (at 25 °C):	30.000 - 55.000 mPa·s	DIN 53019: K40 S1

SECTION 10: Stability and reactivity

10.1. Reactivity

No known hazardous reactions.

10.2. Chemical stability

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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

Toxicokinetics, metabolism and distribution

No data available

Acute toxicity

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

ATEmix calculated

ATE (oral) > 2000 mg/kg; ATE (dermal) > 2000 mg/kg

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
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
1187441-10-6	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
150-76-5	4-methoxyphenol				
	oral	ATE 500 mg/kg			
	dermal	LD50 > 2000 mg/kg	Rat	Study report (2008)	EU Method B.3

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CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
92-84-2	Phenothiazine				
	oral	LD50 1370 mg/kg	Rat	Study report (1977)	other: As outlined in "Appraisal of the
	dermal	LD50 > 2000 mg/kg	Rat	Study report (2010)	OECD Guideline 402

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. (Methacrylic acid, monoester with propane-1,2-diol; [2-(Methacryloyloxy)-ethyl]-hydrogen succinate; (octahydro-4,7-methano-1H-indenediyl)bis(methylene) bismethacrylate; 2-hydroxyethyl methacrylate; 2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, reaction products with phosphorus oxide; 4-methoxyphenol; Phenothiazine)

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

SECTION 12: Ecological information

12.1. Toxicity

Harmful to aquatic life with long lasting effects.

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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 succinate					
	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
43048-08-4	(octahydro-4,7-methano-1H-indenediyl)bis(methylene) bismethacrylate					
	Acute fish toxicity	LC50 1.65 mg/l	96 h	Danio rerio	Study report (2015)	OECD Guideline 203
	Acute algae toxicity	ErC50 1.6 mg/l	72 h	Raphidocelis subcapitata	Study report (2014)	OECD Guideline 201
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
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

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CAS No	Chemical name					
	Aquatic toxicity	Dose	[h][d]	Species	Source	Method
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
92-84-2	Phenothiazine					
	Acute fish toxicity	LC50 70.7 mg/l	96 h	Oncorhynchus mykiss	Study report (2010)	OECD Guideline 203
	Acute algae toxicity	ErC50 > 100 mg/l	72 h	Desmodesmus subspicatus	Study report (2010)	OECD Guideline 201

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).			
43048-08-4	(octahydro-4,7-methano-1H-indenediyl)bis(methylene) bismethacrylate			
	OECD 301F	27%	56	Pre-supplier/manufacturer
	Not readily biodegradable (according to OECD criteria)			

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
43048-08-4	(octahydro-4,7-methano-1H-indenediyl)bis(methylene) bismethacrylate	5.8
868-77-9	2-hydroxyethyl methacrylate	0.42
1187441-10-6	2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, reaction products with phosphorus oxide	>= 0.3
150-76-5	4-methoxyphenol	1.62
92-84-2	Phenothiazine	ca. 3.78

BCF

CAS No	Chemical name	BCF	Species	Source
43048-08-4	(octahydro-4,7-methano-1H-indenediyl)bis(methylene) bismethacrylate	1493	not specified	QSAR (2021)
92-84-2	Phenothiazine	>= 310	Cyprinus carpio	Study report (1983)

12.4. Mobility in soil

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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

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.

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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

Directive 2010/75/EU on industrial emissions: 43.246 % (480.03 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: no

(NZ) NZIoC: no

(USA) TSCA: yes

(CDN) DSL: no

(ROK) KECI/ECL: no

(RP) PICCS: no

(JP) MITI: no

(CHN) IECSC: no

(AUS) AIIC: yes

(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): 15.

Abbreviations and acronyms

Acute Tox. 4: Acute toxicity, hazard category 4

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

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STOT RE 2: Specific target organ toxicity - repeated exposure, hazard category 2
 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%
 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
Eye Dam. 1; H318	Calculation method
Skin Sens. 1; H317	Calculation method
Aquatic Chronic 3; H412	Calculation method

Relevant H and EUH statements (number and full text)

H302	Harmful if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H373	May cause damage to organs through prolonged or repeated exposure.
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.)