

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

**1320 MA structural adhesive - 1318 resin**

Revision: 27.02.2026

Product code: 1318

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

#### 1.1. Product identifier

1320 MA structural adhesive - 1318 resin

##### Further trade names

Product 1320: 1318 resin + 1319 Hardener

Product group:

UFI: 15N3-80GF-K00P-P3Y0

#### 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-hydroxyethyl methacrylate

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2-phenoxyethyl methacrylate  
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
	REACH No	Classification (Regulation (EC) No 1272/2008)
868-77-9	2-hydroxyethyl methacrylate	30 - < 50 %
	212-782-2	607-124-00-X
	01-2119490169-29	
	Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1; H315 H319 H317	

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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			
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			
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			
26741-53-7	3,9-bis(2,4-di-tert-butylphenoxy)-2,4,8,10-tetraoxa-3,9-diphosphaspiro[5.5]undecane			0.1 - < 1 %
	247-952-5		01-2119977073-34	
	Aquatic Chronic 1; H410			
123-31-9	hydroquinone			< 0.1 %
	204-617-8	604-005-00-4	01-2119524016-51	
	Carc. 2, Muta. 2, Acute Tox. 4, Eye Dam. 1, Skin Sens. 1, Aquatic Acute 1, Aquatic Chronic 1; H351 H341 H302 H318 H317 H400 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	
868-77-9	212-782-2	2-hydroxyethyl methacrylate	30 - < 50 %
		dermal: LD50 = > 5000 mg/kg; oral: LD50 = 5564 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	
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	
26741-53-7	247-952-5	3,9-bis(2,4-di-tert-butylphenoxy)-2,4,8,10-tetraoxa-3,9-diphosphaspiro[5.5]undecane	0.1 - < 1 %
		dermal: LD50 = > 2000 mg/kg; oral: LD50 = > 5000 mg/kg Aquatic Chronic 1; H410: M=1	
123-31-9	204-617-8	hydroquinone	< 0.1 %
		dermal: LD50 = > 2000 mg/kg; oral: LD50 = > 375 mg/kg Aquatic Acute 1; H400: M=10 Aquatic Chronic 1; H410: M=1	

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### 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 (CO<sub>2</sub>), 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.

#### **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

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### 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

##### DNEL/DMEL values

CAS No	Name of agent	Exposure route	Effect	Value
868-77-9	2-hydroxyethyl methacrylate			
Worker DNEL, long-term		inhalation	systemic	4.9 mg/m <sup>3</sup>
Worker DNEL, long-term		dermal	systemic	1.39 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	1.45 mg/m <sup>3</sup>
Consumer DNEL, long-term		dermal	systemic	0.83 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	0.83 mg/kg bw/day
10595-06-9	2-phenoxyethyl methacrylate			
Worker DNEL, long-term		inhalation	systemic	12 mg/m <sup>3</sup>
Worker DNEL, long-term		inhalation	local	84 mg/m <sup>3</sup>
Worker DNEL, long-term		dermal	systemic	3.5 mg/kg bw/day
80-15-9	cumene hydroperoxide			
Worker DNEL, long-term		inhalation	systemic	6 mg/m <sup>3</sup>
150-76-5	4-methoxyphenol			
Worker DNEL, long-term		inhalation	systemic	3 mg/m <sup>3</sup>
79-41-4	methacrylic acid			
Worker DNEL, long-term		inhalation	systemic	39.3 mg/m <sup>3</sup>
Worker DNEL, long-term		inhalation	local	44 mg/m <sup>3</sup>
Worker DNEL, long-term		dermal	systemic	4.25 mg/kg bw/day
Worker DNEL, long-term		dermal	local	0.38 mg/cm <sup>2</sup>
Consumer DNEL, long-term		inhalation	systemic	11.7 mg/m <sup>3</sup>
Consumer DNEL, long-term		inhalation	local	8.8 mg/m <sup>3</sup>
Consumer DNEL, long-term		dermal	systemic	5.35 mg/kg bw/day
Consumer DNEL, long-term		dermal	local	0.23 mg/cm <sup>2</sup>
Consumer DNEL, long-term		oral	systemic	5.35 mg/kg bw/day

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#### DNEL/DMEL values

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26741-53-7	3,9-bis(2,4-di-tert-butylphenoxy)-2,4,8,10-tetraoxa-3,9-diphosphaspiro[5.5]undecane			
Worker DNEL, long-term		inhalation	systemic	2.75 mg/m <sup>3</sup>
Worker DNEL, long-term		dermal	systemic	0.78 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	0.68 mg/m <sup>3</sup>
Consumer DNEL, long-term		dermal	systemic	0.39 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	0.39 mg/kg bw/day
123-31-9	hydroquinone			
Worker DNEL, long-term		inhalation	systemic	2.1 mg/m <sup>3</sup>
Worker DNEL, long-term		dermal	systemic	3.33 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	1.05 mg/m <sup>3</sup>
Consumer DNEL, long-term		dermal	systemic	1.66 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	0.6 mg/kg bw/day

#### 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
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
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
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

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#### PNEC values

CAS No	Name of agent	Value
Environmental compartment		
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
26741-53-7	3,9-bis(2,4-di-tert-butylphenoxy)-2,4,8,10-tetraoxa-3,9-diphosphaspiro[5.5]undecane	
Freshwater		0.002 mg/l
Freshwater (intermittent releases)		0.707 mg/l
Marine water		0 mg/l
Freshwater sediment		2000000 mg/kg
Marine sediment		200000 mg/kg
Micro-organisms in sewage treatment plants (STP)		42 mg/l
Soil		1 mg/kg
123-31-9	hydroquinone	
Freshwater		0.00057 mg/l
Freshwater (intermittent releases)		0.00134 mg/l
Marine water		0.000057 mg/l
Freshwater sediment		0.0049 mg/kg
Marine sediment		0.00049 mg/kg
Micro-organisms in sewage treatment plants (STP)		0.71 mg/l
Soil		0.00064 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

###### 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

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Colour:	yellow
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):	not determined
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:

not determined

## **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.

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#### 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) &gt; 5000 mg/kg; ATE (dermal) &gt; 5000 mg/kg; ATE (inhalation vapour) &gt; 50 mg/l; ATE (inhalation dust/mist) &gt; 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
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			
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/manufa cturer	
	inhalation vapour	ATE 11 mg/l			OECD 403
	inhalation dust/mist	ATE 1,5 mg/l			
26741-53-7	3,9-bis(2,4-di-tert-butylphenoxy)-2,4,8,10-tetraoxa-3,9-diphosphaspiro[5.5]undecane				
	oral	LD50 > 5000 mg/kg	Rat	Study report (1984)	OECD Guideline 401
	dermal	LD50 > 2000 mg/kg	Rabbit	Study report (1994)	OECD Guideline 402
123-31-9	hydroquinone				
	oral	LD50 > 375 mg/kg	Rat	Food Chem Toxicol 45, 70 - 78 (2007)	OECD Guideline 401
	dermal	LD50 > 2000 mg/kg	Rabbit	Food Chem Toxicol 45, 70 - 78 (2007)	OECD Guideline 402

##### 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-hydroxyethyl methacrylate; 2-phenoxyethyl methacrylate; 4-methoxyphenol; hydroquinone)

##### Carcinogenic/mutagenic/toxic effects for reproduction

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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

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
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
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

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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
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
26741-53-7	3,9-bis(2,4-di-tert-butylphenoxy)-2,4,8,10-tetraoxa-3,9-diphosphaspiro[5.5]undecane					
	Acute fish toxicity	LC50 70.7 mg/l	96 h	Danio rerio	Study report (2013)	OECD Guideline 203
	Acute algae toxicity	ErC50 97 mg/l	72 h	Desmodesmus subspicatus	Study report (2013)	OECD Guideline 201
	Crustacea toxicity	NOEC 0.1 mg/l	21 d	Daphnia magna	Study report (2013)	OECD Guideline 211
	Acute bacteria toxicity	EC50 > 1000 mg/l ( )	3 h	activated sludge, domestic	Study report (2012)	OECD Guideline 209

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CAS No	Chemical name					
	Aquatic toxicity	Dose	[h][d]	Species	Source	Method
123-31-9	hydroquinone					
	Acute fish toxicity	LC50 0.638 mg/l	96 h	Oncorhynchus mykiss	REACH Registration Dossier	OECD Guideline 203
	Acute algae toxicity	ErC50 0.33 mg/l	72 h	Raphidocelis subcapitata	REACH Registration Dossier	OECD Guideline 201
	Acute crustacea toxicity	EC50 0.134 mg/l	48 h	Daphnia magna	Study report (2008)	OECD Guideline 202
	Fish toxicity	NOEC >= 0.1 mg/l	32 d	Pimephales promelas	REACH Registration Dossier	OECD Guideline 210
	Crustacea toxicity	NOEC 0.006 mg/l	21 d	Daphnia magna	REACH Registration Dossier	OECD Guideline 211

#### 12.2. Persistence and degradability

No data available

CAS No	Chemical name			
	Method	Value	d	Source
	Evaluation			
26741-53-7	3,9-bis(2,4-di-tert-butylphenoxy)-2,4,8,10-tetraoxa-3,9-diphosphaspiro[5.5]undecane			
	Activated sludge, Concentration: 31 mg/l	<10%	28	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
868-77-9	2-hydroxyethyl methacrylate	0.42
10595-06-9	2-phenoxyethyl methacrylate	3.137
150-76-5	4-methoxyphenol	1.62
79-41-4	methacrylic acid	0.93
26741-53-7	3,9-bis(2,4-di-tert-butylphenoxy)-2,4,8,10-tetraoxa-3,9-diphosphaspiro[5.5]undecane	10.9
123-31-9	hydroquinone	0.59

#### BCF

CAS No	Chemical name	BCF	Species	Source
26741-53-7	3,9-bis(2,4-di-tert-butylphenoxy)-2,4,8,10-tetraoxa-3,9-diphosphaspiro[5.5]undecane	0.89		SAR and QSAR in Envi

#### 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

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### 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

#### 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.

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(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):**

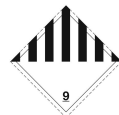
9

**14.4. Packing group:**

III

Hazard label:

9



Special Provisions:

274 335 375 969

Limited quantity:

5 L

Excepted quantity:

E1

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)

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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

Directive 2010/75/EU on industrial emissions: 1.303 %

Information according to Directive 2012/18/EU (SEVESO III): E2 Hazardous to the Aquatic Environment

##### 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: 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): 8,14.

#### Abbreviations and acronyms

Org. Perox. E: Organic peroxides, type E

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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  
 Muta. 2: Germ cell mutagenicity, hazard category 2  
 Carc. 2: Carcinogenicity, hazard category 2  
 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%  
 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

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

Classification	Classification procedure
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.
H341	Suspected of causing genetic defects.
H351	Suspected of causing cancer.
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.

**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.

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