

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

**1666 MA structural adhesive - 1666A resin**

Revision: 28.01.2026

Product code: 1666A

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

#### 1.1. Product identifier

1666 MA structural adhesive - 1666A resin

Product group:

UFI: 5FDV-YFY0-J00F-E4QE

#### 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

Flam. Sol. 1; H228  
Skin Irrit. 2; H315  
Eye Dam. 1; H318  
Skin Sens. 1; H317  
STOT SE 3; H335  
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

methyl methacrylate  
[2-(Methacryloyloxy)-ethyl]-hydrogen succinate  
methacrylic acid

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Reaction mass of 2,2'-[(4-methylphenyl)imino]bisethanol and Ethanol  
 2-[[2-(2-hydroxyethoxy)ethyl](4-methylphenyl)amino]-  
 Propylidynetrimethanol, ethoxylated, esters with acrylic acid  
 2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, reaction products with phosphorus oxide  
 2-hydroxyethyl methacrylate

**Signal word:** Danger

**Pictograms:**



#### Hazard statements

- H228 Flammable solid.  
 H315 Causes skin irritation.  
 H317 May cause an allergic skin reaction.  
 H318 Causes serious eye damage.  
 H335 May cause respiratory irritation.  
 H412 Harmful to aquatic life with long lasting effects.

#### Precautionary statements

- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
 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.

#### Labelling of packages where the contents do not exceed 125 ml

**Signal word:** Danger

**Pictograms:**



#### Hazard statements

H317-H318-H412

#### 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)			
80-62-6	methyl methacrylate			30 - < 50 %
	201-297-1	607-035-00-6	01-2119452498-28	
	Flam. Liq. 2, Skin Irrit. 2, Skin Sens. 1, STOT SE 3; H225 H315 H317 H335			

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CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (Regulation (EC) No 1272/2008)			
20882-04-6	[2-(Methacryloyloxy)-ethyl]-hydrogen succinate			5 - < 15 %
	244-096-4		01-2120137902-58	
	Eye Dam. 1, Skin Sens. 1A; H318 H317			
79-41-4	methacrylic acid			3 - < 5 %
	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			
	Reaction mass of 2,2'-[(4-methylphenyl)imino]bisethanol and Ethanol 2-[[2-(2-hydroxyethoxy)ethyl](4-methylphenyl)amino]-			0.1 - < 1 %
	911-490-9		01-2119979579-10	
	Acute Tox. 4, Skin Irrit. 2, Eye Dam. 1, Skin Sens. 1, Aquatic Chronic 3; H302 H315 H318 H317 H412			
28961-43-5	Propylidynetrimethanol, ethoxylated, esters with acrylic acid			0.1 - < 1 %
	500-066-5		01-2119489900-30	
	Eye Irrit. 2, Skin Sens. 1B, Aquatic Chronic 2; H319 H317 H411			
1187441-1 0-6	2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, reaction products with phosphorus oxide			0.1 - < 1 %
	810-703-1		01-2120140608-57	
	Eye Dam. 1, Skin Sens. 1; H318 H317			
868-77-9	2-hydroxyethyl methacrylate			0.1 - < 1 %
	212-782-2	607-124-00-X	01-2119490169-29	
	Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1; H315 H319 H317			
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			
106-51-4	p-benzoquinone			< 0.1 %
	203-405-2	606-013-00-3	01-2120769514-47	
	Acute Tox. 3, Acute Tox. 3, Skin Irrit. 2, Eye Irrit. 2, STOT SE 3, Aquatic Acute 1; H331 H301 H315 H319 H335 H400			
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			
36443-68-2	Ethylenebis(oxyethylene) bis[3-(5-tert-butyl-4-hydroxy-m-tolyl)propionate]			< 0.1 %
	253-039-2		01-2119956160-44	
	Aquatic Chronic 1; 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		
80-62-6	201-297-1	methyl methacrylate	30 - < 50 %
	inhalation: LC50 = 29,8 mg/l (vapours); dermal: LD50 = > 5000 mg/kg; oral: LD50 = ca. 7900 mg/kg		
20882-04-6	244-096-4	[2-(Methacryloyloxy)-ethyl]-hydrogen succinate	5 - < 15 %
	oral: LD50 = > 2000 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	
79-41-4	201-204-4	methacrylic acid	3 - < 5 %
		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	
	911-490-9	Reaction mass of 2,2'-[(4-methylphenyl)imino]bisethanol and Ethanol 2-[[2-(2-hydroxyethoxy)ethyl](4-methylphenyl)amino]-	0.1 - < 1 %
		oral: ATE = 500 mg/kg	
28961-43-5	500-066-5	Propylidynetrimethanol, ethoxylated, esters with acrylic acid	0.1 - < 1 %
		dermal: LD50 = > 13200 mg/kg; oral: LD50 = > 2000 mg/kg	
1187441-1 0-6	810-703-1	2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, reaction products with phosphorus oxide	0.1 - < 1 %
		dermal: LD50 = > 2000 mg/kg; oral: LD50 = > 2000 mg/kg	
868-77-9	212-782-2	2-hydroxyethyl methacrylate	0.1 - < 1 %
		dermal: LD50 = > 5000 mg/kg; oral: LD50 = 5564 mg/kg	
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	
106-51-4	203-405-2	p-benzoquinone	< 0.1 %
		inhalation: ATE = 3 mg/l (vapours); inhalation: ATE = 0,5 mg/l (dusts or mists); oral: LD50 = 165 mg/kg Aquatic Acute 1; H400: M=10	
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	
36443-68-2	253-039-2	Ethylenebis(oxyethylene) bis[3-(5-tert-butyl-4-hydroxy-m-tolyl)propionate]	< 0.1 %
		dermal: LD50 = > 2000 mg/kg; oral: LD50 = > 7000 mg/kg Aquatic Chronic 1; H410: M=10	

#### 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

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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

## **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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#### Occupational exposure limit values

CAS No	Name of agent	ppm	mg/m <sup>3</sup>	fib/cm <sup>3</sup>	Category	Origin
80-62-6	Methyl methacrylate	50	-		TWA (8 h)	
		100	-		STEL (15 min)	

#### DNEL/DMEL values

CAS No	Name of agent	Exposure route	Effect	Value
80-62-6	methyl methacrylate			
Worker DNEL, long-term		inhalation	systemic	348,4 mg/m <sup>3</sup>
Worker DNEL, long-term		inhalation	local	208 mg/m <sup>3</sup>
Worker DNEL, acute		inhalation	local	416 mg/m <sup>3</sup>
Worker DNEL, long-term		dermal	systemic	13,67 mg/kg bw/day
Worker DNEL, long-term		dermal	local	1,5 mg/cm <sup>2</sup>
Worker DNEL, acute		dermal	local	1,5 mg/cm <sup>2</sup>
Consumer DNEL, long-term		inhalation	systemic	74,3 mg/m <sup>3</sup>
Consumer DNEL, long-term		inhalation	local	104 mg/m <sup>3</sup>
Consumer DNEL, acute		inhalation	local	208 mg/m <sup>3</sup>
Consumer DNEL, long-term		dermal	systemic	8,2 mg/kg bw/day
Consumer DNEL, long-term		dermal	local	1,5 mg/cm <sup>2</sup>
Consumer DNEL, acute		dermal	local	1,5 mg/cm <sup>2</sup>
Consumer DNEL, long-term		oral	systemic	8,2 mg/kg bw/day
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
28961-43-5	Propylidynetrimethanol, ethoxylated, esters with acrylic acid			
Worker DNEL, long-term		inhalation	systemic	37 mg/m <sup>3</sup>
Worker DNEL, long-term		dermal	systemic	10.5 mg/kg bw/day
1187441-10-6	2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, reaction products with phosphorus oxide			
Worker DNEL, long-term		inhalation	systemic	7.05 mg/m <sup>3</sup>
Worker DNEL, long-term		dermal	systemic	1 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	3.53 mg/m <sup>3</sup>
Consumer DNEL, long-term		dermal	systemic	0.5 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	0.5 mg/kg bw/day
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
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

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#### DNEL/DMEL values

CAS No	Name of agent	Exposure route	Effect	Value
	DNEL type			
	Consumer DNEL, long-term	oral	systemic	0.39 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	
80-62-6	methyl methacrylate	
	Freshwater	0,94 mg/l
	Freshwater (intermittent releases)	0,69 mg/l
	Marine water	0,094 mg/l
	Freshwater sediment	10,2 mg/kg
	Marine sediment	1,02 mg/kg
	Micro-organisms in sewage treatment plants (STP)	10 mg/l
	Soil	1,48 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
28961-43-5	Propylidynetrimethanol, ethoxylated, esters with acrylic acid	
	Freshwater	0.002 mg/l
	Freshwater (intermittent releases)	0.019 mg/l
	Marine water	0 mg/l
	Freshwater sediment	0.038 mg/kg
	Marine sediment	0.004 mg/kg
	Micro-organisms in sewage treatment plants (STP)	10 mg/l
	Soil	0.006 mg/kg
1187441-10-6	2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, reaction products with phosphorus oxide	
	Freshwater	0.165 mg/l
	Freshwater (intermittent releases)	1.65 mg/l
	Marine water	0.017 mg/l
	Freshwater sediment	2.8 mg/kg
	Marine sediment	0.28 mg/kg
	Micro-organisms in sewage treatment plants (STP)	0.4 mg/l
	Soil	0.46 mg/kg
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

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#### PNEC values

CAS No	Name of agent	Value
Environmental compartment		
Soil		0.476 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
36443-68-2	Ethylenebis(oxyethylene) bis[3-(5-tert-butyl-4-hydroxy-m-tolyl)propionate]	
Freshwater		0.001 mg/l
Marine water		0 mg/l
Freshwater sediment		0.195 mg/kg
Marine sediment		0.019 mg/kg

#### 8.2. Exposure controls



##### Appropriate engineering controls

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

##### Individual protection measures, such as personal protective equipment

###### Eye/face protection

Wear eye/face protection.

###### Hand protection

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

###### Skin protection

Avoid contact with skin, eyes and clothes.

###### Respiratory protection

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

###### Environmental exposure controls

Do not allow to enter into surface water or drains.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state: Paste  
Colour: beige

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Odour: characteristic  
 Odour threshold: not determined

#### Test method

Melting point/freezing point:	not determined	
Boiling point or initial boiling point and boiling range:	100 °C	
Flammability:	not determined	not applicable
Lower explosion limits:	not determined	
Upper explosion limits:	not determined	
Flash point:	27 °C	ISO 3679
Auto-ignition temperature:	395 °C	
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 (at 20 °C):	37 hPa	
Density (at 20 °C):	0.99 g/cm <sup>3</sup>	
Relative density:	not determined	
Relative vapour density:	not determined	

## 9.2. Other information

### Information with regard to physical hazard classes

Explosive properties  
 The product is not: Explosive.

Oxidizing properties  
 not determined

### Other safety characteristics

Evaporation rate: not determined  
 Solid content: not determined  
 Viscosity / dynamic (at 25 °C): 175.000 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.

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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

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
80-62-6	methyl methacrylate				
	oral	LD50 ca. 7900 mg/kg	Rat	J. Ind. Hyg. Toxicol. 23: 343-351 (1941)	Study to assess the acute oral toxicity
	dermal	LD50 > 5000 mg/kg	Rabbit	Study report (1982)	OECD Guideline 402
	inhalation (4 h) vapour	LC50 29,8 mg/l	Rat	J. Dent. Res. 59: 1074 (1980)	Study to assess the acute inhalative tox
20882-04-6	[2-(Methacryloyloxy)-ethyl]-hydrogen succinate				
	oral	LD50 > 2000 mg/kg	Rat	Study report (2016)	OECD Guideline 423
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			
	Reaction mass of 2,2'-[(4-methylphenyl)imino]bisethanol and Ethanol 2-[[2-(2-hydroxyethoxy)ethyl](4-methylphenyl)amino]-				
	oral	ATE 500 mg/kg			
28961-43-5	Propylidynetrimethanol, ethoxylated, esters with acrylic acid				
	oral	LD50 > 2000 mg/kg	Rat	Study report (1998)	OECD Guideline 401
	dermal	LD50 > 13200 mg/kg	Rabbit	Study report (1984)	An acute dermal toxicity study was performed
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
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 held

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CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
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
106-51-4	p-benzoquinone				
	oral	LD50 165 mg/kg	Rat	Omaye ST, Wirtz RA, Fruin JT. Toxicity o	[Empty]
	inhalation vapour	ATE 3 mg/l			
	inhalation dust/mist	ATE 0,5 mg/l			
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
36443-68-2	Ethylenebis(oxyethylene) bis[3-(5-tert-butyl-4-hydroxy-m-tolyl)propionate]				
	oral	LD50 > 7000 mg/kg	Rat	Study report (1979)	OECD Guideline 423
	dermal	LD50 > 2000 mg/kg	Rat	Study report (1992)	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. (methyl methacrylate; [2-(Methacryloyloxy)-ethyl]-hydrogen succinate; Reaction mass of 2,2'-[(4-methylphenyl)imino]bisethanol and Ethanol 2-[[2-(2-hydroxyethoxy)ethyl](4-methylphenyl)amino]-; Propylidynetrimethanol, ethoxylated, esters with acrylic acid; 2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, reaction products with phosphorus oxide; 2-hydroxyethyl methacrylate; hydroquinone)

#### 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

May cause respiratory irritation. (methyl methacrylate; methacrylic acid)

#### 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

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#### 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.

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h][d]	Species	Source	Method
80-62-6	methyl methacrylate					
	Acute fish toxicity	LC50 > 79 mg/l	96 h	Oncorhynchus mykiss	REACH Registration Dossier	EPA OTS 797.1400
	Acute algae toxicity	ErC50 > 110 mg/l	72 h	Raphidocelis subcapitata	REACH Registration Dossier	OECD Guideline 201
	Acute crustacea toxicity	EC50 69 mg/l	48 h	Daphnia magna	REACH Registration Dossier	EPA OTS 797.1300
	Fish toxicity	NOEC 9,4 mg/l	35 d	Danio rerio	REACH Registration Dossier	OECD Guideline 210
	Crustacea toxicity	NOEC 37 mg/l	21 d	Daphnia magna	REACH Registration Dossier	OECD Guideline 211
	Acute bacteria toxicity	EC50 3162 mg/l ( )	3 h	Activated sludge	Publication (2008)	ISO 8192
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

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CAS No	Chemical name					
	Aquatic toxicity	Dose	[h][d]	Species	Source	Method
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
28961-43-5	Propylidynetrimethanol, ethoxylated, esters with acrylic acid					
	Acute fish toxicity	LC50 1.95 mg/l	96 h	Danio rerio	REACH Registration Dossier	OECD Guideline 203
	Acute algae toxicity	ErC50 2.2 mg/l	72 h	Desmodesmus subspicatus	REACH Registration Dossier	OECD Guideline 201
	Acute crustacea toxicity	EC50 70.7 mg/l	48 h	Daphnia magna	REACH Registration Dossier	OECD Guideline 202
1187441-10-6	2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, reaction products with phosphorus oxide					
	Acute fish toxicity	LC50 > 100 mg/l	96 h	Cyprinus carpio	REACH Registration Dossier	EU Method C.1
	Acute algae toxicity	ErC50 90 mg/l	72 h	Selenastrum capricornutum, strain: NIVA CHL 1.	REACH Registration Dossier	OECD Guideline 201
	Acute crustacea toxicity	EC50 > 100 mg/l	48 h	Daphnia magna	REACH Registration Dossier	OECD Guideline 202
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

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CAS No	Chemical name					
	Aquatic toxicity	Dose	[h][d]	Species	Source	Method
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
106-51-4	p-benzoquinone					
	Acute algae toxicity	ErC50 1.5 mg/l	72 h	Desmodesmus subspicatus (previous name: Scenedesmu)	study report (2018)	OECD Guideline 201
	Acute crustacea toxicity	EC50 0.13 mg/l	48 h	Daphnia magna	study report (2018)	OECD Guideline 202
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
36443-68-2	Ethylenebis(oxyethylene) bis[3-(5-tert-butyl-4-hydroxy-m-tolyl)propionate]					
	Acute fish toxicity	LC50 43 mg/l	96 h	Lepomis macrochirus	REACH Registration Dossier	OECD Guideline 203
	Acute algae toxicity	ErC50 > 100 mg/l	72 h	Desmodesmus subspicatus	REACH Registration Dossier	EU Method C.3
	Acute crustacea toxicity	EC50 > 100 mg/l	48 h		REACH Registration Dossier	
	Fish toxicity	NOEC > 0.115 mg/l	7 d	Pimephales promelas	REACH Registration Dossier	OECD Guideline 210
	Crustacea toxicity	NOEC > 0.045 mg/l	21 d	Daphnia magna	REACH Registration Dossier	OECD Guideline 211

#### 12.2. Persistence and degradability

No data available

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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).			
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
80-62-6	methyl methacrylate	1,38
20882-04-6	[2-(Methacryloyloxy)-ethyl]-hydrogen succinate	0.782
79-41-4	methacrylic acid	0.93
28961-43-5	Propylidynetrimethanol, ethoxylated, esters with acrylic acid	2.89
1187441-10-6	2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, reaction products with phosphorus oxide	>= 0.3
868-77-9	2-hydroxyethyl methacrylate	0.42
26741-53-7	3,9-bis(2,4-di-tert-butylphenoxy)-2,4,8,10-tetraoxa-3,9-diphosphaspiro[5.5]undecane	10.9
106-51-4	p-benzoquinone	0.2
123-31-9	hydroquinone	0.59
36443-68-2	Ethylenebis(oxyethylene) bis[3-(5-tert-butyl-4-hydroxy-m-tolyl)propionate]	4.7

### 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
36443-68-2	Ethylenebis(oxyethylene) bis[3-(5-tert-butyl-4-hydroxy-m-tolyl)propionate]	2 - 12	Cyprinus carpio	REACH Registration D

### 12.4. Mobility in soil

No data available

### 12.5. Results of PBT and vPvB assessment

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

### 12.6. Endocrine disrupting properties

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

### 12.7. Other adverse effects

No data available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

#### Disposal recommendations

Dispose of waste according to applicable legislation.

#### List of Wastes Code - residues/unused products

080410 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND

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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:** UN 3175  
**14.2. UN proper shipping name:** SOLIDS CONTAINING FLAMMABLE LIQUID, N.O.S. (BMMA-COPOLYMER)  
**14.3. Transport hazard class(es):** 4.1  
**14.4. Packing group:** II  
 Hazard label: 4.1



Classification code: F1  
 Special Provisions: 216 274 601  
 Limited quantity: 1 kg  
 Excepted quantity: E2  
 Transport category: 2  
 Hazard No: 40  
 Tunnel restriction code: E

#### Inland waterways transport (ADN)

**14.1. UN number or ID number:** UN 3175  
**14.2. UN proper shipping name:** SOLIDS CONTAINING FLAMMABLE LIQUID, N.O.S. (BMMA-COPOLYMER)  
**14.3. Transport hazard class(es):** 4.1  
**14.4. Packing group:** II  
 Hazard label: 4.1



Classification code: F1  
 Special Provisions: 216 274 601 800  
 Limited quantity: 1 kg  
 Excepted quantity: E2

#### Marine transport (IMDG)

**14.1. UN number or ID number:** UN 3175  
**14.2. UN proper shipping name:** SOLIDS CONTAINING FLAMMABLE LIQUID, N.O.S. (BMMA-COPOLYMER)  
**14.3. Transport hazard class(es):** 4.1

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#### **14.4. Packing group:**

II

Hazard label:

4.1



Special Provisions:

216 274

Limited quantity:

1 kg

Excepted quantity:

E2

EmS:

F-A, S-I

#### **Air transport (ICAO-TI/IATA-DGR)**

##### **14.1. UN number or ID number:**

UN 3175

##### **14.2. UN proper shipping name:**

SOLIDS CONTAINING FLAMMABLE LIQUID, N.O.S. (BMMA-COPOLYMER)

##### **14.3. Transport hazard class(es):**

4.1

##### **14.4. Packing group:**

II

Hazard label:

4.1



Special Provisions:

A46

Limited quantity Passenger:

5 kg

Passenger LQ:

Y441

Excepted quantity:

E2

IATA-packing instructions - Passenger:

445

IATA-max. quantity - Passenger:

15 kg

IATA-packing instructions - Cargo:

448

IATA-max. quantity - Cargo:

50 kg

#### **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**

No information available.

#### **Other applicable information**

1666A + 1666B: UN 3527 = POLYESTER RESIN KIT, solid base material, Class 4.1, II

### 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 40, Entry 75

Directive 2010/75/EU on industrial emissions:

52.004 % (514.844 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). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing

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	mothers.
Water hazard class (D):	3 - highly hazardous to water
(EU) EINECS/ELINCS/NLP:	yes
(RC) TCSI:	no
(NZ) NZIoC:	unknown
(USA) TSCA:	yes
(CDN) DSL:	no
(ROK) KECI/ECL:	no
(RP) PICCS:	unknown
(JP) MITI:	no
(CHN) IECSC:	yes
(AUS) AIIC:	no
(CDN) NDSL:	no

### 15.2. Chemical safety assessment

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

## SECTION 16: Other information

### Changes

This data sheet contains changes from the previous version in section(s): 1,8,14.

### Abbreviations and acronyms

Flam. Liq. 2: Flammable liquids, hazard category 2  
Flam. Sol. 1: Flammable solids, hazard category 1  
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 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  
Muta. 2: Germ cell mutagenicity, hazard category 2  
Carc. 2: Carcinogenicity, hazard category 2  
STOT SE 3: Specific target organ toxicity - single exposure, hazard category 3  
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

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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

MFAAG: 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
Flam. Sol. 1; H228	On basis of test data
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 3; H412	Calculation method

**Relevant H and EUH statements (number and full text)**

H225	Highly flammable liquid and vapour.
H228	Flammable solid.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H311	Toxic 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.
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.

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

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