

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### Kisling - 1644 - Component B 1645

Revision date: 03.05.2024

Product code: 1644

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

##### 1.1. Product identifier

Kisling - 1644 - Component B 1645

UFI: N5J4-80GV-F000-ADX1

##### 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:	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:	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. Liq. 2; H225  
Skin Irrit. 2; H315  
Eye Irrit. 2; H319  
Skin Sens. 1; H317  
STOT SE 3; H335

Full text of hazard statements: see SECTION 16.

##### 2.2. Label elements

###### Regulation (EC) No 1272/2008

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#### Hazard components for labelling

methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate  
reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight <= 700)  
methacrylic acid; 2-methylpropenoic acid  
Zinc methacrylate  
1,3-bis[12-hydroxy-octadecamide-N-methylene]-benzene  
Octadecanoic acid, 12-hydroxy-, reaction products with ethylenediamine  
Silicone acrylate

**Signal word:** Danger

**Pictograms:**



#### Hazard statements

H225 Highly flammable liquid and vapour.  
H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H319 Causes serious eye irritation.  
H335 May cause respiratory irritation.

#### 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.  
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.  
P403+P235 Store in a well-ventilated place. Keep cool.

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

**Signal word:** Danger

**Pictograms:**



#### Hazard statements

H317

#### Precautionary statements

P280-P333+P313

#### 2.3. Other hazards

No information available.

### SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

##### Chemical characterization

Mixture of substances listed below with nonhazardous components.

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#### Relevant ingredients

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (Regulation (EC) No 1272/2008)			
80-62-6	methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate			50 - < 100 %
	201-297-1	607-035-00-6		
	Flam. Liq. 2, Skin Irrit. 2, Skin Sens. 1, STOT SE 3; H225 H315 H317 H335			
82339-26-2	Poly(oxy-1,4-butanediyl), alpha-hydro-omega-hydroxy-, polymer with 5-isocyanato-1-(isocyanatomethyl)-1,3,3-trimethylcyclohexane, 2-hydroxyethyl methacrylate-blocked			5 - < 15 %
	817-894-0			
	Skin Irrit. 2, Eye Irrit. 2; H315 H319			
25068-38-6	reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight <= 700)			1 - < 5 %
	500-033-5	603-074-00-8	01-2119456619-26	
	Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1, Aquatic Chronic 2; H315 H319 H317 H411			
79-41-4	methacrylic acid; 2-methylpropenoic acid			1 - < 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			
52628-03-2	2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, phosphate			1 - < 5 %
	258-053-2			
	Skin Irrit. 2, Eye Dam. 1; H315 H318			
142-90-5	dodecyl methacrylate			1 - < 5 %
	205-570-6	607-247-00-9		
	STOT SE 3; H335			
13189-00-9	Zinc methacrylate			0.1 - < 1 %
	236-144-8		01-2119976363-30	
	Acute Tox. 4, Eye Irrit. 2, Skin Sens. 1B, Aquatic Acute 1; H302 H319 H317 H400			
911674-82-3	1,3-bis[12-hydroxy-octadecamide-N-methylene]-benzene			0.1 - < 1 %
	423-300-7		01-0000016979-49	
	Skin Sens. 1, Aquatic Chronic 4; H317 H413			
38668-48-3	1,1'-(p-tolylimino)dipropan-2-ol			0.1 - < 1 %
	254-075-1		01-2119980937-17	
	Acute Tox. 2, Eye Irrit. 2, Aquatic Chronic 3; H300 H319 H412			
100545-48-0	Octadecanoic acid, 12-hydroxy-, reaction products with ethylenediamine			0.1 - < 1 %
	309-629-8		01-2119979085-27	
	Skin Sens. 1, Aquatic Chronic 3; H317 H412			
125455-52-9	Silicone acrylate			0.1 - < 1 %
	603-070-6			
	Skin Sens. 1B; H317			
99-97-8	N,N-dimethyl-p-toluidine			0.1 - < 1 %
	202-805-4	612-056-00-9	01-2119956633-31	
	Acute Tox. 3, Acute Tox. 3, Acute Tox. 3, STOT RE 2, Aquatic Chronic 3; H331 H311 H301 H373 H412			

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

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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	
80-62-6	201-297-1	methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate	50 - < 100 %
		inhalation: LC50 = 29,8 mg/l (vapours); dermal: LD50 = > 5000 mg/kg; oral: LD50 = ca. 7900 mg/kg	
25068-38-6	500-033-5	reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight <= 700)	1 - < 5 %
		Skin Irrit. 2; H315: >= 5 - 100 Eye Irrit. 2; H319: >= 5 - 100	
79-41-4	201-204-4	methacrylic acid; 2-methylpropenoic acid	1 - < 5 %
		inhalation: LC50 = 7,1 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	
52628-03-2	258-053-2	2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, phosphate	1 - < 5 %
		oral: LD50 = > 2000 mg/kg	
142-90-5	205-570-6	dodecyl methacrylate	1 - < 5 %
		dermal: LD50 = > 3000 mg/kg; oral: LD50 = > 5000 mg/kg STOT SE 3; H335: >= 10 - 100	
13189-00-9	236-144-8	Zinc methacrylate	0.1 - < 1 %
		inhalation: LC50 = > 5.32 mg/l (dusts or mists); oral: LD50 = ca. 500 mg/kg Aquatic Acute 1; H400: M=1	
38668-48-3	254-075-1	1,1'-(p-tolylimino)dipropan-2-ol	0.1 - < 1 %
		dermal: LD50 = > 2000 mg/kg; oral: LD50 = > 25 - < 200 mg/kg	
99-97-8	202-805-4	N,N-dimethyl-p-toluidine	0.1 - < 1 %
		inhalation: ATE = 3 mg/l (vapours); inhalation: ATE = 0.5 mg/l (dusts or mists); dermal: ATE = 300 mg/kg; oral: ATE = 100 mg/kg	

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### General information

Take off immediately all contaminated clothing.

#### After inhalation

Provide fresh air. If breathing is irregular or stopped, administer artificial respiration. Medical treatment necessary. When in doubt or if symptoms are observed, get medical advice.

#### After contact with skin

After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated clothing and wash it before reuse. Medical treatment necessary. After contact with skin, wash immediately with plenty of water and soap. In case of skin irritation, consult a physician.

#### After contact with eyes

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. Remove contact lenses, if present and easy to do. Continue rinsing.

#### After ingestion

Observe risk of aspiration if vomiting occurs. Rinse mouth immediately and drink 1 glass of water. Do NOT induce vomiting. Get immediate medical advice/attention.

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

No further relevant information available.

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

Treat symptomatically. No further relevant information available.

## SECTION 5: Firefighting measures

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#### 5.1. Extinguishing media

##### **Suitable extinguishing media**

Co-ordinate fire-fighting measures to the fire surroundings. Co-ordinate fire-fighting measures to the fire surroundings.

##### **Unsuitable extinguishing media**

No information available.

#### 5.2. Special hazards arising from the substance or mixture

In case of fire and/or explosion do not breathe fumes.

#### 5.3. Advice for firefighters

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

#### **Additional information**

Use water spray jet to protect personnel and to cool endangered containers. Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

##### **General advice**

Provide adequate ventilation. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Use personal protection equipment. Provide adequate ventilation. Wear breathing apparatus if exposed to vapours/dusts/aerosols.

#### 6.2. Environmental precautions

Do not allow to enter into surface water or drains. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

#### 6.3. Methods and material for containment and cleaning up

##### **For cleaning up**

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

#### 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**

No special handling advices are necessary.

##### **Advice on protection against fire and explosion**

No special fire protection measures are necessary.

##### **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.

#### 7.2. Conditions for safe storage, including any incompatibilities

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#### Requirements for storage rooms and vessels

Keep container tightly closed. Keep locked up. Store in a place accessible by authorized persons only. Provide adequate ventilation as well as local exhaustion at critical locations.

#### Hints on joint storage

none

#### Further information on storage conditions

Store in a cool dry place. Protect from direct sunlight.

#### 7.3. Specific end use(s)

No further relevant information available.

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### 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)	

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#### DNEL/DMEL values

CAS No	Name of agent	Exposure route	Effect	Value
80-62-6	methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate			
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; 2-methylpropenoic 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
52628-03-2	2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, phosphate			
Worker DNEL, long-term		inhalation	systemic	7,04 mg/m <sup>3</sup>
Consumer DNEL, long-term		inhalation	systemic	1,74 mg/m <sup>3</sup>
142-90-5	dodecyl methacrylate			
Worker DNEL, long-term		dermal	systemic	41.66 mg/kg bw/day
Consumer DNEL, long-term		dermal	systemic	25 mg/kg bw/day
13189-00-9	Zinc methacrylate			
Worker DNEL, long-term		inhalation	systemic	5.28 mg/m <sup>3</sup>
Worker DNEL, long-term		dermal	systemic	0.749 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	0.931 mg/m <sup>3</sup>
Consumer DNEL, long-term		dermal	systemic	0.268 mg/kg bw/day

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Consumer DNEL, long-term	oral	systemic	0.268 mg/kg bw/day
38668-48-3	1,1'-(p-tolylimino)dipropan-2-ol		
Worker DNEL, long-term	inhalation	systemic	2.47 mg/m <sup>3</sup>
Worker DNEL, long-term	dermal	systemic	0.7 mg/kg bw/day
Consumer DNEL, long-term	oral	systemic	0.25 mg/kg bw/day
100545-48-0	Octadecanoic acid, 12-hydroxy-, reaction products with ethylenediamine		
Worker DNEL, long-term	inhalation	local	0.308 mg/m <sup>3</sup>
Consumer DNEL, long-term	inhalation	local	0.055 mg/m <sup>3</sup>
99-97-8	N,N-dimethyl-p-toluidine		
Worker DNEL, long-term	inhalation	systemic	0,128 mg/m <sup>3</sup>
Worker DNEL, long-term	dermal	systemic	0,624 mg/kg bw/day
Consumer DNEL, long-term	inhalation	systemic	0,336 mg/m <sup>3</sup>
Consumer DNEL, long-term	dermal	systemic	0,223 mg/kg bw/day
Consumer DNEL, long-term	oral	systemic	0,02 mg/kg bw/day



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#### PNEC values

CAS No	Name of agent	Value
Environmental compartment		
80-62-6	methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate	
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; 2-methylpropenoic 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
52628-03-2	2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, phosphate	
Freshwater		0,068 mg/l
Freshwater (intermittent releases)		0,68 mg/l
Marine water		0,007 mg/l
Freshwater sediment		0,481 mg/kg
Marine sediment		0,048 mg/kg
Micro-organisms in sewage treatment plants (STP)		0,546 mg/l
Soil		0,056 mg/kg
13189-00-9	Zinc methacrylate	
Freshwater		0.00056 mg/l
Freshwater (intermittent releases)		0.0056 mg/l
Freshwater sediment		6.14 mg/kg
Marine sediment		0.614 mg/kg
Micro-organisms in sewage treatment plants (STP)		10 mg/l
Soil		1.23 mg/kg
38668-48-3	1,1'-(p-tolylimino)dipropan-2-ol	
Freshwater		0.017 mg/l
Freshwater (intermittent releases)		0.17 mg/l
Marine water		0.002 mg/l
Freshwater sediment		0.163 mg/kg
Marine sediment		0.016 mg/kg
Micro-organisms in sewage treatment plants (STP)		199.5 mg/l
Soil		0.023 mg/kg
100545-48-0	Octadecanoic acid, 12-hydroxy-, reaction products with ethylenediamine	

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Freshwater sediment	0.058 mg/kg
Marine sediment	0.0058 mg/kg
Soil	0.484 mg/kg
99-97-8	N,N-dimethyl-p-toluidine
Freshwater	0,153 mg/l
Freshwater (intermittent releases)	0,153 mg/l
Marine water	0,015 mg/l
Freshwater sediment	45,378 mg/kg
Marine sediment	45,378 mg/kg
Micro-organisms in sewage treatment plants (STP)	4,286 mg/l
Soil	18,677 mg/kg

#### 8.2. Exposure controls



##### Appropriate engineering controls

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray.

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

##### Eye/face protection

Suitable eye protection: goggles.

##### Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. Tested protective gloves must be worn.

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

##### Skin protection

Wear suitable protective clothing. The type of personal protection equipment has to be chosen based on the concentration and amount of the dangerous substance at the workplace.

##### Respiratory protection

In case of inadequate ventilation wear respiratory protection. If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

### SECTION 9: Physical and chemical properties

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

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

##### Test method

Melting point/freezing point:	not determined
Boiling point or initial boiling point and boiling range:	> 100 °C

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Flammability:	not determined	not applicable
Lower explosion limits:	not determined	
Upper explosion limits:	not determined	
Flash point:	10 °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: (at 20 °C)	37 hPa	
Density (at 20 °C):	1,03 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:

100.000 - 250.000 mPa·s

## **SECTION 10: Stability and reactivity**

### **10.1. Reactivity**

No further relevant information available.

### **10.2. Chemical stability**

The product is stable under storage at normal ambient temperatures.

### **10.3. Possibility of hazardous reactions**

No known hazardous reactions.

### **10.4. Conditions to avoid**

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

### **10.5. Incompatible materials**

No further relevant information available.

### **10.6. Hazardous decomposition products**

No further relevant information 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.

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#### ATEmix calculated

ATE (oral) 2253 mg/kg; ATE (dermal) 16816 mg/kg; ATE (inhalation vapour) 309.6 mg/l; ATE (inhalation dust/mist) 44.64 mg/l

CAS No	Chemical name					
	Exposure route	Dose	Species	Source	Method	
80-62-6	methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate					
	oral	LD50 mg/kg	ca. 7900	Rat	J. Ind. Hyg. Toxicol. 23: 343-351 (1941)	Study to assess the acute oral toxicity
	dermal	LD50 mg/kg	> 5000	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
79-41-4	methacrylic acid; 2-methylpropenoic acid					
	oral	LD50 mg/kg	1320	Rat	Study report (1977)	OECD Guideline 401
	dermal	LD50 mg/kg	500	Rabbit	Pre-supplier/manufacter	
	inhalation (4 h) vapour	LC50	7,1 mg/l	Rat	Pre-supplier/manufacter	OECD 403
	inhalation dust/mist	ATE	1.5 mg/l			
52628-03-2	2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, phosphate					
	oral	LD50 mg/kg	> 2000	Rat	Study report (2013)	OECD Guideline 425
142-90-5	dodecyl methacrylate					
	oral	LD50 mg/kg	> 5000	Rat	Study report (1988)	OECD Guideline 401
	dermal	LD50 mg/kg	> 3000	Rabbit	Study report (1973)	other: OSHA Toxicity Screening Test
13189-00-9	Zinc methacrylate					
	oral	LD50 mg/kg	ca. 500	Rat	Study report (2008)	OECD Guideline 423
	inhalation (4 h) dust/mist	LC50 mg/l	> 5.32	Rat	Study report (2013)	OECD Guideline 436
38668-48-3	1,1'-(p-tolylimino)dipropan-2-ol					
	oral	LD50 mg/kg	> 25 - < 200	Rat	Study report (2001)	OECD Guideline 423
	dermal	LD50 mg/kg	> 2000	Rat	Study report (2012)	OECD Guideline 402
99-97-8	N,N-dimethyl-p-toluidine					
	oral	ATE mg/kg	100			
	dermal	ATE mg/kg	300			
	inhalation vapour	ATE	3 mg/l			
	inhalation dust/mist	ATE	0.5 mg/l			

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#### Irritation and corrosivity

Skin corrosion/irritation: Causes skin irritation. (On basis of test data)

Serious eye damage/eye irritation: Causes serious eye irritation. (On basis of test data)

#### Sensitising effects

May cause an allergic skin reaction. (methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate; reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight  $\leq$  700); Zinc methacrylate; 1,3-bis[12-hydroxy-octadecamide-N-methylene]-benzene; Octadecanoic acid, 12-hydroxy-, reaction products with ethylenediamine; Silicone acrylate)

#### 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; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate; methacrylic acid; 2-methylpropenoic 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.

#### 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

#### Endocrine disrupting properties

No information available.

#### Further information

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

## SECTION 12: Ecological information

### 12.1. Toxicity

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

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CAS No	Chemical name					
	Aquatic toxicity	Dose	[h]   [d]	Species	Source	Method
80-62-6	methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate					
	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
79-41-4	methacrylic acid; 2-methylpropenoic acid					
	Acute fish toxicity	LC50 85 mg/l	96 h	Oncorhynchus mykiss	REACH Registration Dossier	EPA OTS 797.1400
	Acute algae toxicity	ErC50 45 mg/l	72 h	Raphidocelis subcapitata	REACH Registration Dossier	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
52628-03-2	2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, phosphate					
	Acute fish toxicity	LC50 > 112 mg/l	96 h	Oncorhynchus mykiss	Study report (2013)	OECD Guideline 203
	Acute algae toxicity	ErC50 > 120 mg/l	72 h	Raphidocelis subcapitata	Study report (2013)	OECD Guideline 201
142-90-5	dodecyl methacrylate					
	Acute fish toxicity	LC50 > 10000 mg/l	96 h	Danio rerio	REACH Registration Dossier	OECD Guideline 203
	Acute algae toxicity	ErC50 > 0.01 mg/l	72 h	Desmodesmus subspicatus	REACH Registration Dossier	OECD Guideline 201

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	Crustacea toxicity	NOEC >= 0.00573 mg/l	21 d	Daphnia magna	REACH Registration Dossier	OECD Guideline 211
	Acute bacteria toxicity	EC50 mg/l ( ) > 10000	3 h	Activated sludge	REACH Registration Dossier	OECD Guideline 209
13189-00-9	Zinc methacrylate					
	Acute fish toxicity	LC50 mg/l > 2.1	96 h	Oncorhynchus mykiss	REACH Registration Dossier	OECD Guideline 203
	Acute algae toxicity	ErC50 mg/l ca. 0.56	72 h	Raphidocelis subcapitata	REACH Registration Dossier	OECD Guideline 201
	Acute crustacea toxicity	EC50 mg/l ca. 8.7	48 h	Daphnia magna	REACH Registration Dossier	OECD Guideline 202
38668-48-3	1,1'-(p-tolylimino)dipropan-2-ol					
	Acute fish toxicity	LC50 17 mg/l	96 h	Danio rerio	Study report (1984)	other: Guideline F.1.1. of UBA
	Acute algae toxicity	ErC50 245 mg/l	72 h	Desmodesmus subspicatus	Study report (2012)	OECD Guideline 201
	Acute crustacea toxicity	EC50 mg/l 28.8	48 h	Daphnia magna	Study report (1999)	OECD Guideline 202
100545-48-0	Octadecanoic acid, 12-hydroxy-, reaction products with ethylenediamine					
	Acute fish toxicity	LL50 mg/l > 10	96 h	Oncorhynchus mykiss	Study report (2013)	OECD Guideline 203
	Acute algae toxicity	ErC50 mg/l > 100	72 h	Raphidocelis subcapitata	Study report (2013)	EU Method C.3
	Acute crustacea toxicity	EL50 mg/l > 10	48 h	Daphnia magna	Study report (2013)	OECD Guideline 202
	Crustacea toxicity	NOEC mg/l >= 10	21 d	Daphnia magna	Study report (2018)	OECD Guideline 211
99-97-8	N,N-dimethyl-p-toluidine					
	Acute fish toxicity	LC50 mg/l 52,8	96 h	Pimephales promelas	REACH Registration Dossier	other: Standard test procedure ASTM, 198
	Acute algae toxicity	ErC50 mg/l 23,69	72 h	Raphidocelis subcapitata	REACH Registration Dossier	OECD Guideline 201
	Acute crustacea toxicity	EC50 mg/l 15,27	48 h	Daphnia magna	REACH Registration Dossier	other: Modeling database
	Acute bacteria toxicity	EC50 ( ) 100 mg/l	3 h	WoE 2. domestic activated sludge, WoE 3. Pseudomon	REACH Registration Dossier	other: as mentioned below

#### 12.2. Persistence and degradability

No data available

#### 12.3. Bioaccumulative potential

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No data available

#### Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
80-62-6	methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate	1,38
79-41-4	methacrylic acid; 2-methylpropenoic acid	0,93
52628-03-2	2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, phosphate	1 - < 2,72
142-90-5	dodecyl methacrylate	6.68
13189-00-9	Zinc methacrylate	< 0.3
38668-48-3	1,1'-(p-tolylimino)dipropan-2-ol	2.1
100545-48-0	Octadecanoic acid, 12-hydroxy-, reaction products with ethylenediamine	>= 5.86
99-97-8	N,N-dimethyl-p-toluidine	2,81

#### BCF

CAS No	Chemical name	BCF	Species	Source
142-90-5	dodecyl methacrylate	37	Danio rerio	REACH Registration D
100545-48-0	Octadecanoic acid, 12-hydroxy-, reaction products with ethylenediamine	56.23	not specified	Other company data (
99-97-8	N,N-dimethyl-p-toluidine	33	Fish	REACH Registration D

#### 12.4. Mobility in soil

No further relevant information 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

#### Further information

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

##### Disposal recommendations

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. 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



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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

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

### SECTION 14: Transport information

#### Land transport (ADR/RID)

**14.1. UN number or ID number:** UN 1133  
**14.2. UN proper shipping name:** ADHESIVES  
**14.3. Transport hazard class(es):** 3  
**14.4. Packing group:** II  
 Hazard label: 3



Classification code: F1  
 Special Provisions: 640D  
 Limited quantity: 5 L  
 Excepted quantity: E2  
 Transport category: 2  
 Hazard No: 33  
 Tunnel restriction code: D/E

#### Inland waterways transport (ADN)

**14.1. UN number or ID number:** UN 1133  
**14.2. UN proper shipping name:** Adhesives  
**14.3. Transport hazard class(es):** 3  
**14.4. Packing group:** II  
 Hazard label: 3



Classification code: F1  
 Special Provisions: 640D  
 Limited quantity: 5 L  
 Excepted quantity: E2

#### Marine transport (IMDG)

**14.1. UN number or ID number:** UN 1133  
**14.2. UN proper shipping name:** ADHESIVES  
**14.3. Transport hazard class(es):** 3  
**14.4. Packing group:** II  
 Hazard label: 3



Special Provisions: -  
 Limited quantity: 5 L

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Excepted quantity: E2  
EmS: F-E, S-D

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

**14.1. UN number or ID number:** UN 1133  
**14.2. UN proper shipping name:** ADHESIVES  
**14.3. Transport hazard class(es):** 3  
**14.4. Packing group:** II  
Hazard label: 3



Special Provisions: A3  
Limited quantity Passenger: 1 L  
Passenger LQ: Y341  
Excepted quantity: E2  
IATA-packing instructions - Passenger: 353  
IATA-max. quantity - Passenger: 5 L  
IATA-packing instructions - Cargo: 364  
IATA-max. quantity - Cargo: 60 L

#### 14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

#### 14.6. Special precautions for user

Warning : Organic peroxides !

#### 14.7. Maritime transport in bulk according to IMO instruments

not applicable

### 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 40, Entry 75

Directive 2010/75/EU on industrial emissions: 80.46 % (828.738 g/l)

Information according to Directive 2012/18/EU (SEVESO III): P5c FLAMMABLE LIQUIDS

##### 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. Observe employment restrictions for women of child-bearing age.

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

#### 15.2. Chemical safety assessment

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

### SECTION 16: Other information

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#### Abbreviations and acronyms

Flam. Liq: Flammable liquid

Acute Tox: Acute toxicity

Skin Corr: Skin corrosion

Skin Irrit: Skin irritation

Eye Dam: Eye damage

Eye Irrit: Eye irritation

Skin Sens: Skin sensitisation

STOT SE: Specific target organ toxicity - single exposure

STOT RE: Specific target organ toxicity - repeated exposure

Aquatic Acute: Acute aquatic hazard

Aquatic Chronic: Chronic aquatic hazard

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

For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations).

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

Classification	Classification procedure
Flam. Liq. 2; H225	On basis of test data
Skin Irrit. 2; H315	On basis of test data
Eye Irrit. 2; H319	On basis of test data
Skin Sens. 1; H317	Calculation method
STOT SE 3; H335	Calculation method

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

H225	Highly flammable liquid and vapour.
H300	Fatal if swallowed.
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.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
H413	May cause long lasting harmful effects to aquatic life.

#### Further Information

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

#### Identified uses

No	Short title	LCS	SU	PC	PROC	ERC	AC	TF	Specification
1	Adhesives and sealants	PW, C	6a, 6b, 12, 18, 19	1	11, 19	4, 8a, 8c, 8d	4e, 4g, 5c, 6g, 7c, 7g, 8, 10, 11, 13	110	K+D

LCS: Life cycle stages

SU: Sectors of use

PC: Product categories

PROC: Process categories

ERC: Environmental release categories

AC: Article categories

TF: Technical functions

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