

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### Kisling - 1673-1 - component A 1675-1

Revision date: 16.04.2024

Product code: 1673-1

Page 1 of 19

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

### 1.1. Product identifier

Kisling - 1673-1 - component A 1675-1

UFI: 2FAG-A1X2-D009-6SHD

### 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

Acute Tox. 4; H332  
Skin Irrit. 2; H315  
Eye Dam. 1; H318  
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

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### Kisling - 1673-1 - component A 1675-1

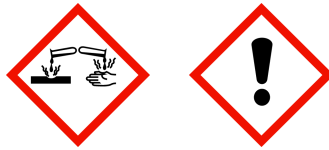
Revision date: 16.04.2024

Product code: 1673-1

Page 2 of 19

#### Hazard components for labelling

Benzyl methacrylate  
methacrylic acid; 2-methylpropenoic acid  
Propylidynetrimethanol, ethoxylated, esters with acrylic acid  
Bis(methacryloyloxyethyl) hydrogen phosphate  
Reaction mass of 2,2'-[[4-methylphenyl]imino]bisethanol and Ethanol 2-[[2-(2-hydroxyethoxy)ethyl]  
(4-methylphenyl)amino]-  
2-hydroxyethyl methacrylate  
tributylamine

**Signal word:** Danger**Pictograms:**

#### Hazard statements

H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H318 Causes serious eye damage.  
H332 Harmful if inhaled.  
H335 May cause respiratory irritation.

#### Precautionary statements

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
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.  
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

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

**Signal word:** Danger**Pictograms:**

#### Hazard statements

H317-H318

#### Precautionary statements

P261-P280-P305+P351+P338-P310-P333+P313

#### 2.3. Other hazards

No data available

### SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

##### Chemical characterization

Mixture of substances listed below with nonhazardous components.

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### Kisling - 1673-1 - component A 1675-1

Revision date: 16.04.2024

Product code: 1673-1

Page 3 of 19

#### Relevant ingredients

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (Regulation (EC) No 1272/2008)			
2495-37-6	Benzyl methacrylate			50 - < 100 %
	219-674-4			
	Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1, STOT SE 3; H315 H319 H317 H335			
25852-47-5	Polyethylene glycol dimethacrylate			5 - < 15 %
	Aquatic Chronic 3; H412			
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			
28961-43-5	Propylidynetrimethanol, ethoxylated, esters with acrylic acid			1 - < 5 %
	500-066-5		01-2119489900-30	
	Eye Irrit. 2, Skin Sens. 1B, Aquatic Chronic 3; H319 H317 H412			
32435-46-4	Bis(methacryloyloxyethyl) hydrogen phosphate			1 - < 5 %
	251-040-2			
	Eye Dam. 1, Skin Sens. 1B; H318 H317			
	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			
91-66-7	N,N-diethylaniline			0.1 - < 1 %
	202-088-8	612-054-00-8	01-2119943758-22	
	Acute Tox. 3, Acute Tox. 3, Acute Tox. 3, STOT RE 2, Aquatic Chronic 2; H331 H311 H301 H373 H411			
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			
102-82-9	tributylamine			0.1 - < 1 %
	203-058-7			
	Acute Tox. 1, Acute Tox. 2, Acute Tox. 4, Skin Irrit. 2, STOT RE 1; H330 H310 H302 H315 H372			

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

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### Kisling - 1673-1 - component A 1675-1

Revision date: 16.04.2024

Product code: 1673-1

Page 4 of 19

#### Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
		Specific Conc. Limits, M-factors and ATE	
2495-37-6	219-674-4	Benzyl methacrylate	50 - < 100 %
		dermal: LD50 = > 2000 mg/kg; oral: LD50 = 3980 mg/kg	
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	
28961-43-5	500-066-5	Propylidynetrimethanol, ethoxylated, esters with acrylic acid	1 - < 5 %
		dermal: LD50 = > 13200 mg/kg; oral: LD50 = > 2000 mg/kg	
	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 %
		dermal: LD50 = > 2000 mg/kg; oral: LD50 = 619 mg/kg	
91-66-7	202-088-8	N,N-diethylaniline	0.1 - < 1 %
		inhalation: ATE = 3 mg/l (vapours); inhalation: ATE = 0.5 mg/l (dusts or mists); dermal: LD50 = > 400 mg/kg; oral: ATE = 100 mg/kg	
868-77-9	212-782-2	2-hydroxyethyl methacrylate	0.1 - < 1 %
		dermal: LD50 = >3000 mg/kg; oral: LD50 = 5050 mg/kg	
102-82-9	203-058-7	tributylamine	0.1 - < 1 %
		inhalation: LC50 = 0,5 mg/l (vapours); inhalation: ATE = 0.005 mg/l (dusts or mists); dermal: LD50 = 195 mg/kg; oral: LD50 = 420 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

##### 5.1. Extinguishing media

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### Kisling - 1673-1 - component A 1675-1

Revision date: 16.04.2024

Product code: 1673-1

Page 5 of 19

#### **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**

##### **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.

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### Kisling - 1673-1 - component A 1675-1

Revision date: 16.04.2024

Product code: 1673-1

Page 6 of 19

#### 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

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### Kisling - 1673-1 - component A 1675-1

Revision date: 16.04.2024

Product code: 1673-1

Page 7 of 19

#### DNEL/DMEL values

CAS No	Name of agent	Exposure route	Effect	Value
2495-37-6	Benzyl methacrylate			
Worker DNEL, long-term		inhalation	systemic	24,2 mg/m <sup>3</sup>
Worker DNEL, long-term		dermal	systemic	6,94 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	7,2 mg/m <sup>3</sup>
Consumer DNEL, long-term		dermal	systemic	4,17 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	4,17 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
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
	Reaction mass of 2,2'-[(4-methylphenyl)imino]bisethanol and Ethanol 2-[[2-(2-hydroxyethoxy)ethyl] (4-methylphenyl)amino]-			
Worker DNEL, long-term		inhalation	systemic	9,8 mg/m <sup>3</sup>
Worker DNEL, long-term		dermal	systemic	1,4 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	1,74 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
91-66-7	N,N-diethylaniline			
Worker DNEL, long-term		dermal	systemic	7 mg/kg bw/day
Consumer DNEL, long-term		dermal	systemic	2,5 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	0,0167 mg/kg bw/day
102-82-9	tributylamine			
Worker DNEL, long-term		inhalation	systemic	5,3 mg/m <sup>3</sup>
Worker DNEL, acute		inhalation	systemic	10,6 mg/m <sup>3</sup>
Worker DNEL, long-term		inhalation	local	15,2 mg/m <sup>3</sup>

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### Kisling - 1673-1 - component A 1675-1

Revision date: 16.04.2024

Product code: 1673-1

Page 8 of 19

Worker DNEL, acute	inhalation	local	15,2 mg/m <sup>3</sup>
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## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### Kisling - 1673-1 - component A 1675-1

Revision date: 16.04.2024

Product code: 1673-1

Page 9 of 19

#### PNEC values

CAS No	Name of agent	Value
Environmental compartment		
2495-37-6	Benzyl methacrylate	
Freshwater		0,01 mg/l
Freshwater (intermittent releases)		0,005 mg/l
Marine water		0,001 mg/l
Freshwater sediment		0,423 mg/kg
Marine sediment		0,042 mg/kg
Micro-organisms in sewage treatment plants (STP)		1,33 mg/l
Soil		0,079 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
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
	Reaction mass of 2,2'-[(4-methylphenyl)imino]bisethanol and Ethanol 2-[[2-(2-hydroxyethoxy)ethyl] (4-methylphenyl)amino]-	
Freshwater		0,048 mg/l
Freshwater (intermittent releases)		0,48 mg/l
Marine water		0,005 mg/l
Freshwater sediment		1,2 mg/kg
Marine sediment		0,12 mg/kg
Micro-organisms in sewage treatment plants (STP)		10 mg/l
Soil		0,21 mg/kg
91-66-7	N,N-diethylaniline	
Freshwater		0,00936 mg/l
Freshwater (intermittent releases)		0,0742 mg/l
Marine water		0,000936 mg/l
Freshwater sediment		2,52 mg/kg
Marine sediment		0,252 mg/kg
Micro-organisms in sewage treatment plants (STP)		0,018 mg/l

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### Kisling - 1673-1 - component A 1675-1

Revision date: 16.04.2024

Product code: 1673-1

Page 10 of 19

Soil	0,498 mg/kg
102-82-9	tributylamine
Freshwater	0,008 mg/l
Freshwater (intermittent releases)	0,08 mg/l
Marine water	0,0008 mg/l
Freshwater sediment	35,85 mg/kg
Marine sediment	3,59 mg/kg
Micro-organisms in sewage treatment plants (STP)	100 mg/l
Soil	7,17 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:	white
Odour:	characteristic
Odour threshold:	not determined

	Test method
Melting point/freezing point:	not determined
Boiling point or initial boiling point and boiling range:	not determined
Flammability:	not determined not applicable
Lower explosion limits:	not determined

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### Kisling - 1673-1 - component A 1675-1

Revision date: 16.04.2024

Product code: 1673-1

Page 11 of 19

Upper explosion limits:	not determined
Flash point:	>90 °C
Auto-ignition temperature:	not determined
Decomposition temperature:	not determined
pH-Value:	not determined
Viscosity / kinematic:	not determined
Water solubility:	practically insoluble
Solubility in other solvents	
not determined	
Partition coefficient n-octanol/water:	not determined
Vapour pressure:	not determined
Density:	not determined
Relative density:	not determined
Relative vapour density:	not determined
Particle characteristics:	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

### **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**

Harmful if inhaled.

##### **ATEmix calculated**

ATE (oral) 14987 mg/kg; ATE (dermal) 8347 mg/kg; ATE (inhalation vapour) 96.75 mg/l; ATE (inhalation dust/mist) 1.885 mg/l

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### Kisling - 1673-1 - component A 1675-1

Revision date: 16.04.2024

Product code: 1673-1

Page 12 of 19

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
2495-37-6	Benzyl methacrylate				
	oral	LD50 3980 mg/kg	Rat	Study report (1984)	OECD Guideline 401
	dermal	LD50 > 2000 mg/kg	Rat	Study report (2011)	EU Method B.3
79-41-4	methacrylic acid; 2-methylpropenoic acid				
	oral	LD50 1320 mg/kg	Rat	Study report (1977)	OECD Guideline 401
	dermal	LD50 500 mg/kg	Rabbit	Pre-supplier/manufac turer	
	inhalation (4 h) vapour	LC50 7,1 mg/l	Rat	Pre-supplier/manufac turer	OECD 403
	inhalation dust/mist	ATE 1.5 mg/l			
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 perfo
	Reaction mass of 2,2'-[(4-methylphenyl)imino]bisethanol and Ethanol 2-[[2-(2-hydroxyethoxy)ethyl] (4-methylphenyl)amino]-				
	oral	LD50 619 mg/kg	Rat	Study report (1996)	OECD Guideline 401
	dermal	LD50 > 2000 mg/kg	Rat	Study report (2013)	OECD Guideline 402
91-66-7	N,N-diethylaniline				
	oral	ATE 100 mg/kg			
	dermal	LD50 > 400 mg/kg	Rabbit	ChemIDplus (2018)	other: As mentioned below
	inhalation vapour	ATE 3 mg/l			
	inhalation dust/mist	ATE 0.5 mg/l			
868-77-9	2-hydroxyethyl methacrylate				
	oral	LD50 5050 mg/kg	Rat	Pre-supplier/manufac turer	
	dermal	LD50 >3000 mg/kg	Rabbit	Pre-supplier/manufac turer	
102-82-9	tributylamine				
	oral	LD50 420 mg/kg	Rat	Publication (1974)	Method: acute oral toxicity test Screeni
	dermal	LD50 195 mg/kg	Rabbit	Publication (1974)	Method: acute dermal toxicity Screening
	inhalation (4 h) vapour	LC50 0,5 mg/l	Rat	Study report (1987)	OECD Guideline 403
	inhalation dust/mist	ATE 0.005 mg/l			

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### Kisling - 1673-1 - component A 1675-1

Revision date: 16.04.2024

Product code: 1673-1

Page 13 of 19

#### **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. (Benzyl methacrylate; Propylidynetrimethanol, ethoxylated, esters with acrylic acid; Bis(methacryloyloxyethyl) hydrogen phosphate; Reaction mass of 2,2'-[[4-methylphenyl]imino]bisethanol and Ethanol 2-[[2-(2-hydroxyethoxy)ethyl](4-methylphenyl)amino]-; 2-hydroxyethyl methacrylate)

#### **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. (Benzyl methacrylate; 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**

#### **Other information**

No data 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.

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### Kisling - 1673-1 - component A 1675-1

Revision date: 16.04.2024

Product code: 1673-1

Page 14 of 19

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h]   [d]	Species	Source	Method
2495-37-6	Benzyl methacrylate					
	Acute fish toxicity	LC50 mg/l	4,67	96 h	Pimephales promelas	REACH Registration Dossier OECD Guideline 203
	Acute algae toxicity	ErC50 mg/l	2,28	72 h	Desmodesmus subspicatus	REACH Registration Dossier OECD Guideline 201
	Crustacea toxicity	NOEC mg/l	4,21	21 d	Daphnia magna	REACH Registration Dossier OECD Guideline 211
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 mg/l	> 130	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 mg/l ( )	13500	3 h	Activated sludge	Publication (2008) ISO 8192
28961-43-5	Propylidynetrimethanol, ethoxylated, esters with acrylic acid					
	Acute fish toxicity	LC50 mg/l	1,95	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 mg/l	70,7	48 h	Daphnia magna	REACH Registration Dossier OECD Guideline 202
	Reaction mass of 2,2'-[(4-methylphenyl)imino]bisethanol and Ethanol 2-[[2-(2-hydroxyethoxy)ethyl](4-methylphenyl)amino]-					
	Acute fish toxicity	LC50 mg/l	> 100	96 h	Cyprinus carpio	REACH Registration Dossier OECD Guideline 203
	Acute algae toxicity	ErC50 mg/l	> 100	72 h	Raphidocelis subcapitata	REACH Registration Dossier OECD Guideline 201
	Acute crustacea toxicity	EC50	48 mg/l	48 h	Daphnia magna	REACH Registration Dossier OECD Guideline 202

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### Kisling - 1673-1 - component A 1675-1

Revision date: 16.04.2024

Product code: 1673-1

Page 15 of 19

	Acute bacteria toxicity	EC50 mg/l ( )	> 1000	3 h	activated sludge of a predominantly domestic sewage	REACH Registration Dossier	OECD Guideline 209
91-66-7	N,N-diethylaniline						
	Acute fish toxicity	LC50 mg/l	42,25	96 h	Danio rerio	REACH Registration Dossier	OECD Guideline 203
	Acute algae toxicity	ErC50 mg/l	7,42	72 h	Desmodesmus subspicatus	REACH Registration Dossier	OECD Guideline 201
	Acute crustacea toxicity	EC50 mg/l	35,2	48 h	Daphnia magna	REACH Registration Dossier	OECD Guideline 202
	Crustacea toxicity	NOEC mg/l	0,936	21 d	Daphnia magna	REACH Registration Dossier	other: modelling data
868-77-9	2-hydroxyethyl methacrylate						
	Acute fish toxicity	LC50	227 mg/l	96 h	Pimephales promelas	Pre-supplier/man ufacturer	
	Acute crustacea toxicity	EC50 mg/l	>380	48 h	Daphnia magna (Big water flea)	Pre-supplier/man ufacturer	
102-82-9	tributylamine						
	Acute fish toxicity	LC50 mg/l	16,3	96 h	Oryzias latipes	Study report (2000)	other: Testing Methods for Industrial Wa
	Acute algae toxicity	ErC50 mg/l	10,1	72 h	Raphidocelis subcapitata	REACH Registration Dossier	OECD Guideline 201
	Acute crustacea toxicity	EC50	8 mg/l	48 h	Daphnia magna (Big water flea)	Pre-supplier/man ufacturer	OECD 202

#### 12.2. Persistence and degradability

No data available

CAS No	Chemical name			
	Method	Value	d	Source
	Evaluation			
102-82-9	tributylamine			
	OECD 301B	88 %	28	Pre-supplier/man ufacturer
	Readily biodegradable (according to OECD criteria).			

#### 12.3. Bioaccumulative potential

No data available

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### Kisling - 1673-1 - component A 1675-1

Revision date: 16.04.2024

Product code: 1673-1

Page 16 of 19

#### Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
2495-37-6	Benzyl methacrylate	3,1
79-41-4	methacrylic acid; 2-methylpropenoic acid	0,93
28961-43-5	Propylidynetrimethanol, ethoxylated, esters with acrylic acid	2,89
	Reaction mass of 2,2'-(4-methylphenyl)imino]bisethanol and Ethanol 2-[[2-(2-hydroxyethoxy)ethyl](4-methylphenyl)amino]-	2
91-66-7	N,N-diethylaniline	3,904
868-77-9	2-hydroxyethyl methacrylate	0,47
102-82-9	tributylamine	3,338

#### BCF

CAS No	Chemical name	BCF	Species	Source
91-66-7	N,N-diethylaniline	>= 44 - = 17	Cyprinus carpio	REACH Registration D
102-82-9	tributylamine	7,3	Cyprinus carpio	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

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



## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### Kisling - 1673-1 - component A 1675-1

Revision date: 16.04.2024

Product code: 1673-1

Page 17 of 19

#### 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)

<b>14.1. UN number or ID number:</b>	No dangerous good in sense of this transport regulation.
<b>14.2. UN proper shipping name:</b>	No dangerous good in sense of this transport regulation.
<b>14.3. Transport hazard class(es):</b>	No dangerous good in sense of this transport regulation.
<b>14.4. Packing group:</b>	No dangerous good in sense of this transport regulation.

#### Inland waterways transport (ADN)

<b>14.1. UN number or ID number:</b>	No dangerous good in sense of this transport regulation.
<b>14.2. UN proper shipping name:</b>	No dangerous good in sense of this transport regulation.
<b>14.3. Transport hazard class(es):</b>	No dangerous good in sense of this transport regulation.
<b>14.4. Packing group:</b>	No dangerous good in sense of this transport regulation.

#### Marine transport (IMDG)

<b>14.1. UN number or ID number:</b>	No dangerous good in sense of this transport regulation.
<b>14.2. UN proper shipping name:</b>	No dangerous good in sense of this transport regulation.
<b>14.3. Transport hazard class(es):</b>	No dangerous good in sense of this transport regulation.
<b>14.4. Packing group:</b>	No dangerous good in sense of this transport regulation.

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

<b>14.1. UN number or ID number:</b>	No dangerous good in sense of this transport regulation.
<b>14.2. UN proper shipping name:</b>	No dangerous good in sense of this transport regulation.
<b>14.3. Transport hazard class(es):</b>	No dangerous good in sense of this transport regulation.
<b>14.4. Packing group:</b>	No dangerous good in sense of this transport regulation.

#### 14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

#### 14.6. Special precautions for user

No information available.

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

not applicable

#### Other applicable information

1673-1+1664

UN 3527 = POLYESTER RESIN KIT, solid base material, Class 4.1, III

### 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: 7,261 %

##### National regulatory information

Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).

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

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### Kisling - 1673-1 - component A 1675-1

Revision date: 16.04.2024

Product code: 1673-1

Page 18 of 19

#### 15.2. Chemical safety assessment

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

#### **SECTION 16: Other information**

##### **Abbreviations and acronyms**

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 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).

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### Kisling - 1673-1 - component A 1675-1

Revision date: 16.04.2024

Product code: 1673-1

Page 19 of 19

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

Classification	Classification procedure
Acute Tox. 4; H332	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

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

H301	Toxic if swallowed.
H302	Harmful if swallowed.
H310	Fatal in contact with skin.
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.
H330	Fatal if inhaled.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H372	Causes damage to organs through prolonged or repeated exposure.
H373	May cause damage to organs through prolonged or repeated exposure.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

#### 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.

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