

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

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

Revision date: 23.05.2023

Product code: 1673-1

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

### 1.1. Product identifier

Kisling - 1673-1 - component A 1675-1

### 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

Company name:	Kisling AG	
Street:	Motorenstrasse 102	
Place:	CH-8620 Wetzikon	
Telephone:	+41 58 272 0 272	
e-mail:	info@kisling.com	
Contact person:	Isabel Winter	Telephone: +49 7941 92054087
e-mail:	info@kisling.com	
Internet:	www.kisling.com	

### 1.4. Emergency telephone

24 hr. emergency phone number +1 872 5888271 (KAR)

#### number:

Medicines &amp; 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

#### Hazard components for labelling

Benzyl methacrylate

methacrylic acid; 2-methylpropenoic acid

Propylidynetrimethanol, ethoxylated, esters with acrylic acid (&lt;6.5 mol EO)

N,N-bis-(2-hydroxyethyl)-para-toluidine

2-hydroxyethyl methacrylate

tributylamine

#### Signal word:

Danger

#### Pictograms:



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#### 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/protective clothing/eye protection/face protection/hearing 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.   |
| P362+P364      | Take off contaminated clothing and wash it before reuse.   |

#### 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-P362+P364

### SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

##### Chemical characterization

Mixture of substances listed below with nonhazardous components.

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#### Hazardous components

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			
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 (<6.5 mol EO)			1 - < 5 %
	500-066-5		01-2119489900-30	
	Eye Irrit. 2, Skin Sens. 1B; H319 H317			
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			
103671-44-9	N,N-bis-(2-hydroxyethyl)-para-toluidine			0.1 - < 1 %
			01-2119979579-10	
	Acute Tox. 4, Skin Irrit. 2, Eye Dam. 1, Skin Sens. 1, Aquatic Chronic 3; H302 H315 H318 H317 H412			
868-77-9	2-hydroxyethyl methacrylate			0.1 - < 1 %
	212-782-2	607-124-00-X		
	Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1; H315 H319 H317			
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			
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.

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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	
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 STOT SE 3; H335: >= 1 - 100	
28961-43-5	500-066-5	Propylidynetrimethanol, ethoxylated, esters with acrylic acid (<6.5 mol EO)	1 - < 5 %
		dermal: LD50 = > 13200 mg/kg; oral: LD50 = > 2000 mg/kg	
52628-03-2	258-053-2	2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, phosphate	1 - < 5 %
		oral: LD50 = > 2000 mg/kg	
103671-44-9		N,N-bis-(2-hydroxyethyl)-para-toluidine	0.1 - < 1 %
		dermal: LD50 = >2000 mg/kg; oral: LD50 = 619 mg/kg	
868-77-9	212-782-2	2-hydroxyethyl methacrylate	0.1 - < 1 %
		dermal: LD50 = > 5000 mg/kg; oral: LD50 = 5564 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	
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

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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

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#### DNEL/DMEL values

CAS No	Name of agent			
DNEL type		Exposure route	Effect	Value
2495-37-6	Benzyl methacrylate			
Worker DNEL, long-term		inhalation	systemic	24,2 mg/m³
Worker DNEL, long-term		dermal	systemic	6,94 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	7,2 mg/m³
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/m³
Worker DNEL, long-term		inhalation	local	44 mg/m³
Worker DNEL, long-term		dermal	systemic	4,25 mg/kg bw/day
Worker DNEL, long-term		dermal	local	0,38 mg/cm²
Consumer DNEL, long-term		inhalation	systemic	11,7 mg/m³
Consumer DNEL, long-term		inhalation	local	8,8 mg/m³
Consumer DNEL, long-term		dermal	systemic	5,35 mg/kg bw/day
Consumer DNEL, long-term		dermal	local	0,23 mg/cm²
Consumer DNEL, long-term		oral	systemic	5,35 mg/kg bw/day
28961-43-5	Propylidynetrimethanol, ethoxylated, esters with acrylic acid (<6.5 mol EO)			
Worker DNEL, long-term		inhalation	systemic	37 mg/m³
Worker DNEL, long-term		dermal	systemic	10,5 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/m³
Consumer DNEL, long-term		inhalation	systemic	1,74 mg/m³
868-77-9	2-hydroxyethyl methacrylate			
Worker DNEL, long-term		inhalation	systemic	4,9 mg/m³
Worker DNEL, long-term		dermal	systemic	1,39 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	1,45 mg/m³
Consumer DNEL, long-term		dermal	systemic	0,83 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	0,83 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/m³
Worker DNEL, acute		inhalation	systemic	10,6 mg/m³
Worker DNEL, long-term		inhalation	local	15,2 mg/m³
Worker DNEL, acute		inhalation	local	15,2 mg/m³

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#### PNEC values

CAS No	Name of agent	
Environmental compartment		Value
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 (<6.5 mol EO)	
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
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
868-77-9	2-hydroxyethyl methacrylate	
Freshwater		0,482 mg/l
Freshwater (intermittent releases)		1 mg/l
Marine water		0,048 mg/l
Freshwater sediment		3,79 mg/kg
Marine sediment		3,79 mg/kg
Micro-organisms in sewage treatment plants (STP)		10 mg/l
Soil		0,476 mg/kg



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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
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.

##### 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

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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:	not determined	
Flammability:	not determined	not applicable
Lower explosion limits:	not determined	
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	

#### 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.

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## 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) 14986,7 mg/kg; ATE (dermal) 8347,1 mg/kg; ATE (inhalation vapour) 96,75 mg/l; ATE (inhalation dust/mist) 1,885 mg/l

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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/manufacturer	
	inhalation (4 h) vapour	LC50 7,1 mg/l	Rat	Pre-supplier/manufacturer	OECD 403
	inhalation dust/mist	ATE 1,5 mg/l			
28961-43-5	Propylidynetrimethanol, ethoxylated, esters with acrylic acid (<6.5 mol EO)				
	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
52628-03-2	2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, phosphate				
	oral	LD50 > 2000 mg/kg	Rat	Study report (2013)	OECD Guideline 425
103671-44-9	N,N-bis-(2-hydroxyethyl)-para-toluidine				
	oral	LD50 619 mg/kg		Pre-supplier/manufacturer	OECD 401
	dermal	LD50 >2000 mg/kg		Pre-supplier/manufacturer	OECD 402
868-77-9	2-hydroxyethyl methacrylate				
	oral	LD50 5564 mg/kg	Rat	Study report (1977)	other: Appraisal of the safety of chemical b
	dermal	LD50 > 5000 mg/kg	Rabbit	Study report (1982)	The test substance, as received, was tested
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			
102-82-9	tributylamine				
	oral	LD50 420 mg/kg	Rat	Publication (1974)	Method: acute oral toxicity test Screening
	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			

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#### Irritation and corrosivity

Causes skin irritation.

Causes serious eye damage.

#### Sensitising effects

May cause an allergic skin reaction. (Benzyl methacrylate; Propylidynetrimethanol, ethoxylated, esters with acrylic acid (<6.5 mol EO); N,N-bis-(2-hydroxyethyl)-para-toluidine; 2-hydroxyethyl methacrylate)

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

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

##### 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
2495-37-6	Benzyl methacrylate					
	Acute fish toxicity	LC50 4,67 mg/l	96 h	Pimephales promelas	REACH Registration Dossier	OECD Guideline 203
	Acute algae toxicity	ErC50 2,28 mg/l	72 h	Desmodesmus subspicatus	REACH Registration Dossier	OECD Guideline 201
	Crustacea toxicity	NOEC 4,21 mg/l	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 > 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 (<6.5 mol EO)					
	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
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
103671-44-9	N,N-bis-(2-hydroxyethyl)-para-toluidine					
	Acute fish toxicity	LC50 >100 mg/l	96 h		Pre-supplier/manuf acturer	OECD 203
	Acute crustacea toxicity	EC50 48 mg/l	48 h		Pre-supplier/manuf acturer	OECD 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
91-66-7	N,N-diethylaniline					

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	Acute fish toxicity	LC50 mg/l	42,25	96 h	Danio rerio	REACH Registration Dossier	OECD Guideline 203
	Acute algae toxicity	ErC50	7,42 mg/l	72 h	Desmodesmus subspicatus	REACH Registration Dossier	OECD Guideline 201
	Acute crustacea toxicity	EC50	35,2 mg/l	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
102-82-9	tributylamine						
	Acute fish toxicity	LC50	16,3 mg/l	96 h	Oryzias latipes	Study report (2000)	other: Testing Methods for Industrial Wa
	Acute algae toxicity	ErC50	10,1 mg/l	72 h	Raphidocelis subcapitata	REACH Registration Dossier	OECD Guideline 201

#### 12.2. Persistence and degradability

No data available

#### 12.3. Bioaccumulative potential

No data available

#### 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 (<6.5 mol EO)	2,89
52628-03-2	2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, phosphate	1 - < 2,72
103671-44-9	N,N-bis-(2-hydroxyethyl)-para-toluidine	2,17
868-77-9	2-hydroxyethyl methacrylate	0,42
91-66-7	N,N-diethylaniline	3,904
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

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#### 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

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

#### Inland waterways transport (ADN)

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

#### Marine transport (IMDG)

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

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

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

#### 14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS:	No
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#### 14.6. Special precautions for user



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No information available.

#### **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

2010/75/EU (VOC): 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

#### **15.2. Chemical safety assessment**

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

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

#### **Abbreviations and acronyms**

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

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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).

#### 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.

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#### 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

PC: Product categories

ERC: Environmental release categories

TF: Technical functions

SU: Sectors of use

PROC: Process categories

AC: Article categories

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

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

### 1.1. Product identifier

Kisling - 1664 - 1665B, 1670B, 1675-1B, 1680-1B

### 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

Company name: Kisling AG  
Street: Motorenstrasse 102  
Place: CH-8620 Wetzikon  
Telephone: +41 58 272 0 272  
e-mail: info@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

Self-react. E; H242  
Eye Irrit. 2; H319  
Skin Sens. 1; H317  
Aquatic Acute 1; H400  
Aquatic Chronic 1; H410

Full text of hazard statements: see SECTION 16.

### 2.2. Label elements

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

#### Hazard components for labelling

dibenzoyl peroxide; benzoyl peroxide  
bis-[4-(2,3-epoxipropoxy)phenyl]propane

Signal word: Warning

#### Pictograms:



#### Hazard statements

H242 Heating may cause a fire.  
H317 May cause an allergic skin reaction.  
H319 Causes serious eye irritation.  
H410 Very toxic to aquatic life with long lasting effects.

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#### Precautionary statements

- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.  
No smoking.
- P234 Keep only in original packaging.
- P273 Avoid release to the environment.
- P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
- P391 Collect spillage.
- P403 Store in a well-ventilated place.

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

Signal word: Warning

Pictograms:



#### Hazard statements

H317

#### Precautionary statements

P280

#### 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.

##### Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (Regulation (EC) No 1272/2008)			
94-36-0	dibenzoyl peroxide; benzoyl peroxide			50 - < 100 %
	202-327-6	617-008-00-0	01-2119511472-50	
	Org. Perox. B, Eye Irrit. 2, Skin Sens. 1, Aquatic Acute 1, Aquatic Chronic 1; H241 H319 H317 H400 H410			
1675-54-3	bis-[4-(2,3-epoxipropoxy)phenyl]propane			1 - < 5 %
	216-823-5	603-073-00-2		
	Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1, Aquatic Chronic 2; H315 H319 H317 H411			

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	
94-36-0	202-327-6	dibenzoyl peroxide; benzoyl peroxide	50 - < 100 %
		oral: LD50 = >5000 mg/kg Aquatic Acute 1; H400: M=10 Aquatic Chronic 1; H410: M=10	
1675-54-3	216-823-5	bis-[4-(2,3-epoxipropoxy)phenyl]propane	1 - < 5 %
		dermal: LD50 = 23000 mg/kg; oral: LD50 = 19800 mg/kg Skin Irrit. 2; H315: >= 5 - 100 Eye Irrit. 2; H319: >= 5 - 100	

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## 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

#### 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.

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#### **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 exhaust 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**

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#### DNEL/DMEL values

CAS No	Name of agent			
DNEL type		Exposure route	Effect	Value
94-36-0	dibenzoyl peroxide; benzoyl peroxide			
Worker DNEL, long-term		inhalation	systemic	39 mg/m³
Worker DNEL, long-term		dermal	systemic	13,3 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	2 mg/kg bw/day
1675-54-3	bis-[4-(2,3-epoxipropoxy)phenyl]propane			
Worker DNEL, long-term		inhalation	systemic	4,93 mg/m³
Worker DNEL, long-term		dermal	systemic	0,75 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	0,87 mg/m³
Consumer DNEL, long-term		dermal	systemic	0,0893 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	0,5 mg/kg bw/day
Consumer DNEL, acute		oral	systemic	0,5 mg/kg bw/day

#### PNEC values

CAS No	Name of agent	
Environmental compartment	Value	
94-36-0	dibenzoyl peroxide; benzoyl peroxide	
Freshwater	0,00002 mg/l	
Freshwater (intermittent releases)	0,000602 mg/l	
Marine water	0,000002 mg/l	
Freshwater sediment	0,013 mg/kg	
Marine sediment	0,001 mg/kg	
Micro-organisms in sewage treatment plants (STP)	0,35 mg/l	
Soil	0,003 mg/kg	
1675-54-3	bis-[4-(2,3-epoxipropoxy)phenyl]propane	
Freshwater	0,006 mg/l	
Freshwater (intermittent releases)	0,018 mg/l	
Marine water	0,001 mg/l	
Freshwater sediment	0,341 mg/kg	
Marine sediment	0,034 mg/kg	
Secondary poisoning	11 mg/kg	
Micro-organisms in sewage treatment plants (STP)	10 mg/l	
Soil	0,065 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



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#### 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.

#### 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:	Paste
Colour:	blue
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	
Upper explosion limits:	not determined	
Flash point:	not determined	
Auto-ignition temperature:	not determined	
Decomposition temperature:	not determined	
pH-Value:	not determined	
Viscosity / kinematic:	not determined	
Water solubility:	practically insoluble	
Solubility in other solvents		
not determined		
Partition coefficient n-octanol/water:	not determined	
Vapour pressure:	not determined	
Density (at 20 °C):	1,15 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.

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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

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

#### ATEmix calculated

ATE (inhalation dust/mist) 2127,576 mg/l

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
94-36-0	dibenzoyl peroxide; benzoyl peroxide				
	oral	LD50 >5000 mg/kg	Rat	Pre-supplier/manufacturer	
1675-54-3	bis-[4-(2,3-epoxipropoxy)phenyl]propane				
	oral	LD50 19800 mg/kg	Rabbit	Publication (1958)	Rabbits were orally gavaged with test ma
	dermal	LD50 23000 mg/kg	Rabbit	Pre-supplier/manufacturer	

#### Irritation and corrosivity

Causes serious eye irritation.

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

#### Sensitising effects

May cause an allergic skin reaction. (dibenzoyl peroxide; benzoyl peroxide; bis-[4-(2,3-epoxipropoxy)phenyl]propane)

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

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

#### STOT-single exposure

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

#### STOT-repeated exposure

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

#### Aspiration hazard

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

#### 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

Very toxic to aquatic life.

Very toxic to aquatic life with long lasting effects.

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h]   [d]	Species	Source	Method
94-36-0	dibenzoyl peroxide; benzoyl peroxide					
	Acute fish toxicity	LC50 0,06 mg/l	96 h	Oncorhynchus mykiss	Study report (2010)	EU Method C.1
	Acute algae toxicity	ErC50 0,071 mg/l	72 h	Raphidocelis subcapitata	Study report (2010)	EU Method C.3
	Acute crustacea toxicity	EC50 0,11 mg/l	48 h	Daphnia magna	Study report (2010)	EU Method C.2
	Acute bacteria toxicity	(EC50 35 mg/l)	0,5 h	activated sludge of a predominantly domestic sewage	Study report (1990)	OECD Guideline 209
1675-54-3	bis-[4-(2,3-epoxipropoxy)phenyl]propane					
	Acute fish toxicity	LC50 3,6 mg/l	96 h	Oncorhynchus mykiss	Study report (1982)	OECD Guideline 203
	Acute algae toxicity	ErC50 > 100 mg/l	72 h	Raphidocelis subcapitata	Study report (2007)	OECD Guideline 201
	Acute crustacea toxicity	EC50 2,8 mg/l	48 h	Daphnia magna	REACH Registration Dossier	OECD Guideline 202
	Crustacea toxicity	NOEC 0,3 mg/l	21 d	Daphnia magna	REACH Registration Dossier	OECD Guideline 211

#### 12.2. Persistence and degradability

No data available

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#### 12.3. Bioaccumulative potential

No data available

#### Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
94-36-0	dibenzoyl peroxide; benzoyl peroxide	3,2
1675-54-3	bis-[4-(2,3-epoxipropoxy)phenyl]propane	>= 2,64

#### BCF

CAS No	Chemical name	BCF	Species	Source
1675-54-3	bis-[4-(2,3-epoxipropoxy)phenyl]propane	31		Study report (2010)

#### 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

##### Contaminated packaging

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

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#### SECTION 14: Transport information

##### Land transport (ADR/RID)

**14.1. UN number or ID number:** UN 3108  
**14.2. UN proper shipping name:** ORGANIC PEROXIDE TYPE E, SOLID  
**14.3. Transport hazard class(es):** 5.2  
**14.4. Packing group:** -  
Hazard label: 5.2



Classification code: P1  
Special Provisions: 122 274  
Limited quantity: 500 g  
Excepted quantity: E0  
Transport category: 2  
Tunnel restriction code: D

##### Inland waterways transport (ADN)

**14.1. UN number or ID number:** UN 3108  
**14.2. UN proper shipping name:** ORGANIC PEROXIDE TYPE E, SOLID  
**14.3. Transport hazard class(es):** 5.2  
**14.4. Packing group:** -  
Hazard label: 5.2



Classification code: P1  
Special Provisions: 122 274  
Limited quantity: 500 g  
Excepted quantity: E0

##### Marine transport (IMDG)

**14.1. UN number or ID number:** UN 3108  
**14.2. UN proper shipping name:** ORGANIC PEROXIDE TYPE E, SOLID  
**14.3. Transport hazard class(es):** 5.2  
**14.4. Packing group:** -  
Hazard label: 5.2



Special Provisions: 122 274  
Limited quantity: 500 g  
Excepted quantity: E0  
EmS: F-J, S-R

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

**14.1. UN number or ID number:** UN 3108  
**14.2. UN proper shipping name:** ORGANIC PEROXIDE TYPE E, SOLID  
**14.3. Transport hazard class(es):** 5.2

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#### 14.4. Packing group:

Hazard label:

-

5.2



Special Provisions:

A20 A802

Limited quantity Passenger:

Forbidden

Passenger LQ:

Forbidden

Excepted quantity:

E0

IATA-packing instructions - Passenger:

570

IATA-max. quantity - Passenger:

10 kg

IATA-packing instructions - Cargo:

570

IATA-max. quantity - Cargo:

25 kg

#### 14.5. Environmental hazards

ENVIRONMENTALLY  
HAZARDOUS:

Yes



Danger releasing substance:

(DIBENZOYL PEROXIDE)

#### 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 75

##### 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

#### 15.2. Chemical safety assessment

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

### SECTION 16: Other information

#### Abbreviations and acronyms

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

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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).

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

#### [CLP]

Classification	Classification procedure
Self-react. E; H242	On basis of test data
Eye Irrit. 2; H319	Calculation method
Skin Sens. 1; H317	Calculation method
Aquatic Acute 1; H400	Calculation method
Aquatic Chronic 1; H410	Calculation method

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

H241 Heating may cause a fire or explosion.  
 H242 Heating may cause a fire.  
 H315 Causes skin irritation.  
 H317 May cause an allergic skin reaction.  
 H319 Causes serious eye irritation.  
 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.

#### 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

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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

PC: Product categories

ERC: Environmental release categories

TF: Technical functions

SU: Sectors of use

PROC: Process categories

AC: Article categories

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