

## Safety Data Sheet

according to UK REACH Regulation

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Revision date: 01.06.2022

VBA 5M69

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

#### 1.1. Product identifier

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#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

##### Use of the substance/mixture

Adhesives, sealants

##### Uses advised against

Any non-intended use.

#### 1.3. Details of the supplier of the safety data sheet

Company name:	Meusburger Georg GmbH & Co KG	
Street:	Kesselstraße 42	
Place:	A-6960 Wolfurt	
Telephone:	+43 5574 6706-0	Telefax: +43 5574 6706-12
e-mail:	office@meusburger.com	
Internet:	www.meusburger.com	
Responsible Department:	Dr. Gans-Eichler Chemieberatung GmbH Otto-Hahn-Str. 36 D-48161 Münster	e-mail: info@tge-consult.de Tel.: +49(0)2534 6441185 www.tge-consult.de

#### 1.4. Emergency telephone number:

Poison Information Center Mainz, Germany, Tel: +49(0)6131/19240

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### GB CLP Regulation

Skin Irrit. 2; H315  
Eye Irrit. 2; H319  
Skin Sens. 1; H317  
STOT SE 3; H335  
Aquatic Chronic 3; H412

Full text of hazard statements: see SECTION 16.

#### 2.2. Label elements

##### GB CLP Regulation

##### Hazard components for labelling

benzyl methacrylate  
2,2'-ethylenedioxydiethyl dimethacrylate  
methacrylic acid, monoester with propane-1,2-diol  
alpha,alpha-dimethylbenzyl hydroperoxide; cumene hydroperoxide

**Signal word:** Warning

**Pictograms:**



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### Hazard statements

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H412	Harmful to aquatic life with long lasting effects.

### Precautionary statements

P280	Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352	IF ON SKIN: Wash with plenty of water.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

### 2.3. Other hazards

For information or further instructions, see also section 11 or 12.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

#### Hazardous components

CAS No EC No REACH No Index No	Chemical name GHS Classification	Quantity
2495-37-6 219-674-4	benzyl methacrylate Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1, STOT SE 3; H315 H319 H317 H335	35 - < 40 %
39420-45-6	Poly(propylene glycol) methacrylate Aquatic Chronic 3; H412	20 - < 25 %
109-16-0 203-652-6 01-2119969287-21	2,2'-ethylenedioxydiethyl dimethacrylate Skin Sens. 1B; H317	10 - < 12 %
27813-02-1 248-666-3 01-2119490226-37	methacrylic acid, monoester with propane-1,2-diol Eye Irrit. 2, Skin Sens. 1; H319 H317	1 - < 3 %

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80-15-9 201-254-7 01-2119475796-19 617-002-00-8	alpha,alpha-dimethylbenzyl hydroperoxide; cumene hydroperoxide  Org. Perox. E, Acute Tox. 3, Acute Tox. 4, Acute Tox. 4, Skin Corr. 1B, STOT RE 2, Aquatic Chronic 2; H242 H331 H312 H302 H314 H373 H411	1 - < 3 %
98-82-8 202-704-5 601-024-00-X	cumene  Flam. Liq. 3, STOT SE 3, Asp. Tox. 1, Aquatic Chronic 2; H226 H335 H304 H411	0.2 - < 0.3 %
26741-53-7 247-952-5	3,9-bis(2,4-di-tert-butylphenoxy) -2,4,8,10-tetraoxa-3,9-diphosphaspiro[5.5]undecane  Aquatic Chronic 1; H410	0.2 - < 0.3 %
609-72-3 210-199-8 612-056-00-9	N,N-dimethyl-o-toluidine  Acute Tox. 3, Acute Tox. 3, Acute Tox. 3, STOT RE 2, Aquatic Chronic 3; H331 H311 H301 H373 H412	0.1 - < 0.2 %
114-83-0 204-055-3	2'-Phenylacetohydrazide  Acute Tox. 3; H301	0.1 - < 0.2 %
80-62-6 201-297-1 607-035-00-6	methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate  Flam. Liq. 2, Skin Irrit. 2, Skin Sens. 1, STOT SE 3; H225 H315 H317 H335	< 0.1 %
110-82-7 203-806-2 601-017-00-1	cyclohexane  Flam. Liq. 2, Skin Irrit. 2, STOT SE 3, Asp. Tox. 1, Aquatic Acute 1, Aquatic Chronic 1; H225 H315 H336 H304 H400 H410	< 0.1 %

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	
2495-37-6	219-674-4	benzyl methacrylate	35 - < 40 %
		dermal: LD50 = >2000 mg/kg; oral: LD50 = 4820 mg/kg	
109-16-0	203-652-6	2,2'-ethylenedioxydiethyl dimethacrylate	10 - < 12 %
		dermal: LD50 = >2000 mg/kg; oral: LD50 = 10837 mg/kg	

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27813-02-1	248-666-3	methacrylic acid, monoester with propane-1,2-diol	1 - < 3 %
		dermal: LD50 = >5000 mg/kg; oral: LD50 = >2000 mg/kg	
80-15-9	201-254-7	alpha,alpha-dimethylbenzyl hydroperoxide; cumene hydroperoxide	1 - < 3 %
		inhalation: LC50 = (200) mg/l (vapours); inhalation: ATE = 0,5 mg/l (dusts or mists); dermal: LD50 = (500) mg/kg; oral: LD50 = 382 mg/kg Skin Corr. 1B; H314: >= 10 - 100 Skin Irrit. 2; H315: >= 3 - < 10 Eye Dam. 1; H318: >= 3 - < 10 Eye Irrit. 2; H319: >= 1 - < 3 STOT SE 3; H335: >= 1 - 100	
98-82-8	202-704-5	cumene	0.2 - < 0.3 %
		inhalation: LC50 = 39 mg/l (vapours); dermal: LD50 = 12300 mg/kg	
26741-53-7	247-952-5	3,9-bis(2,4-di-tert-butylphenoxy)-2,4,8,10-tetraoxa-3,9-diphosphaspiro[5.5]undecane	0.2 - < 0.3 %
		M chron.; H410: M=1	
609-72-3	210-199-8	N,N-dimethyl-o-toluidine	0.1 - < 0.2 %
		inhalation: ATE = 3 mg/l (vapours); inhalation: ATE = 0,5 mg/l (dusts or mists); dermal: ATE = 300 mg/kg; oral: ATE = 100 mg/kg	
114-83-0	204-055-3	2'-Phenylacetohydrazide	0.1 - < 0.2 %
		oral: LD50 = 270 mg/kg	
80-62-6	201-297-1	methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate	< 0.1 %
		inhalation: LC50 = 29,8 mg/l (dusts or mists); dermal: LD50 = > 5000 mg/kg	

### Further Information

Product does not contain listed SVHC substances > 0,1 % according to Regulation (EC) No. 1907/2006 Article 59 (REACH)

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### General information

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

#### After inhalation

If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Seek medical advice immediately. Apply cortisone spray at early stage.

#### After contact with skin

Gently wash with plenty of soap and water. In case of skin irritation, seek medical treatment.

#### After contact with eyes

Rinse cautiously with water for several minutes. In case of troubles or persistent symptoms, consult an ophthalmologist.

#### After ingestion

Rinse mouth thoroughly with water. Let water be drunken in little sips (dilution effect). Do NOT induce vomiting. In all cases of doubt, or when symptoms persist, seek medical advice.

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

No information available.

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

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

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### Suitable extinguishing media

Carbon dioxide (CO<sub>2</sub>). Dry extinguishing powder. alcohol resistant foam. Atomized water.

### Unsuitable extinguishing media

High power water jet.

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

Can be released in case of fire: Can be released in case of fire: Carbon monoxide Carbon dioxide (CO<sub>2</sub>). Nitrogen oxides (NO<sub>x</sub>).

### 5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

### Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. Co-ordinate fire-fighting measures to the fire surroundings.

## SECTION 6: Accidental release measures

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

Provide adequate ventilation.  
Do not breathe vapour/aerosol. Avoid contact with skin, eyes and clothes.  
Wear personal protection equipment. (refer to chapter 8)

### 6.2. Environmental precautions

Do not allow to enter into surface water or drains. Prevent spread over a wide area (e.g. by containment or oil barriers). Cover drains.

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

Take up mechanically.  
Treat the recovered material as prescribed in the section on waste disposal.  
Clear contaminated areas thoroughly. Clean contaminated objects and areas thoroughly observing environmental regulations.

### 6.4. Reference to other sections

Disposal: see section 13

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

#### Advice on safe handling

Provide adequate ventilation.  
Wear suitable protective clothing. ( See section 8. )  
Wear breathing apparatus if exposed to vapours/dusts/aerosols.

#### Advice on protection against fire and explosion

Usual measures for fire prevention.

#### Further information on handling

Avoid contact with skin, eyes and clothes. Do not breathe vapour/aerosol.  
General protection and hygiene measures: refer to chapter 8

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

#### Requirements for storage rooms and vessels

Keep container tightly closed in a cool, well-ventilated place.

#### Hints on joint storage

Do not store together with: Explosives. Oxidizing solids. Oxidizing liquids. Radioactive substances. Infectious

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substances.

### Further information on storage conditions

Protect against: frost. UV-radiation/sunlight. heat. Cold Humidity  
storage temperature: 25 °C max.

### 7.3. Specific end use(s)

See section 1.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Exposure limits (EH40)

CAS No	Substance	ppm	mg/m <sup>3</sup>	fibres/ml	Category	Origin
98-82-8	Cumene	25	125		TWA (8 h)	WEL
		50	250		STEL (15 min)	WEL
110-82-7	Cyclohexane	100	350		TWA (8 h)	WEL
		300	1050		STEL (15 min)	WEL
80-62-6	Methyl methacrylate	50	208		TWA (8 h)	WEL
		100	416		STEL (15 min)	WEL

#### DNEL/DMEL values

CAS No	Substance	Exposure route	Effect	Value
109-16-0	2,2'-ethylenedioxydiethyl dimethacrylate			
Worker DNEL, long-term		dermal	systemic	13,9 mg/kg bw/day
Worker DNEL, long-term		inhalation	systemic	96,9 mg/m <sup>3</sup>
Consumer DNEL, long-term		oral	systemic	8,33 mg/kg bw/day
Consumer DNEL, long-term		dermal	systemic	8,33 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	28,9 mg/m <sup>3</sup>
27813-02-1	methacrylic acid, monoester with propane-1,2-diol			
Worker DNEL, long-term		inhalation	systemic	14,7 mg/m <sup>3</sup>
Worker DNEL, long-term		dermal	systemic	4,2 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	2,5 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	8,8 mg/m <sup>3</sup>
Consumer DNEL, long-term		dermal	systemic	2,5 mg/kg bw/day
80-15-9	alpha,alpha-dimethylbenzyl hydroperoxide; cumene hydroperoxide			
Worker DNEL, long-term		inhalation	systemic	6 mg/m <sup>3</sup>

#### PNEC values

CAS No	Substance	Value
	Environmental compartment	

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109-16-0	2,2'-ethylenedioxydiethyl dimethacrylate	
Freshwater		0,164 mg/l
Freshwater (intermittent releases)		0,164 mg/l
Marine water		0,0164 mg/l
Freshwater sediment		1,85 mg/kg
Marine sediment		0,185 mg/kg
Micro-organisms in sewage treatment plants (STP)		10 mg/kg
Soil		0,274 mg/kg
27813-02-1	methacrylic acid, monoester with propane-1,2-diol	
Freshwater		0,904 mg/l
Freshwater (intermittent releases)		0,972 mg/l
Marine water		0,904 mg/l
Marine water (intermittent releases)		0,972 mg/l
Freshwater sediment		6,28 mg/kg
Marine sediment		6,28 mg/kg
Micro-organisms in sewage treatment plants (STP)		10 mg/kg
Soil		0,727 mg/kg
80-15-9	alpha,alpha-dimethylbenzyl hydroperoxide; cumene hydroperoxide	
Freshwater		0.003 mg/l
Marine water		0.003 mg/l
Freshwater sediment		0.023 mg/kg
Marine sediment		0.002 mg/kg
Micro-organisms in sewage treatment plants (STP)		0.35 mg/l
Soil		0.003 mg/kg

### 8.2. Exposure controls



#### Appropriate engineering controls

If handled uncovered, arrangements with local exhaust ventilation should be used if possible. If local exhaust ventilation is not possible or not sufficient, the entire working area should be ventilated by technical means.

#### Protective and hygiene measures

Always close containers tightly after the removal of product. Do not eat, drink, smoke or sneeze at the workplace. Wash hands before breaks and after work. Take off contaminated clothing. Used working clothes should not be worn outside the work area. Street clothing should be stored separately from work clothing.

#### Eye/face protection

Wear safety glasses; chemical goggles (if splashing is possible). BS/EN 166

#### Hand protection

Wear suitable gloves.  
Suitable material:

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FKM (fluororubber). - Thickness of glove material: 0,4 mm  
Breakthrough time  $\geq$  8 h  
Butyl rubber. - Thickness of glove material: 0,5 mm  
Breakthrough time  $\geq$  8 h  
CR (polychloroprenes, Chloroprene rubber). - Thickness of glove material: 0,5 mm  
Breakthrough time  $\geq$  8 h  
NBR (Nitrile rubber). - Thickness of glove material: 0,35 mm  
Breakthrough time  $\geq$  8 h  
PVC (Polyvinyl chloride). - Thickness of glove material: 0,5 mm  
Breakthrough time  $\geq$  8 h

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.

The selected protective gloves have to satisfy the specifications of EU Directive EC/2016/425 and the standard EN ISO 374 derived from it.

Check leak tightness/impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well.

### Skin protection

Suitable protective clothing: Lab apron.

Minimum standard for preventive measures while handling with working materials are specified in the TRGS 500 (D).

### Respiratory protection

With correct and proper use, and under normal conditions, breathing protection is not required.

Respiratory protection necessary at:

- Exceeding exposure limit values
- Insufficient ventilation and aerosol or mist formation

Suitable respiratory protective equipment: particulates filter device (DIN EN 143). Type: P1-3

The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used.

### Environmental exposure controls

Do not allow uncontrolled discharge of product into the environment.

## SECTION 9: Physical and chemical properties

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

Physical state:	viscous
Colour:	red
Odour:	characteristic
pH-Value:	not determined

#### Changes in the physical state

Melting point/freezing point:	not determined
Boiling point or initial boiling point and boiling range:	not determined
Sublimation point:	not determined
Softening point:	not determined
Pour point:	not determined
Flash point:	>100 °C
Sustaining combustion:	Not sustaining combustion



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### Explosive properties

none

Lower explosion limits: not determined

Upper explosion limits: not determined

Auto-ignition temperature: not determined

### Self-ignition temperature

Gas: not determined

Decomposition temperature: not determined

### Oxidizing properties

none

Vapour pressure: not determined

Density: not determined

Water solubility: practically insoluble

### Solubility in other solvents

not determined

Partition coefficient n-octanol/water: SECTION 12: Ecological information

Viscosity / dynamic: 3000 mPa·s

Viscosity / kinematic: not determined

Flow time: not determined

Relative vapour density: not determined

Evaporation rate: not determined

Solvent separation test: not determined

Solvent content: not determined

### 9.2. Other information

Solid content: not determined

No information available.

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Hazardous polymerisation: Protect against direct sunlight. Can polymerise exothermically if heated, exposed to air, sunlight or by addition of free radical initiators.

Avoid complete exclusion of air.

### 10.2. Chemical stability

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

### 10.3. Possibility of hazardous reactions

No information available.

### 10.4. Conditions to avoid

Protect against: Light. UV-radiation/sunlight. heat. (> 60°C) Cold. Moisture.

### 10.5. Incompatible materials

Materials to avoid: Oxidizing agents, strong. Alkalis (alkalis). Amines. Isocyanates.

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### 10.6. Hazardous decomposition products

Can be released in case of fire: Carbon monoxide Carbon dioxide (CO<sub>2</sub>). Nitrogen oxides (NO<sub>x</sub>).

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### Toxicokinetics, metabolism and distribution

No data available.

#### Acute toxicity

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

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
2495-37-6	benzyl methacrylate				
	oral	LD50 mg/kg	4820	Rat	ECHA Dossier
	dermal	LD50 mg/kg	>2000	Rat	ECHA Dossier
109-16-0	2,2'-ethylenedioxydiethyl dimethacrylate				
	oral	LD50 mg/kg	10837	Rat	Int.Jour.o.Tox.2005
	dermal	LD50 mg/kg	>2000	Mouse	ECHA Dossier
27813-02-1	methacrylic acid, monoester with propane-1,2-diol				
	oral	LD50 mg/kg	>2000	Rat	ECHA dossier
	dermal	LD50 mg/kg	>5000	Rabbit.	ECHA dossier
80-15-9	alpha,alpha-dimethylbenzyl hydroperoxide; cumene hydroperoxide				
	oral	LD50 mg/kg	382	Rat	IUCLID
	dermal	LD50 mg/kg	(500)	Rat	RTECS
	inhalation (4 h) vapour	LC50 mg/l	(200)	Mouse.	IUCLID
	inhalation dust/mist	ATE	0,5 mg/l		
98-82-8	cumene				
	dermal	LD50 mg/kg	12300	Rabbit	IUCLID
	inhalation (4 h) vapour	LC50	39 mg/l	Rat	RTECS
609-72-3	N,N-dimethyl-o-toluidine				
	oral	ATE mg/kg	100		
	dermal	ATE mg/kg	300		
	inhalation vapour	ATE	3 mg/l		
	inhalation dust/mist	ATE	0,5 mg/l		

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114-83-0	2'-Phenylacetohydrazide					
	oral	LD50 mg/kg	270	Mouse.	RTECS	
80-62-6	methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate					
	dermal	LD50 mg/kg	> 5000	Rabbit	ECHA Dossier	
	inhalation dust/mist	LC50	29,8 mg/l	Rat	ECHA Dossier	

### Irritation and corrosivity

Causes skin irritation.

Causes serious eye irritation.

### Sensitising effects

May cause an allergic skin reaction. (benzyl methacrylate; 2,2'-ethylenedioxydiethyl dimethacrylate; methacrylic acid, monoester with propane-1,2-diol; methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate)

sensitizing.

People who suffer from skin sensitization problems, asthma, allergies, chronic or recurring respiratory illnesses should not be deployed in any process using this preparation.

### Carcinogenic/mutagenic/toxic effects for reproduction

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

benzyl methacrylate:

In-vitro mutagenicity: No experimental indications of mutagenicity in-vitro exist. Literature information: ECHA Dossier; Reproductive toxicity: (OECD 422; Rat) NOAEL = 500 mg/kg/day; Literature information: ECHA Dossier; Developmental toxicity/teratogenicity: (OECD 422; Rat) NOAEL = 500 mg/kg/day; Literature information: ECHA Dossier

methacrylic acid, monoester with propane-1,2-diol:

In-vitro mutagenicity: in vitro mammalian chromosome aberration test = positive. Literature information: Mutation Research 517 (1-2): 187-198; OECD Guideline 471 (Bacterial Reverse Mutation Assay) = negative. Literature information: ECHA Dossier; OECD Guideline 472 (Genetic Toxicology: Escherichia coli, Reverse Mutation Assay) = negative. Literature information: ECHA Dossier; OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test) = negative. Literature information: ECHA Dossier; In-vivo mutagenicity: OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test) = negative. Literature information: ECHA Dossier; Carcinogenicity: (Rat) NOAEL = >2,05 mg/l; Literature information: ECHA Dossier; Developmental toxicity/teratogenicity (Rat) NOAEL = 50 mg/kg(bw)/day; Literature information: ECHA Dossier

alpha,alpha-dimethylbenzyl hydroperoxide; cumene hydroperoxide:

In-vitro mutagenicity: OECD Guideline 471 (Bacterial Reverse Mutation Assay) = positive. Literature information: ECHA Dossier; No experimental indications of mutagenicity in-vivo exist. Literature information: ECHA Dossier

cumene:

In-vitro mutagenicity: OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test) = positive. Literature information: ECHA Dossier; OECD Guideline 471 (Bacterial Reverse Mutation Assay) = positive. Literature information: ECHA Dossier; OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test) = positive. Literature information: ECHA Dossier; OECD Guideline 482 (Genetic Toxicology: DNA Damage and Repair, Unscheduled DNA Synthesis in Mammalian Cells In Vitro) = positive. Literature information: ECHA Dossier; In-vivo mutagenicity: OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test) = positive. Literature information: ECHA Dossier; OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test) = positive. Literature information: ECHA Dossier; Developmental toxicity/teratogenicity (Rabbit.) NOAEL = 2300 ppm;; Literature information: ECHA Dossier

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### STOT-single exposure

May cause respiratory irritation. (benzyl methacrylate; alpha,alpha-dimethylbenzyl hydroperoxide; cumene hydroperoxide)

### STOT-repeated exposure

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

methacrylic acid, monoester with propane-1,2-diol:

Subchronic oral toxicity (90d, Rat) NOAEL = 300 mg/kg(bw)/day; Literature information: ECHA Dossier  
alpha,alpha-dimethylbenzyl hydroperoxide; cumene hydroperoxide:

Subchronic inhalative toxicity (Rat.) NOAEC = 31 mg/m<sup>3</sup>; Literature information: ECHA Dossier

### Aspiration hazard

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

### Specific effects in experiment on an animal

No data available.

## SECTION 12: Ecological information

### 12.1. Toxicity

The product has not been tested.

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	ECHA Dossier
	Acute algae toxicity	ErC50 mg/l	2,28	72 h	Desmodesmus subspicatus	ECHA Dossier
	Crustacea toxicity	NOEC mg/l	0,291	21 d	Daphnia magna	ECHA Dossier
109-16-0	2,2'-ethylenedioxydiethyl dimethacrylate					
	Acute fish toxicity	LC50 mg/l	16,4	96 h	Danio rerio	ECHA Dossier
	Acute algae toxicity	ErC50 mg/l	>100	72 h	Pseudokirchnerella subcapitata	ECHA Dossier
	Crustacea toxicity	NOEC mg/l	>100	21 d	Daphnia magna	ECHA Dossier
27813-02-1	methacrylic acid, monoester with propane-1,2-diol					
	Acute algae toxicity	ErC50 mg/l	>97,2	72 h	Pseudokirchnerella subcapitata	ECHA dossier
	Acute crustacea toxicity	EC50 mg/l	>143	48 h	Daphnia magna	ECHA dossier
80-15-9	alpha,alpha-dimethylbenzyl hydroperoxide; cumene hydroperoxide					
	Acute fish toxicity	LC50	3,9 mg/l	96 h	Oncorhynchus mykiss	ECHA dossier OECD 203
	Acute algae toxicity	ErC50	3,1 mg/l	72 h	Desmodesmus subspicatus	ECHA dossier OECD 201
	Acute crustacea toxicity	EC50 mg/l	18,84	48 h	Daphnia magna	ECHA dossier OECD 202
98-82-8	cumene					
	Acute fish toxicity	LC50	2,7 mg/l	96 h	Leuciscus idus	

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	Acute algae toxicity	ErC50	2,6 mg/l	72 h	Selenastrum capricornutum		
80-62-6	methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate						
	Acute fish toxicity	LC50	79 mg/l	96 h	Oncorhynchus mykiss	ECHA Dossier	
	Acute algae toxicity	ErC50	>110 mg/l	72 h	Pseudokirchnerella subcapitata	ECHA Dossier	
	Acute crustacea toxicity	EC50	69 mg/l	48 h	Daphnia magna	ECHA Dossier	

### 12.2. Persistence and degradability

The product has not been tested.

CAS No	Chemical name	Method	Value	d	Source
		Evaluation			
2495-37-6	benzyl methacrylate				
	OECD 301B / ISO 9439 / EWG 92/69 Anhang V, C.4-C		74%	28	ECHA Dossier
	Easily biodegradable (concerning to the criteria of the OECD)				
109-16-0	2,2'-ethylenedioxydiethyl dimethacrylate				
	OECD 301B/ ISO 9439/ EEC 92/69/V, C.4-C		85%	28	ECHA Dossier
	Readily biodegradable (according to OECD criteria).				
27813-02-1	methacrylic acid, monoester with propane-1,2-diol				
	OECD 301C / ISO 9408 / EWG 92/69 Anhang V, C.4-F		>81%	28	ECHA dossier
	Easily biodegradable (concerning to the criteria of the OECD)				
80-15-9	alpha, alpha-dimethylbenzyl hydroperoxide; cumene hydroperoxide				
	OECD 301B / ISO 9439 / EWG 92/69 Anhang V, C.4-C		3%	28	ECHA Dossier
	Not easily bio-degradable (according to OECD-criteria).				
80-62-6	methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate				
	OECD 301C / ISO 9408 / EWG 92/69 Anhang V, C.4-F		94%	14	ECHA Dossier
	Easily biodegradable (concerning to the criteria of the OECD)				

### 12.3. Bioaccumulative potential

No indication of bioaccumulation potential.

#### Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
27813-02-1	methacrylic acid, monoester with propane-1,2-diol	0,97
80-15-9	alpha, alpha-dimethylbenzyl hydroperoxide; cumene hydroperoxide	2,16
98-82-8	cumene	3,66
80-62-6	methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate	1,32

### 12.4. Mobility in soil

No data available.

### 12.5. Results of PBT and vPvB assessment

The aforementioned statement applies to substances contained in the product with a minimum content of 0.1 %.

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### **12.6. Other adverse effects**

No data available.

### **Further information**

Do not allow to enter into surface water or drains.

## SECTION 13: Disposal considerations

### **13.1. Waste treatment methods**

#### **Disposal recommendations**

Observe in addition any national regulations! Consult the local waste disposal expert about waste disposal.

Non-contaminated packages may be recycled.

According to (EWC) European Waste Catalogue, allocation of waste identity numbers/waste descriptions must be carried out in a specific way for every industry and process.

Control report for waste code/ waste marking according to (EWC) European Waste Catalogue:

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

080409 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU of adhesives and sealants (including waterproofing products); waste adhesives and sealants containing organic solvents or other hazardous substances; hazardous waste

#### **List of Wastes Code - used product**

080409 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU of adhesives and sealants (including waterproofing products); waste adhesives and sealants containing organic solvents or other hazardous substances; hazardous waste

#### **List of Wastes Code - contaminated packaging**

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by hazardous substances; hazardous waste

#### **Contaminated packaging**

Handle contaminated packages in the same way as the substance itself.

## SECTION 14: Transport information

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

<b>14.1. UN 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:</b>	No dangerous good in sense of this transport regulation.
<b>14.2. UN proper shipping name:</b>	Not restricted
<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)**

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<b><u>14.1. UN 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:</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

### **14.6. Special precautions for user**

Refer to section 6-8

### **14.7. Transport in bulk according to Annex II of Marpol and the IBC Code**

not relevant

## 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 57, Entry 75

2010/75/EU (VOC): No information available.

2004/42/EC (VOC): No information available.

Information according to 2012/18/EU (SEVESO III): Not subject to 2012/18/EU (SEVESO III)

#### **Additional information**

Safety Data Sheet according to UK-REACH Regulation

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

UK REACH Appendix XVII, No (mixture): 3

#### **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**

For the following substances of this mixture a chemical safety assessment has been carried out:

2,2'-ethylenedioxydiethyl dimethacrylate

methacrylic acid, monoester with propane-1,2-diol

alpha,alpha-dimethylbenzyl hydroperoxide; cumene hydroperoxide

## SECTION 16: Other information

### **Changes**

Rev 1,00; 01.06.2022, Initial release

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### Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

AGW: Arbeitsplatzgrenzwert

CAS: Chemical Abstracts Service

CLP: Classification, Labelling and Packaging of substances and mixtures

DNEL: Derived No Effect Level

d: day(s)

EINECS: European INventory of Existing Commercial chemical Substances

ELINCS: European List of Notified Chemical Substances

ECHA: European Chemicals Agency

EWC: European Waste Catalogue

IARC: INTERNATIONAL AGENCY FOR RESEARCH ON CANCER

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organization

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

GefStoffV: Gefahrstoffverordnung (Ordinance on Hazardous Substances, Germany)

h: hour

LOAEL: Lowest observed adverse effect level

LOAEC: Lowest observed adverse effect concentration

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

NOAEL: No observed adverse effect level

NOAEC: No observed adverse effect concentration

NLP: No-Longer Polymers

N/A: not applicable

OECD: Organisation for Economic Co-operation and Development

PNEC: predicted no effect concentration

PBT: Persistent bioaccumulative toxic

RID: Regulation Concerning the International Transport of Dangerous Goods by Rail

REACH: Registration, Evaluation, Authorisation of Chemicals

SVHC: substance of very high concern

TRGS: Technische Regeln für Gefahrstoffe

UN: United Nations

VOC: Volatile Organic Compounds

### Classification for mixtures and used evaluation method according to GB CLP Regulation

Classification	Classification procedure
Skin Irrit. 2; H315	Calculation method
Eye Irrit. 2; H319	Calculation method
Skin Sens. 1; H317	Calculation method
STOT SE 3; H335	Calculation method
Aquatic Chronic 3; H412	Calculation method

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

H225 Highly flammable liquid and vapour.

H226 Flammable liquid and vapour.



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H242	Heating may cause a fire.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H311	Toxic in contact with skin.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

### Further Information

Classification according to GHS [UK CLP] - Classification procedure:

Health hazards: Calculation method.

Environmental hazards: Calculation method.

Physical hazards: On basis of test data and / or calculated and / or estimated.

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

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