

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

Print date: 15.04.2020

Revision date: 11.10.2017

VBA 5M77

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

#### 1.1. Product identifier

VBA 5M77

#### 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:	Meusbürger Georg GmbH & Co KG	
Street:	Kesselstraße 42	
Place:	A-6960 Wolfurt	
Telephone:	+43 5574 6706-0	Telefax: +43 5574 6706-12
e-mail:	office@meusbürger.com	
Internet:	www.meusbürger.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

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

Hazard categories:

Respiratory or skin sensitisation: Skin Sens. 1

Hazard Statements:

May cause an allergic skin reaction.

#### 2.2. Label elements

Regulation (EC) No. 1272/2008

##### Hazard components for labelling

2,2'-ethylenedioxydiethyl dimethacrylate

n-butyl methacrylate

methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate

**Signal word:** Warning**Pictograms:**

##### Hazard statements

H317

May cause an allergic skin reaction.

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

Print date: 15.04.2020

Revision date: 11.10.2017

VBA 5M77

### Precautionary statements

P280	Wear protective gloves.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P501	Dispose of contents/container to local/regional/national/international regulations.

### 2.3. Other hazards

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

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

#### Hazardous components

CAS No EC No REACH No Index No	Chemical name GHS Classification	Quantity
109-16-0 203-652-6 01-2119969287-21	2,2'-ethylenedioxydiethyl dimethacrylate Skin Sens. 1B; H317	65 - < 70 %
80-15-9 201-254-7 01-2119475796-19 617-002-00-8	cumene hydroperoxide, alpha,alpha-dimethylbenzyl 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	0.5 - < 1 %
97-88-1 202-615-1 607-033-00-5	n-butyl methacrylate Flam. Liq. 3, Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1, STOT SE 3; H226 H315 H319 H317 H335	0.2 - < 0.3 %
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	0.2 - < 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 %

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

## Safety Data Sheet

Page 3 of 14

according to Regulation (EC) No 1907/2006

Print date: 15.04.2020

Revision date: 11.10.2017

VBA 5M77

### 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

In case of accident by inhalation: remove casualty to fresh air and keep at rest. In case of respiratory tract irritation, consult a physician.

#### 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

#### 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: 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

See protective measures under point 7 and 8.

### 6.2. Environmental precautions

Discharge into the environment must be avoided.

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

Print date: 15.04.2020

Revision date: 11.10.2017

VBA 5M77

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

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).  
Treat the recovered material as prescribed in the section on waste disposal.  
Clean contaminated objects and areas thoroughly observing environmental regulations.

### 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

Wear suitable protective clothing. See section 8.

#### Advice on protection against fire and explosion

Usual measures for fire prevention.

#### Further information on handling

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 substances. Food and animal feedingstuff.

#### Further information on storage conditions

Keep the packing dry and well sealed to prevent contamination and absorption of humidity.  
Recommended storage temperature: 6-22°C  
Protect against: frost. UV-radiation/sunlight. heat. Humidity  
Do not store at temperatures over: 60°C  
Do not keep the container sealed.

### 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
84-66-2	Diethyl phthalate	-	5		TWA (8 h)	WEL
		-	10		STEL (15 min)	WEL
80-62-6	Methyl methacrylate	50	208		TWA (8 h)	WEL
		100	416		STEL (15 min)	WEL

#### DNEL/DMEL values

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

Print date: 15.04.2020

Revision date: 11.10.2017

VBA 5M77

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>
80-15-9	cumene hydroperoxide, alpha,alpha-dimethylbenzyl hydroperoxide			
Worker DNEL, long-term		inhalation	systemic	6 mg/m <sup>3</sup>

### PNEC values

CAS No	Substance	Environmental compartment	Value
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
80-15-9	cumene hydroperoxide, alpha,alpha-dimethylbenzyl 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

Technical measures and the application of suitable work processes have priority over personal protection equipment.

Provide adequate ventilation.

#### Protective and hygiene measures

Always close containers tightly after the removal of product. When using do not eat, drink, smoke, sniff. Wash

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

Print date: 15.04.2020

Revision date: 11.10.2017

VBA 5M77

hands before breaks and after work.

### Eye/face protection

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

### Hand protection

Wear suitable gloves.

Suitable material:

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

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 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

No special precautionary measures are necessary.

## SECTION 9: Physical and chemical properties

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

Physical state:	Paste
Colour:	yellow, opaque
Odour:	characteristic

pH-Value:	~7	<b>Test method</b>
-----------	----	--------------------

#### Changes in the physical state

Melting point:	not determined
Initial boiling point and boiling range:	not determined
Sublimation point:	not determined

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

Print date: 15.04.2020

Revision date: 11.10.2017

VBA 5M77

Softening point:	not determined
Pour point:	not determined
Flash point:	>100 °C
Sustaining combustion:	Not sustaining combustion

### Explosive properties

none

Lower explosion limits:	not determined
Upper explosion limits:	not determined
Ignition temperature:	>300 °C

### Auto-ignition temperature

Gas:	not determined
Decomposition temperature:	not determined

### Oxidizing properties

none

Vapour pressure: (at 25 °C)	< 1,5 hPa DIN 51616
--------------------------------	---------------------

Density (at 25 °C):	1,08 g/cm <sup>3</sup> DIN 51757
---------------------	----------------------------------

Water solubility:	slightly soluble
-------------------	------------------

### Solubility in other solvents

not determined

Partition coefficient:	not determined
------------------------	----------------

Viscosity / dynamic: (at 23 °C)	500000 mPa·s
------------------------------------	--------------

Viscosity / kinematic:	not determined
------------------------	----------------

Flow time:	not determined
------------	----------------

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
----------------	----------------

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Stabilization required by: stabiliser and Oxygen.

### 10.2. Chemical stability

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

Stabilization required by: Oxygen.

### 10.3. Possibility of hazardous reactions

Hazardous polymerisation: Protect against direct sunlight.

Can polymerise exothermically in the absence of stabilisers, particularly in acid conditions or if shelf life exceeded.

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

Print date: 15.04.2020

Revision date: 11.10.2017

VBA 5M77

Do not store at temperatures over: 60°C

Polymerization with heat evolution may occur in the presence of radical forming substances (e.g. peroxides), reducing substances, and/or heavy metal ions.

### 10.4. Conditions to avoid

Protect against: Light. UV-radiation/sunlight. heat. Cold moisture.

### 10.5. Incompatible materials

Materials to avoid: Oxidizing agents, strong. strong alkalis. Do not mix with peroxid-accelerators or reduction agents. Strong acid

### 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
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
80-15-9	cumene hydroperoxide, alpha,alpha-dimethylbenzyl 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 aerosol	ATE	0,5 mg/l		
97-88-1	n-butyl methacrylate				
	oral	LD50 mg/kg	>2000	Rat	ECHA Dossier
	dermal	LD50 mg/kg	>2000	Rabbit	ECHA Dossier
	inhalation (4 h) vapour	LC50	29 mg/l	Rat	ECHA Dossier
80-62-6	methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate				
	dermal	LD50 mg/kg	> 5000	Rabbit	ECHA Dossier
	inhalation aerosol	LC50	29,8 mg/l	Rat	ECHA Dossier
609-72-3	N,N-dimethyl-o-toluidine				
	oral	ATE mg/kg	100		



## Safety Data Sheet

according to Regulation (EC) No 1907/2006

Print date: 15.04.2020

Revision date: 11.10.2017

VBA 5M77

	dermal	ATE	300		
		mg/kg			
	inhalation vapour	ATE	3 mg/l		
	inhalation aerosol	ATE	0,5 mg/l		

### Irritation and corrosivity

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

### Sensitising effects

May cause an allergic skin reaction. (2,2'-ethylenedioxydiethyl dimethacrylate; n-butyl methacrylate; methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate)

### Carcinogenic/mutagenic/toxic effects for reproduction

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

2,2'-ethylenedioxydiethyl dimethacrylate:

In-vitro mutagenicity: Method: OECD Guideline 471 (Bacterial Reverse Mutation Assay), OECD Guideline 487 "In vitro Mammalian Cell Micronucleus Test"; Result: negative. Method: OECD Guideline 476 (In Vitro Mammalian Cell Gene Mutation Test). Result: heterogeneous; Literature information: ECHA Dossier; Developmental toxicity/teratogenicity/Reproductive toxicity: Method: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test); Species: Rat; Exposure duration: 35-42 d. Result: NOAEL = 1000 mg/kg(bw)day; Literature information: ECHA Dossier

alpha,alpha-dimethylbenzyl hydroperoxide; cumene hydroperoxide:

In-vitro mutagenicity: Method: OECD Guideline 471 (Bacterial Reverse Mutation Assay); Result: positive.; Literature information: ECHA Dossier; No experimental indications of mutagenicity in-vivo exist. Literature information: ECHA Dossier; In-vivo mutagenicity: Method: other guideline: Standard NTP protocol; Species: Mouse; Result: negative. Literature information: ECHA Dossier

n-butyl methacrylate (CAS-No.: 97-88-1):

In vitro mutagenicity/genotoxicity: No experimental indications of mutagenicity in-vitro exist.; Reproductive toxicity: NOAEL = 400 mg/kg(bw)/day (Rat, 21d, OECD 416); Developmental toxicity/teratogenicity : NOAEL = 300 mg/kg(bw)/day (Rabbit, 21d, OECD 414); Literature information: ECHA Dossier

methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate:

In-vitro mutagenicity: Method: OECD Guideline 471 (Bacterial Reverse Mutation Assay); Result: negative. Literature information: ECHA Dossier; Carcinogenicity: Method: (inhalation.): OECD Guideline 451 (Carcinogenicity Studies, 6h/d); Species: Mouse.; Exposure duration: 2 years; Result: NOAEC = 4,1 mg/l; Literature information: ECHA Dossier; Reproductive toxicity: Method: OECD Guideline 416 (Two-Generation Reproduction Toxicity Study); Species: Rat; Result: NOAEL = 400 mg/kg; Literature information: ECHA Dossier; Developmental toxicity/teratogenicity: Method: OECD Guideline 414 (Prenatal Developmental Toxicity Study); Species: Rabbit.

Exposure duration: 28d; Result: NOAEL = 450 mg/kg; Literature information: ECHA Dossier

### 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.

alpha,alpha-dimethylbenzyl hydroperoxide; cumene hydroperoxide:

Subchronic inhalation toxicity: Method: -; Species: Rat. Exposure duration: 90d. Result: NOAEC = 31 mg/m3. Literature information: ECHA Dossier

n-butyl methacrylate (CAS-No.: 97-88-1):

Subchronic oral toxicity: NOAEL = 120 mg/kg(bw)/day (Rat, 90d, OECD 408); Subacute inhalation toxicity: NOAEC = 310 ppm (Rat, 28d, OECD 412); Literature information: ECHA Dossier

methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate:

Chronic oral toxicity: Method: -; Species: Rat;Exposure duration: 2 years; Results: NOAEL = 2000 ppm.

Literature information: ECHA Dossier; Chronic inhalation toxicity: Method: OECD Guideline 453 (Combined

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

Print date: 15.04.2020

Revision date: 11.10.2017

VBA 5M77

Chronic Toxicity / Carcinogenicity Studies, 6h/d); Species: Rat; Exposure duration: approx. 2 years; Results: LOAEC = 250 ppm. 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
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
80-15-9	cumene hydroperoxide, alpha,alpha-dimethylbenzyl hydroperoxide					
	Acute fish toxicity	LC50	3,9 mg/l	96 h	Oncorhynchus mykiss	ECHA Dossier OECD Guideline 203
	Acute algae toxicity	ErC50	3,1 mg/l	72 h	Desmodesmus subspicatus	ECHA Dossier OECD Guideline 201
	Acute crustacea toxicity	EC50 mg/l	18,84	48 h	Daphnia magna	ECHA Dossier OECD Guideline 202
97-88-1	n-butyl methacrylate					
	Acute fish toxicity	LC50 mg/l	(5,57)	96 h	Oryzias latipes	ECHA Dossier
	Acute algae toxicity	ErC50 mg/l	31,2	72 h	Pseudokirchnerella subcapitata	ECHA Dossier
	Acute crustacea toxicity	EC50 mg/l	(25,4)	48 h	Daphnia magna	ECHA Dossier
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 mg/l	>110	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				
109-16-0	2,2'-ethylenedioxydiethyl dimethacrylate				
	OECD 301B/ ISO 9439/ EEC 92/69/V, C.4-C	85%	28	ECHA Dossier	

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

Print date: 15.04.2020

Revision date: 11.10.2017

VBA 5M77

	Readily biodegradable (according to OECD criteria).			
80-15-9	cumene hydroperoxide, alpha,alpha-dimethylbenzyl 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).			
97-88-1	n-butyl methacrylate			
	OECD 301C / ISO 9408 / EEC 92/69/V, C.4-F	88%	28	ECHA Dossier
	Readily biodegradable (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
80-15-9	cumene hydroperoxide, alpha,alpha-dimethylbenzyl hydroperoxide	2,16
97-88-1	n-butyl methacrylate	2,99
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 substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

### 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

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

Print date: 15.04.2020

Revision date: 11.10.2017

VBA 5M77

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

150203 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; absorbents, filter materials, wiping cloths and protective clothing; absorbents, filter materials, wiping cloths and protective clothing other than those mentioned in 15 02 02

### Contaminated packaging

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

## SECTION 14: Transport information

### Land transport (ADR/RID)

14.1. UN number: No dangerous good in sense of these transport regulations.  
 14.2. UN proper shipping name: No dangerous good in sense of these transport regulations.  
 14.3. Transport hazard class(es): No dangerous good in sense of these transport regulations.  
 14.4. Packing group: No dangerous good in sense of these transport regulations.

### Inland waterways transport (ADN)

14.1. UN number: No dangerous good in sense of these transport regulations.  
 14.2. UN proper shipping name: No dangerous good in sense of these transport regulations.  
 14.3. Transport hazard class(es): No dangerous good in sense of these transport regulations.  
 14.4. Packing group: No dangerous good in sense of these transport regulations.

### Marine transport (IMDG)

14.1. UN number: No dangerous good in sense of these transport regulations.  
 14.2. UN proper shipping name: No dangerous good in sense of these transport regulations.  
 14.3. Transport hazard class(es): No dangerous good in sense of these transport regulations.

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

14.1. UN number: No dangerous good in sense of these transport regulations.  
 14.2. UN proper shipping name: No dangerous good in sense of these transport regulations.  
 14.3. Transport hazard class(es): No dangerous good in sense of these transport regulations.

### 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

2010/75/EU (VOC): ~0,79% (calculated)

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

Print date: 15.04.2020

Revision date: 11.10.2017

VBA 5M77

2004/42/EC (VOC): ~18,2 g/l (calculated)  
 Information according to 2012/18/EU (SEVESO III): Not subject to 2012/18/EU (SEVESO III)

### Additional information

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (amended by Regulation (EU) No 2019/957)  
 The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].  
 REACH 1907/2006 Appendix XVII, No (mixture): 3

### National regulatory information

Employment restrictions: Observe restrictions to employment for juvenils 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  
 cumene hydroperoxide, alpha,alpha-dimethylbenzyl hydroperoxide

## SECTION 16: Other information

### Changes

Rev. 1.0 , Initial release : 07.03.2013  
 Rev. 2.00, Changes in chapter: 1-16; 11.10.2017

### 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)  
 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

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

Print date: 15.04.2020

Revision date: 11.10.2017

VBA 5M77

OECD: Organisation for Economic Co-operation and Development

PNEC: predicted no effect concentration

PBT: Persistent bioaccumulative toxic

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations 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 Regulation (EC) No. 1272/2008 [CLP]

Classification	Classification procedure
Skin Sens. 1; H317	Calculation method

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

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H242	Heating may cause a fire.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
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.
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

Classification according to Regulation (EC) No 1272/2008 [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.

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