

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### VMZ, VMZ 150, VMZ 280, VMZ 345, VMZ 420, (Comp. A)

Revision date: 31.10.2019

Page 1 of 7

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

##### 1.1. Product identifier

VMZ, VMZ 150, VMZ 280, VMZ 345, VMZ 420, (Comp. A)

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

###### Use of the substance/mixture

Adhesive mortar for fastening elements A-component (resin)

###### Uses advised against

no restriction

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

Company name:	Sikla GmbH	
Street:	In der Lache 17	
Place:	D-78056 VS-Schwenningen	
Telephone:	+49(0)7720 948 0	Telefax: +49(0)7720 948 337
e-mail:	info@sikla.de	
e-mail (Contact person):	info@sikla.de	
Internet:	www.sikla.de	

##### 1.4. Emergency telephone number:

+49 (0) 89-19240 (Giftnotruf München, German and English 24/7)

#### SECTION 2: Hazards identification

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

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

This mixture is not classified as hazardous in accordance with Regulation (EC) No. 1272/2008.

##### 2.2. Label elements

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

###### Special labelling of certain mixtures

EUH210 Safety data sheet available on request.

##### 2.3. Other hazards

No information available.

#### SECTION 3: Composition/information on ingredients

##### 3.2. Mixtures

###### Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	GHS Classification			
6606-59-3	1,6-Hexanediyl bismethacrylate			5 - < 10 %
	229-551-7		01-2120760621-59	
	Aquatic Chronic 3; H412			

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

#### SECTION 4: First aid measures

##### 4.1. Description of first aid measures

###### General information

Take off immediately all contaminated clothing and wash it before reuse.

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### VMZ, VMZ 150, VMZ 280, VMZ 345, VMZ 420, (Comp. A)

Revision date: 31.10.2019

Page 2 of 7

#### After inhalation

Provide fresh air.

#### After contact with skin

Wash with plenty of water. Take off contaminated clothing and wash it before reuse. After contact with skin, wash immediately with plenty of water and soap.

#### After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water. In case of eye irritation consult an ophthalmologist.

#### After ingestion

Rinse mouth thoroughly with water. Medical treatment necessary.

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

No known symptoms to date.

#### **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

Foam.  
Extinguishing powder  
Water spray jet  
Carbon dioxide (CO<sub>2</sub>).

##### Unsuitable extinguishing media

Full water jet

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

Pyrolysis products, toxic  
Carbon monoxide

#### **5.3. Advice for firefighters**

Wear a self-contained breathing apparatus and chemical protective clothing. Full protection suit. In case of fire and/or explosion do not breathe fumes.

#### **Additional information**

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**

Use personal protection equipment.

#### **6.2. Environmental precautions**

Do not allow to enter into surface water or drains.

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

Collect spillage. Take up mechanically, placing in appropriate containers for disposal. Suitable material for taking up: Sand  
Treat the recovered material as prescribed in the section on waste disposal.  
Retain contaminated washing water and dispose it.

#### **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**

- Use only outdoors or in a well-ventilated area.
- Wear personal protection equipment (refer to section 8).
- Avoid contact with skin, eyes and clothes.
- When using do not eat, drink or smoke.

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

#### **Requirements for storage rooms and vessels**

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

#### **Hints on joint storage**

- Do not use for products which come into contact with the food stuffs.

#### **Further information on storage conditions**

- storage temperature : 5 - 25 °C

### 7.3. Specific end use(s)

- Adhesive mortar for fastening elements A-component (resin)

## **SECTION 8: Exposure controls/personal protection**

### 8.1. Control parameters

#### **Additional advice on limit values**

- To date, no national critical limit values exist.

### 8.2. Exposure controls



#### **Appropriate engineering controls**

- Provide adequate ventilation.

#### **Protective and hygiene measures**

- Take off contaminated clothing and wash it before reuse. Draw up and observe skin protection programme.
- Wash hands thoroughly after handling. When using do not eat, drink or smoke.

#### **Eye/face protection**

- Wear eye protection/face protection. Safety goggles with side shields are recommended.

#### **Hand protection**

- Disposable gloves
- Recommended material: NBR (Nitrile rubber)
- Breakthrough time:
- Thickness of the glove material: > 0,2 mm
- DIN-/EN-Norms: EN 374

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. 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**

- Usually no personal respirative protection necessary.

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### VMZ, VMZ 150, VMZ 280, VMZ 345, VMZ 420, (Comp. A)

Revision date: 31.10.2019

Page 4 of 7

If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn. Respiratory protection with combination filter A1P2 (organic gases/vapors and particles)

## SECTION 9: Physical and chemical properties

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

Physical state: Paste  
 Colour: light beige  
 pH-Value: not determined

#### Changes in the physical state

Melting point: not determined  
 Initial boiling point and boiling range: not determined  
 Flash point: not applicable

#### Flammability

Solid: not determined  
 Gas: not applicable

Lower explosion limits: not determined  
 Upper explosion limits: not determined

#### Auto-ignition temperature

Solid: not determined  
 Gas: not applicable

Decomposition temperature: not determined

#### Oxidizing properties

Not oxidising.

Vapour pressure: not determined

Density (at 20 °C): 1,71 g/cm<sup>3</sup>

Water solubility: The study does not need to be conducted because the substance is known to be insoluble in water.

#### Solubility in other solvents

not determined

Partition coefficient: not determined

Vapour density: not determined

Evaporation rate: not determined

### 9.2. Other information

Solid content: not determined

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No hazardous reaction when handled and stored according to provisions.

### 10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

### 10.3. Possibility of hazardous reactions

Response: Oxidising agent, strong

### 10.4. Conditions to avoid

Heat. Keep cool. Protect from sunlight.

**VMZ, VMZ 150, VMZ 280, VMZ 345, VMZ 420, (Comp. A)**

Revision date: 31.10.2019

Page 5 of 7

**10.5. Incompatible materials**

No information available.

**10.6. Hazardous decomposition products**

No known hazardous decomposition products.

**SECTION 11: Toxicological information****11.1. Information on toxicological effects****SECTION 12: Ecological information****12.1. Toxicity**

The product is not: Ecotoxic.

**12.2. Persistence and degradability**

The product has not been tested.

**12.3. Bioaccumulative potential**

The product has not been tested.

**12.4. Mobility in soil**

The product has not been tested.

**12.5. Results of PBT and vPvB assessment**

The product has not been tested.

**12.6. Other adverse effects**

No information 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****Advice on disposal**

Subsequent waste code numbers of the European Waste Catalog are considered as recommendations.

Dispose of waste according to applicable legislation. Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

**Waste disposal number of waste from 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

**Waste disposal number of 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

**Waste disposal number of 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

**SECTION 14: Transport information**

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### VMZ, VMZ 150, VMZ 280, VMZ 345, VMZ 420, (Comp. A)

Revision date: 31.10.2019

Page 6 of 7

#### Land transport (ADR/RID)

<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.

#### Inland waterways transport (ADN)

<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.

#### Marine transport (IMDG)

<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**

No information available.

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

not applicable

### SECTION 15: Regulatory information

#### **15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

##### **EU regulatory information**

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

##### **Additional information**

VOC content: 0,4 % (DIN EN ISO 11890-2)

To follow: 850/2004/EC , 79/117/EEC , 689/2008/EC

##### **National regulatory information**

Water contaminating class (D): 2 - clearly water contaminating

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

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

### SECTION 16: Other information

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

**VMZ, VMZ 150, VMZ 280, VMZ 345, VMZ 420, (Comp. A)**

Revision date: 31.10.2019

Page 7 of 7

**Changes**

This data sheet contains changes from the previous version in section(s): 8.

**Abbreviations and acronyms**

ADN: Accord européen relatif au transport international des marchandises Dangereuses par voie de Navigation

(European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)

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

ATE: Acute Toxicity Estimates

CAS: Chemical Abstracts Service

CLP: Classification, Labeling and Packaging

DMEL: Derived Minimal Effect level

DNEL: Derived No Effect Level

EC50: Effective concentration, 50%

ErC50: EC50 in terms of reduction of growth rate

IATA: International Air Transport Association

IATA-DGR: Dangerous Goods Regulations (DRG) for the air transport (IATA)

ICAO: International Civil Aviation Organization

IMDG: International Maritime Dangerous Goods Code

LC50: Lethal concentration, 50%

LD50: Lethal dose, 50%

Marpol: International convention for the prevention of pollution from Ships (Marine Pollutant)

NOEC: No Observed Effect Concentration

PBT: persistent, bioaccumulative and toxic

vPvB: very persistent and very bioaccumulative

PNEC: Predicted No Effect Concentration

REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals

RID: Règlement concernant le transport international ferroviaire des marchandises dangereuses (Regulations Concerning the International Carriage of Dangerous Goods by Rail)

VOC: Volatile organic compound

Aquatic Chronic 3: Long-term aquatic hazard, Category 3

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

H412 Harmful to aquatic life with long lasting effects.

EUH210 Safety data sheet available on request.

**Further Information**

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.)*

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### VMZ, VMZ 150, VMZ 280, VMZ 345, VMZ 420, (Comp. B)

Revision date: 31.10.2019

Page 1 of 10

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

### 1.1. Product identifier

VMZ, VMZ 150, VMZ 280, VMZ 345, VMZ 420, (Comp. B)

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

#### Use of the substance/mixture

compound mortar B-component (hardener)

#### Uses advised against

no restriction

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

Company name:	Sikla GmbH	
Street:	In der Lache 17	
Place:	D-78056 VS-Schwenningen	
Telephone:	+49(0)7720 948 0	Telefax: +49(0)7720 948 337
e-mail:	info@sikla.de	
e-mail (Contact person):	info@sikla.de	
Internet:	www.sikla.de	

### 1.4. Emergency telephone number:

+49 (0) 89-19240 (Giftnotruf München, German and English 24/7)

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

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

Hazard categories:

Serious eye damage/eye irritation: Eye Irrit. 2

Respiratory or skin sensitisation: Skin Sens. 1

Hazard Statements:

Causes serious eye irritation.

May cause an allergic skin reaction.

### 2.2. Label elements

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

#### Hazard components for labelling

Dibenzoyl peroxide

Signal word: Warning

#### Pictograms:



#### Hazard statements

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

#### Precautionary statements

P261 Avoid breathing vapour.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P337+P313 If eye irritation persists: Get medical advice/attention.

P362+P364 Take off contaminated clothing and wash it before reuse.

P501 Dispose of contents/container in accordance with local/regional/national/international regulation.



## Safety Data Sheet

according to Regulation (EC) No 1907/2006

## VMZ, VMZ 150, VMZ 280, VMZ 345, VMZ 420, (Comp. B)

Revision date: 31.10.2019

Page 2 of 10

**Additional advice on labelling**

For distribution to the general public (consumers) additionally indicate voluntarily:

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of the reach of children.

**2.3. Other hazards**

No information available.

**SECTION 3: Composition/information on ingredients****3.2. Mixtures****Hazardous components**

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	GHS Classification			
94-36-0	Dibenzoyl peroxide			10 - < 15 %
	202-327-6	617-008-00-0	01-2119511472-50	
	Org. Perox. B, Eye Irrit. 2, Skin Sens. 1, Aquatic Acute 1 (M-Factor = 10), Aquatic Chronic 1 (M-Factor = 10); H241 H319 H317 H400 H410			

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

**Further Information**

The product has been tested for aquatic toxicity. The tests show no need for classification of the product as toxic and harmful to aquatic life. Test reports are available.

**SECTION 4: First aid measures****4.1. Description of first aid measures****General information**

First aider: Pay attention to self-protection! Take off immediately all contaminated clothing and wash it before reuse. Get medical advice/attention if you feel unwell.

**After inhalation**

Provide fresh air. 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 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**

Do NOT induce vomiting. Rinse mouth thoroughly with water. Medical treatment necessary.

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

May cause an allergic skin reaction.

Causes serious eye irritation.

**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**

Foam.

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### VMZ, VMZ 150, VMZ 280, VMZ 345, VMZ 420, (Comp. B)

Revision date: 31.10.2019

Page 3 of 10

Extinguishing powder  
Water spray jet  
Carbon dioxide (CO<sub>2</sub>).

#### Unsuitable extinguishing media

Full water jet

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

Pyrolysis products, toxic  
Carbon monoxide

#### 5.3. Advice for firefighters

In case of fire and/or explosion do not breathe fumes.  
Wear a self-contained breathing apparatus and chemical protective clothing. Full protection suit

#### Additional information

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

Use personal protective equipment as required. Provide adequate ventilation. Avoid contact with skin, eyes and clothes.

#### 6.2. Environmental precautions

Do not allow to enter into surface water or drains.

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

Collect spillage. Take up mechanically, placing in appropriate containers for disposal. Suitable material for taking up: Sand  
Treat the recovered material as prescribed in the section on waste disposal.  
Retain contaminated washing water and dispose it.

#### 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

Use only outdoors or in a well-ventilated area.  
Wear personal protection equipment (refer to section 8).  
Avoid contact with skin, eyes and clothes.  
When using do not eat, drink or smoke.  
Wash hands thoroughly after handling.  
Take off contaminated clothing and wash it before reuse.

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

##### Requirements for storage rooms and vessels

Keep container tightly closed.  
Store in a place accessible by authorized persons only.  
Keep only in the original container in a cool, well-ventilated place.

##### Hints on joint storage

Do not store together with: Oxidising agent, strong  
Do not use for products which come into contact with the food stuffs.

##### Further information on storage conditions

Keep container tightly closed in a cool place.

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### VMZ, VMZ 150, VMZ 280, VMZ 345, VMZ 420, (Comp. B)

Revision date: 31.10.2019

Page 4 of 10

storage temperature: 5 - 25°C

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

see section 1.2

### 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
94-36-0	Dibenzoyl peroxide	-	5		TWA (8 h)	WEL
56-81-5	Glycerol, mist	-	10		TWA (8 h)	WEL

##### DNEL/DMEL values

CAS No	Substance	Exposure route	Effect	Value
94-36-0	Dibenzoyl peroxide			
Consumer DNEL, long-term		oral	systemic	2 mg/kg bw/day
Worker DNEL, long-term		dermal	systemic	13,3 mg/kg bw/day
Worker DNEL, long-term		inhalation	systemic	39 mg/m <sup>3</sup>

##### PNEC values

CAS No	Substance	Value
Environmental compartment		
94-36-0	Dibenzoyl peroxide	
Freshwater		0,00002 mg/l
Marine water		0,000002 mg/l
Freshwater sediment		0,013 mg/kg
Marine sediment		0,001 mg/kg

#### 8.2. Exposure controls



##### Appropriate engineering controls

Provide adequate ventilation. If local exhaust ventilation is not possible or not sufficient, the entire working area must be ventilated by technical means.

##### Protective and hygiene measures

Take off contaminated clothing and wash it before reuse. Draw up and observe skin protection programme. Wash hands thoroughly after handling. When using do not eat or drink.

##### Eye/face protection

Wear eye protection/face protection. Safety goggles with side shields are recommended.

##### Hand protection

Disposable gloves  
 Recommended material: NBR (Nitrile rubber)  
 Breakthrough time:  
 Thickness of the glove material: > 0,2 mm

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### VMZ, VMZ 150, VMZ 280, VMZ 345, VMZ 420, (Comp. B)

Revision date: 31.10.2019

Page 5 of 10

DIN-/EN-Norms: EN 374

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. 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. Respiratory protection with combination filter A1P2 (organic gases/vapors and particles)

## SECTION 9: Physical and chemical properties

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

Physical state:	Paste	
Colour:	black	
Odour:	characteristic	
pH-Value:		not applicable

#### Changes in the physical state

Melting point:		not determined
Initial boiling point and boiling range:		not determined
Flash point:		not applicable

#### Flammability

Solid:		not determined
Gas:		not applicable
Lower explosion limits:		not determined
Upper explosion limits:		not determined

#### Auto-ignition temperature

Solid:		not determined
Gas:		not applicable
Decomposition temperature:		not determined

#### Oxidizing properties

Not oxidising.		
Available oxygen content (%) < 1%		
no classification		
Vapour pressure:		not determined
Density (at 20 °C):		1,59 g/cm <sup>3</sup>
Water solubility:		The study does not need to be conducted because the substance is known to be insoluble in water.

#### Solubility in other solvents

not determined		
Partition coefficient:		not determined
Vapour density:		not determined
Evaporation rate:		not determined

### 9.2. Other information

Solid content:		not determined
----------------	--	----------------

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### VMZ, VMZ 150, VMZ 280, VMZ 345, VMZ 420, (Comp. B)

Revision date: 31.10.2019

Page 6 of 10

#### SECTION 10: Stability and reactivity

##### 10.1. Reactivity

see section 10.3

##### 10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

##### 10.3. Possibility of hazardous reactions

Violent reaction with: Oxidising agent

##### 10.4. Conditions to avoid

see section 7.2

##### 10.5. Incompatible materials

Oxidising agent, strong

##### 10.6. Hazardous decomposition products

 Benzoic acid  
 Benzene  
 Biphenyl

#### SECTION 11: Toxicological information

##### 11.1. Information on toxicological effects

###### Acute toxicity

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
94-36-0	Dibenzoyl peroxide				
	oral	LD50 >5000 mg/kg	Rat		

###### Additional information on tests

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

#### SECTION 12: Ecological information

##### 12.1. Toxicity

The product is not: Ecotoxic.

OECD 201 (Desmodesmus subspicatus )

IC10: (0 - 72 h) = 30 mg/l

IC50: (0 - 72 h) = 150 mg/l

OECD 202 (Daphnia magna)

EC0/NOEC (48h) = 100 mg/l

EC50 (48h) = &gt;500 mg/l

EC100 (48h) = &gt;&gt;500 mg/l

OECD 203 (Danio rerio)

LC0/NOEC : 250 mg/l

LC50 : &gt; 500 mg/l

LC100 : &gt;&gt; 500 mg/l

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### VMZ, VMZ 150, VMZ 280, VMZ 345, VMZ 420, (Comp. B)

Revision date: 31.10.2019

Page 7 of 10

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h]   [d]	Species	Source	Method
94-36-0	Dibenzoyl peroxide					
	Acute fish toxicity	LC50 mg/l	0,0602	96 h	Oncorhynchus mykiss (Rainbow trout)	OECD 203
	Acute algae toxicity	ErC50 mg/l	0,0711	72 h	Pseudokirchneriella subcapitata	OECD 201
	Acute crustacea toxicity	EC50	0,11 mg/l	48 h	Daphnia magna (Big water flea)	OECD 202
	Algae toxicity	NOEC mg/l	0,02	3 d	Pseudokirchneriella subcapitata	OECD 201
	Crustacea toxicity	NOEC mg/l	0,001	21 d	Daphnia magna (Big water flea)	OECD 211
	Acute bacteria toxicity	(35 mg/l)		0,5 h		OECD 209

#### 12.2. Persistence and degradability

The product has not been tested.

CAS No	Chemical name			
	Method	Value	d	Source
	Evaluation			
94-36-0	Dibenzoyl peroxide			
	OECD 301D	71%	28	
	Readily biodegradable (according to OECD criteria).			

#### 12.3. Bioaccumulative potential

The product has not been tested.

#### Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
94-36-0	Dibenzoyl peroxide	3,2

#### 12.4. Mobility in soil

The product has not been tested.

#### 12.5. Results of PBT and vPvB assessment

The product has not been tested.

#### 12.6. Other adverse effects

No information 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

##### Advice on disposal

Subsequent waste code numbers of the European Waste Catalog are considered as recommendations. Dispose of waste according to applicable legislation. Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

##### Waste disposal number of waste from 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

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### VMZ, VMZ 150, VMZ 280, VMZ 345, VMZ 420, (Comp. B)

Revision date: 31.10.2019

Page 8 of 10

#### Waste disposal number of 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

#### Waste disposal number of 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

## SECTION 14: Transport information

### Land transport (ADR/RID)

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

### Inland waterways transport (ADN)

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

### Marine transport (IMDG)

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

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

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

### 14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no

### 14.6. Special precautions for user

No information available.

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

not applicable

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### EU regulatory information

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

**VMZ, VMZ 150, VMZ 280, VMZ 345, VMZ 420, (Comp. B)**

Revision date: 31.10.2019

Page 9 of 10

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

**Additional information**

VOC content: 4,3 % (DIN EN ISO 11890-2)

To follow: 850/2004/EC , 79/117/EEC , 689/2008/EC

**National regulatory information**

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

Water contaminating class (D): 1 - slightly water contaminating

Skin resorption/Sensitization: Causes allergic hypersensitivity reactions.

**15.2. Chemical safety assessment**

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

**SECTION 16: Other information****Changes**

This data sheet contains changes from the previous version in section(s): 8.

**Abbreviations and acronyms**

ADN: Accord européen relatif au transport international des marchandises Dangereuses par voie de Navigation  
(European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)

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, Labeling and Packaging

DMEL: Derived Minimal Effect level

DNEL: Derived No Effect Level

EC50: Effective concentration, 50%

IATA: International Air Transport Association

IATA-DGR: Dangerous Goods Regulations (DRG) for the air transport (IATA)

ICAO: International Civil Aviation Organization

IC50: Inhibitory concentration, 50%

IMDG: International Maritime Code for Dangerous Goods

LC50: Lethal concentration, 50%

LD50: Lethal dose, 50%

NOEC: No Observed Effect Concentration

OECD: Organisation for Economic Co-operation and Development

PBT: persistent, bioaccumulative and toxic

vPvB: very persistent and very bioaccumulative

PNEC: Predicted No Effect Concentration

REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals

RID: Règlement concernant le transport international ferroviaire de marchandises dangereuses (Regulations Concerning the International Carriage of Dangerous Goods by Rail)

VOC: Volatile organic compound

Aquatic Acute 1: Acute aquatic hazard, Category 1

Aquatic Chronic 1: Long-term aquatic hazard, Category 1

Eye Irrit. 2: Serious eye damage/eye irritation, Category 2

Skin Sens. 1: Skin sensitization, Category 1

Org. Perox. B: Organic Peroxides, Type B



## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### VMZ, VMZ 150, VMZ 280, VMZ 345, VMZ 420, (Comp. B)

Revision date: 31.10.2019

Page 10 of 10

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

Classification	Classification procedure
Eye Irrit. 2; H319	Calculation method
Skin Sens. 1; H317	Calculation method

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

H241	Heating may cause a fire or explosion.
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.

#### Further Information

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.)*