



Safety Data Sheet according to regulation (EC) No. 1907/2006 (REACH)

Print date 06.10.2020

Revision 06.10.2020

## VMZ Injection mortar

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

#### 1.1. Product identifier

VMZ, (Comp. A)

Art. no.: 204090-28

#### 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

##### Supplier (manufacturer/importer/only representative/downstream user/distributor)

Q-railing UK  
Unit 1, Tunstall Arrow  
James Brindley Way, Stoke-on-Trent  
Staffordshire, ST6 5GF  
Telephone +44 (0) 800 781 42 45 | +44 (0) 1782 711 676  
Email [sales.uk@q-railing.com](mailto:sales.uk@q-railing.com)  
[www.q-railing.com](http://www.q-railing.com)

##### Information contact

Sales UK  
Telephone +44 (0) 800 781 42 45 | +44 (0) 1782 711 676  
Email [sales.uk@q-railing.com](mailto:sales.uk@q-railing.com)

##### Emergency telephone number

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

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### 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.

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### SECTION 3: Composition/information on ingredients

#### 3.1. Mixtures

##### Hazardous ingredients

1,6-HEXANEDIYL BISMETHACRYLATE; REACH No. : 01-2120760621-59; EC No. : 229-551-7; CAS No. : 6606-59-3; H412;

Weight fraction : 1 - < 10 %

GHS Classification: Aquatic Chronic 3



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N,N-DIETHYLANILINE; REACH No. : 01-2119943758-22 ; EC No. : 202-088-8; CAS No. : 91-66-7

Weight fraction : < 0,5 %

GHS Classification: Acute Tox. 3, Acute Tox. 3, Acute Tox. 3, STOT RE 2, Aquatic Chronic 2; H331 H311 H301 H373 H411

**Additional information**

Full text of H- and EUH-phrases: see section 16.

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**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.

**After inhalation**

Provide fresh air.

**After contact with skin**

After contact with skin, wash immediately with plenty of water and soap. Call a doctor if you feel unwell.

**After contact with eyes**

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

**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**

No known symptoms to date.

**4.3 Indication of any immediate medical attention and special treatment needed**

Treat symptomatically.

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**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.



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### 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

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### 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)

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### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### Additional advice on limit values

This mixture contains quartz filler which is firmly bound in the pasty component, and thus not freely available during use, so that a risk of dust inhalation is excluded. Exposure limit values for respirable dusts are not relevant for this product.

#### 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.

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### Eye/face protection

Wear eye protection/face protection. Wear safety glasses.

### Hand protection

Disposable gloves

Recommended material: NBR (Nitrile rubber)

Breakthrough time: > 480 min

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.

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) recommended.

## SECTION 9: Physical and chemical properties

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

Physical state :	solid (pasty)
Colour:	light beige
Odor:	characteristic
Odour threshold:	no data available
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 determined
Lower explosion limits:	not determined
Upper explosion limit :	not determined

### Auto-ignition temperature

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

### Oxidizing properties

Not oxidising.

Vapor pressure :	not determined
Density ( 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
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### 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.

#### 10.5. Incompatible materials

No information available.

#### 10.6. Hazardous decomposition products

No known hazardous decomposition products.

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### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

##### Acute toxicity

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

N,N-DIETHYLANILINE; CAS No. : 91-66-7

Exposure route : Oral  
Species: Rat  
Dose: LD50 610 mg/kg

Exposure route : Dermal  
Dose: ATE 300mg/kg

Exposure route: Inhalation (4 h) vapour  
Species : Rat  
Dose : LC50 1,92 mg/l

Exposure route : Inhalation aerosol  
Dose: ATE 0,5 mg/l

Effective dose: 2764 mg/kg  
Method : OECD 402

##### Irritation and corrosivity

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

##### Sensitising effects

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

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

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

##### STOT-single exposure

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

##### STOT-repeated exposure

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

##### Aspiration hazard

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



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### SECTION 12: Ecological information

#### 12.1. Toxicity

The product is not: Ecotoxic.

#### Aquatic toxicity

##### Acute algae toxicity

N,N-DIETHYLANILINE; CAS No. : 91-66-7

Effective dose: ErC50 5,6 mg/l

Exposure time: 72 h

#### 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.

#### 12.7. Additional ecotoxicological information

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

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### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

##### Disposal recommendations

Subsequent waste code numbers of the European Waste Catalogue 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.

##### 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



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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

## SECTION 14: Transport information

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

UN number : No dangerous good in sense of this transport regulation.  
UN proper shipping name : No dangerous good in sense of this transport regulation.  
Transport hazard class(e) : No dangerous good in sense of this transport regulation.  
Packing group : No dangerous good in sense of this transport regulation.

### 14.2. Inland waterways transport (ADN)

UN number : No dangerous good in sense of this transport regulation.  
UN proper shipping name : No dangerous good in sense of this transport regulation.  
Transport hazard class(e) : No dangerous good in sense of this transport regulation.  
Packing group : No dangerous good in sense of this transport regulation.

### 14.3. Marine transport (IMDG)

UN number : No dangerous good in sense of this transport regulation.  
UN proper shipping name : No dangerous good in sense of this transport regulation.  
Transport hazard class(e) : No dangerous good in sense of this transport regulation.  
Packing group : No dangerous good in sense of this transport regulation.

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

UN number : No dangerous good in sense of this transport regulation.  
UN proper shipping name : No dangerous good in sense of this transport regulation.  
Transport hazard class(e) : No dangerous good in sense of this transport regulation.  
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.

### 14.2. 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  
(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 hazard class (D): 2 - obviously hazardous to water



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## SECTION 16: Other information

### Changes

This data sheet contains changes from the previous version in section(s): 9.

### 16.1. 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

### 16.3. Relevant H- and EUH-phrases (Number and full text)

H301 Toxic if swallowed.

H311 Toxic in contact with skin.

H331 Toxic if inhaled.

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.

EUH210 Safety data sheet available on request.

### 16.4. Additional 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.)*





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

#### 1.1. Product identifier

VMZ, (Comp. B)

Art. no.: 204090-28

#### 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

##### Supplier (manufacturer/importer/only representative/downstream user/distributor)

Q-railing UK  
Unit 1, Tunstall Arrow  
James Brindley Way, Stoke-on-Trent  
Staffordshire, ST6 5GF  
Telephone +44 (0) 800 781 42 45 | +44 (0) 1782 711 676  
Email [sales.uk@q-railing.com](mailto:sales.uk@q-railing.com)  
[www.q-railing.com](http://www.q-railing.com)

##### Information contact

Sales UK  
Telephone +44 (0) 800 781 42 45 | +44 (0) 1782 711 676  
Email [sales.uk@q-railing.com](mailto:sales.uk@q-railing.com)

##### Emergency telephone number

+49 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 vapours.

P280 Wear protective gloves and eye/face protection.



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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 to an approved waste disposal plant in accordance with

**2.3. Other hazards**

No information available.

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

**3.2. Mixtures**

**Hazardous components**

DIBENZOYL PEROXIDE; REACH No. : 01-2119511472-50; EC No. : 202-327-6; CAS No. : 94-36-0; Weight fraction : 5 - < 15 %  
GHS Classification: Org. Perox. B, Eye Irrit. 2, Skin Sens. 1, Aquatic Acute 1, Aquatic Chronic 1; H241 H319 H317  
H400 H410

Full text of H- and EUH-phrases: see section 16.

**Specific concentration limits and M-factors**

DIBENZOYL PEROXIDE; EC No. : 202-327-6; CAS No. : 94-36-0; Weight fraction : 5 - < 15 %  
Specific concentration limits and M-factors: M akut; H400: M=10 M chron.; H410: M=10

**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.

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**SECTION 4: First aid measures**

**4.1 Description of first aid measures**

**General information**

Take 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.

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**SECTION 5: Firefighting measures**

**5.1. Extinguishing media**  
**Suitable extinguishing**



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### 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

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.

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## SECTION 6: Accidental release measures

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

Use personal protection 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

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## 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.

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### 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.  
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)

DIBENZOYL PEROXIDE; CAS No. : 94-36-0

Limit value : 5 mg/m<sup>3</sup>

Category: TWA (8 h)

Origin: WEL

GLYCEROL, MIST; CAS No. : 56-81-5

Limit value : 10 mg/m<sup>3</sup>

Category: TWA (8 h)

Origin: WEL

#### DNEL/DMEL values

DIBENZOYL PEROXIDE; CAS No. : 94-36-0

DNEL type: Consumer DNEL, long-term

Exposure route: oral

Effect: systemic

Value: 2 mg/kg bw/day

DNEL type: Worker DNEL, long-term

Exposure route: dermal

Effect: systemic

Value: 13,3 mg/kg bw/day

DNEL type: Worker DNEL, long-term

Exposure route: inhalation

Effect: systemic

Value: 39 mg/kg

#### PNEC values

DIBENZOYL PEROXIDE; CAS No. : 94-36-0

Environmental compartment: Freshwater

Value: 0,00002 mg/l

Environmental compartment: Marine water

Value: 0,000002 mg/l

Environmental compartment: Freshwater sediment

Value: 0,013 mg/kg

Environmental compartment: Marine sediment

Value: 0,001 mg/kg

#### Additional advice on limit values

This mixture contains quartz filler which is firmly bound in the pasty component, and thus not freely available during use, so that a risk of dust inhalation is excluded. Exposure limit values for respirable dusts are not relevant for this product.



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### 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. Wear safety glasses.

#### Hand protection

Disposable gloves

Recommended material: NBR (Nitrile rubber)

Breakthrough time: > 480 min

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

In case of inadequate ventilation wear respiratory protection. Respiratory protection with combination filter A1P2 (organic gases/vapors and particles) recommended.

## SECTION 9: Physical and chemical properties

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

Physical state :	solid (pasty)
Colour:	black
Odor:	characteristic
Odour threshold:	no data available
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 limit :	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



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Vapor pressure : not determined  
Density ( 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



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### 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

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### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

##### Acute toxicity

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

DIBENZOYL PEROXIDE; CAS No. : 94-36-0

Exposure route : Oral

Dose: LD50 > 5000 mg/kg

Species : Rat

##### Irritation and corrosivity

Causes serious eye irritation.

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

##### Sensitising effects

May cause an allergic skin reaction. (Dibenzoyl peroxide).

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

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

##### STOT-single exposure

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

##### STOT-repeated exposure

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

##### Aspiration hazard

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

##### Further information

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

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### SECTION 12: Ecological information

#### 12.1. Toxicity

The product is not: Ecotoxic.



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### 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) = >500 mg/l

EC100 (48h) = >>500 mg/l

### OECD 203 (Danio rerio)

LC0/NOEC : 250 mg/l

LC50 : > 500 mg/l

LC100 : >> 500 mg/l

### Aquatic toxicity

DIBENZOYL PEROXIDE; CAS No. : 94-36-0

Aquatic toxicity: Acute fish toxicity

Dose: LC50 0,0602 mg/l

Exposure time: 96 h

Species: Oncorhynchus mykiss (Rainbow trout)

Source: OECD 203

Aquatic toxicity: Acute algae toxicity

Dose: ErC50 0,0711 mg/l

Exposure time: 72 h

Species: Pseudokirchneriella subcapitata

Source: OECD 201

Aquatic toxicity: Acute crustacea toxicity

Dose: EC50 0,11 mg/l

Exposure time: 48 h

Species: Daphnia magna (Big water flea)

Source: OECD 202

Aquatic toxicity: Algae toxicity

Dose: NOEC 0,02 mg/l

Exposure time: 3 d

Species: Pseudokirchneriella subcapitata

Source: OECD 201

Aquatic toxicity: Crustacea toxicity

Dose: NOEC 0,001 mg/l

Exposure time: 21 d

Species: Daphnia magna (Big water flea)

Source: OECD 211

Aquatic toxicity: Acute bacteria toxicity

Dose: (35 mg/l)

Exposure time: 0,5 h

Source: OECD 209

### 12.2. Persistence and degradability

The product has not been tested.

DIBENZOYL PEROXIDE; CAS No. : 94-36-0

Method: OECD 301D

Value: 71%

Exposure time: 28 d

Evaluation: Readily biodegradable (according to OECD criteria).

### 12.3. Bioaccumulative potential

The product has not been tested.

### Partition coefficient n-octanol/water

DIBENZOYL PEROXIDE; CAS No. : 94-36-0

Log Pow: 3,2

### 12.4. Mobility in soil

The product has not been tested.





## VMZ Injection mortar

### 12.5. Results of PBT and vPvB assessment

The product has not been tested.

### 12.6. Other adverse effects

No information available.

### 12.7. Additional ecotoxicological information

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

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## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

#### Disposal recommendations

Subsequent waste code numbers of the European Waste Catalogue 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.

#### 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

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## SECTION 14: Transport information

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

UN number : No dangerous good in sense of this transport regulation.  
UN proper shipping name : No dangerous good in sense of this transport regulation.  
Transport hazard class(e) : No dangerous good in sense of this transport regulation.  
Packing group : No dangerous good in sense of this transport regulation.



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### 14.2. Inland waterways transport (ADN)

UN number : No dangerous good in sense of this transport regulation.  
UN proper shipping name : No dangerous good in sense of this transport regulation.  
Transport hazard class(e) : No dangerous good in sense of this transport regulation.  
Packing group : No dangerous good in sense of this transport regulation.

### 14.3. Marine transport (IMDG)

UN number : No dangerous good in sense of this transport regulation.  
UN proper shipping name : No dangerous good in sense of this transport regulation.  
Transport hazard class(e) : No dangerous good in sense of this transport regulation.  
Packing group : No dangerous good in sense of this transport regulation.

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

UN number : No dangerous good in sense of this transport regulation.  
UN proper shipping name : No dangerous good in sense of this transport regulation.  
Transport hazard class(e) : No dangerous good in sense of this transport regulation.  
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.

### 14.2. 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: 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 juveniles according to the 'juvenile work protection guideline' (94/33/EC).

Water hazard class (D): 1 - slightly hazardous to water

Skin resorption/Sensitization: Causes allergic hypersensitivity reactions.

## SECTION 16: Other information

### Changes

This data sheet contains changes from the previous version in section(s): 2.

### 16.1. 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



**Safety Data Sheet** according to regulation (EC) No. 1907/2006 (REACH)

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**VMZ Injection mortar**

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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

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

Classification: Eye Irrit. 2; H319; Skin Sens. 1; H317

**16.3. Relevant H- and EUH-phrases (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..

**16.4. 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.)*