

# Safety Data Sheet

according to Regulation (EC) No 1907/2006

## VM-EA, Comp. A

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

#### 1.1. Product identifier

VM-EA, Comp. A

UFI: U0E9-J077-200V-JFY7

#### 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: MKT Metall-Kunststoff-Technik GmbH &amp; Co. KG

Street: Auf dem Immel 2

Place: D-67685 Weilerbach

Telephone: +49(0)6374-91 16-0

Telefax: +49(0)6374-91 16-60

e-mail: info@mkt.de

Internet: www.mkt.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:

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

Tetramethylene dimethacrylate;

Ethylene dimethacrylate;

Methacrylic acid, monoester with propane-1,2-diol;

Reaction mass of 2,2'-[(4-methylphenyl)imino]bisethanol and Ethanol 2-[[2-(2-hydroxyethoxy)ethyl](4-methylphenyl)amino]

Signal word: Warning

##### Pictograms:



##### Hazard statements

H317 May cause an allergic skin reaction.

##### Precautionary statements

P261 Avoid breathing vapours.

P272 Contaminated work clothing should not be allowed out of the workplace.

P280 Wear protective gloves.

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

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

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Dispose of contents/container to an approved waste disposal plant in accordance with local/national regulation.

### 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                                                                                                                                          |            |
| 2082-81-7  | Tetramethylene dimethacrylate                                                                                                                               | 5 - < 15 % |
|            | 218-218-1                                                                                                                                                   |            |
|            | 01-2119967415-30                                                                                                                                            |            |
|            | Skin Sens. 1B; H317                                                                                                                                         |            |
| 25013-15-4 | Vinyltoluene                                                                                                                                                | 1 - < 6 %  |
|            | 246-562-2                                                                                                                                                   |            |
|            | 01-2119622074-50                                                                                                                                            |            |
|            | Flam. Liq. 3, Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2, Aquatic Chronic 3; H226 H332 H315 H319 H412                                                        |            |
| 97-90-5    | Ethylene dimethacrylate                                                                                                                                     | 1 - < 5 %  |
|            | 202-617-2                                                                                                                                                   |            |
|            | 607-114-00-5                                                                                                                                                |            |
|            | 01-2119965172-38                                                                                                                                            |            |
|            | Skin Sens. 1, STOT SE 3; H317 H335                                                                                                                          |            |
| 27813-02-1 | Methacrylic acid, monoester with propane-1,2-diol                                                                                                           | < 2,5 %    |
|            | 248-666-3                                                                                                                                                   |            |
|            | 01-2119490226-37                                                                                                                                            |            |
|            | Eye Irrit. 2, Skin Sens. 1; H319 H317                                                                                                                       |            |
| 6846-50-0  | 1-Isopropyl-2,2-dimethyltrimethylene Diisobutyrate                                                                                                          | < 0,5 %    |
|            | 229-934-9                                                                                                                                                   |            |
|            | 01-2119451093-47                                                                                                                                            |            |
|            | Repr. 2, Aquatic Chronic 3; H361d H412                                                                                                                      |            |
| -          | Reaction mass of 2,2'-[(4-methylphenyl)imino]bisethanol and Ethanol 2-[[2-(2-hydroxyethoxy)ethyl](4-methylphenyl)amino]                                     | < 0,5 %    |
|            | 911-490-9                                                                                                                                                   |            |
|            | 01-2119979579-10                                                                                                                                            |            |
|            | Acute Tox. 4, Skin Irrit. 2, Eye Dam. 1, Skin Sens. 1, Aquatic Chronic 3; H302 H315 H318 H317 H412                                                          |            |
| 38668-48-3 | 1,1'-(p-Tolylimino)dipropan-2-ol                                                                                                                            | < 0,5 %    |
|            | 254-075-1                                                                                                                                                   |            |
|            | 01-2119980937-17                                                                                                                                            |            |
|            | Acute Tox. 2, Eye Irrit. 2, Aquatic Chronic 3; H300 H319 H412                                                                                               |            |
| 130-15-4   | 1,4-naphthoquinone                                                                                                                                          | < 0,05 %   |
|            | 204-977-6                                                                                                                                                   |            |
|            | 01-2120760462-57                                                                                                                                            |            |
|            | Acute Tox. 2, Acute Tox. 3, Skin Corr. 1C, Eye Dam. 1, Skin Sens. 1, STOT SE 3, Aquatic Acute 1, Aquatic Chronic 1; H330 H301 H314 H318 H317 H335 H400 H410 |            |

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

#### Specific concentration limits and M-factors

| CAS No   | EC No     | Chemical name                               | Quantity  |
|----------|-----------|---------------------------------------------|-----------|
|          |           | Specific concentration limits and M-factors |           |
| 97-90-5  | 202-617-2 | Ethylene dimethacrylate                     | 1 - < 5 % |
|          |           | STOT SE 3; H335: $\geq 10 - 100$            |           |
| 130-15-4 | 204-977-6 | 1,4-naphthoquinone                          | < 0,05 %  |
|          |           | M akut; H400: M=10 M chron.; H410: M=1      |           |

**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. 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.

**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**

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**

Avoid release to the environment. 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

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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 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**

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#### DNEL/DMEL values

| CAS No                   | Substance                                                                                                               | Exposure route | Effect   | Value                   |
|--------------------------|-------------------------------------------------------------------------------------------------------------------------|----------------|----------|-------------------------|
| 2082-81-7                | Tetramethylene dimethacrylate                                                                                           |                |          |                         |
| Worker DNEL, long-term   |                                                                                                                         | inhalation     | systemic | 14,5 mg/m <sup>3</sup>  |
| Worker DNEL, long-term   |                                                                                                                         | dermal         | systemic | 4,2 mg/kg bw/day        |
| Consumer DNEL, long-term |                                                                                                                         | inhalation     | systemic | 4,3 mg/m <sup>3</sup>   |
| Consumer DNEL, long-term |                                                                                                                         | dermal         | systemic | 2,5 mg/kg bw/day        |
| Consumer DNEL, long-term |                                                                                                                         | oral           | systemic | 2,5 mg/kg bw/day        |
| 25013-15-4               | Vinyltoluene                                                                                                            |                |          |                         |
| Worker DNEL, long-term   |                                                                                                                         | inhalation     | systemic | 37 mg/m <sup>3</sup>    |
| Worker DNEL, acute       |                                                                                                                         | inhalation     | systemic | 37 mg/m <sup>3</sup>    |
| Worker DNEL, long-term   |                                                                                                                         | inhalation     | local    | 37 mg/m <sup>3</sup>    |
| 97-90-5                  | Ethylene dimethacrylate                                                                                                 |                |          |                         |
| Worker DNEL, long-term   |                                                                                                                         | inhalation     | systemic | 2,45 mg/m <sup>3</sup>  |
| Worker DNEL, long-term   |                                                                                                                         | dermal         | systemic | 1,3 mg/kg bw/day        |
| 27813-02-1               | Methacrylic acid, monoester with propane-1,2-diol                                                                       |                |          |                         |
| Worker DNEL, long-term   |                                                                                                                         | inhalation     | systemic | 14,7 mg/m <sup>3</sup>  |
| Worker DNEL, long-term   |                                                                                                                         | dermal         | systemic | 4,2 mg/kg bw/day        |
| Consumer DNEL, long-term |                                                                                                                         | inhalation     | systemic | 8,8 mg/m <sup>3</sup>   |
| Consumer DNEL, long-term |                                                                                                                         | dermal         | systemic | 2,5 mg/kg bw/day        |
| Consumer DNEL, long-term |                                                                                                                         | oral           | systemic | 2,5 mg/kg bw/day        |
| 6846-50-0                | 1-Isopropyl-2,2-dimethyltrimethylene Diisobutyrate                                                                      |                |          |                         |
| Worker DNEL, long-term   |                                                                                                                         | dermal         | systemic | 5 mg/kg bw/day          |
| Worker DNEL, long-term   |                                                                                                                         | inhalation     | systemic | 17,62 mg/m <sup>3</sup> |
| Consumer DNEL, long-term |                                                                                                                         | inhalation     | systemic | 4,35 mg/m <sup>3</sup>  |
| Consumer DNEL, long-term |                                                                                                                         | oral           | systemic | 5 mg/kg bw/day          |
| Consumer DNEL, long-term |                                                                                                                         | dermal         | systemic | 5 mg/kg bw/day          |
| -                        | Reaction mass of 2,2'-[(4-methylphenyl)imino]bisethanol and Ethanol 2-[[2-(2-hydroxyethoxy)ethyl](4-methylphenyl)amino] |                |          |                         |
| Worker DNEL, long-term   |                                                                                                                         | inhalation     | systemic | 9,8 mg/m <sup>3</sup>   |
| Worker DNEL, long-term   |                                                                                                                         | dermal         | systemic | 1,4 mg/kg bw/day        |
| Consumer DNEL, long-term |                                                                                                                         | inhalation     | systemic | 2,9 mg/m <sup>3</sup>   |
| Consumer DNEL, long-term |                                                                                                                         | oral           | systemic | 0,83 mg/kg bw/day       |
| Consumer DNEL, long-term |                                                                                                                         | dermal         | systemic | 0,83 mg/kg bw/day       |
| 130-15-4                 | 1,4-naphthoquinone                                                                                                      |                |          |                         |
| Worker DNEL, long-term   |                                                                                                                         | inhalation     | systemic | 0,033 mg/m <sup>3</sup> |

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#### PNEC values

| CAS No                                           | Substance                                                                                                               | Value       |
|--------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|-------------|
| Environmental compartment                        |                                                                                                                         |             |
| 2082-81-7                                        | Tetramethylene dimethacrylate                                                                                           |             |
| Freshwater                                       |                                                                                                                         | 0,043 mg/l  |
| Marine water                                     |                                                                                                                         | 0,004 mg/l  |
| Freshwater sediment                              |                                                                                                                         | 3,12 mg/kg  |
| Marine sediment                                  |                                                                                                                         | 0,312 mg/kg |
| Micro-organisms in sewage treatment plants (STP) |                                                                                                                         | 2 mg/l      |
| Soil                                             |                                                                                                                         | 0,573 mg/kg |
| 25013-15-4                                       | Vinyltoluene                                                                                                            |             |
| Freshwater                                       |                                                                                                                         | 0,05 mg/l   |
| Marine water                                     |                                                                                                                         | 0,002 mg/l  |
| Freshwater sediment                              |                                                                                                                         | 0,684 mg/kg |
| Marine sediment                                  |                                                                                                                         | 0,684 mg/kg |
| Soil                                             |                                                                                                                         | 0,133 mg/kg |
| 97-90-5                                          | Ethylene dimethacrylate                                                                                                 |             |
| Freshwater                                       |                                                                                                                         | 0,139 mg/l  |
| Marine water                                     |                                                                                                                         | 0,014 mg/l  |
| Marine water (intermittent releases)             |                                                                                                                         | 0,15 mg/l   |
| Freshwater sediment                              |                                                                                                                         | 1,6 mg/kg   |
| Marine sediment                                  |                                                                                                                         | 0,16 mg/kg  |
| Micro-organisms in sewage treatment plants (STP) |                                                                                                                         | 57 mg/l     |
| Soil                                             |                                                                                                                         | 0,239 mg/kg |
| 27813-02-1                                       | Methacrylic acid, monoester with propane-1,2-diol                                                                       |             |
| Freshwater                                       |                                                                                                                         | 0,904 mg/l  |
| Marine water                                     |                                                                                                                         | 0,904 mg/l  |
| Freshwater sediment                              |                                                                                                                         | 6,28 mg/kg  |
| Marine sediment                                  |                                                                                                                         | 6,28 mg/kg  |
| Micro-organisms in sewage treatment plants (STP) |                                                                                                                         | 10 mg/l     |
| Soil                                             |                                                                                                                         | 0,727 mg/kg |
| 6846-50-0                                        | 1-Isopropyl-2,2-dimethyltrimethylene Diisobutyrate                                                                      |             |
| Freshwater                                       |                                                                                                                         | 0,014 mg/l  |
| Marine water                                     |                                                                                                                         | 0,001 mg/l  |
| Freshwater sediment                              |                                                                                                                         | 5,29 mg/kg  |
| Marine sediment                                  |                                                                                                                         | 0,529 mg/kg |
| Soil                                             |                                                                                                                         | 1,05 mg/kg  |
| -                                                | Reaction mass of 2,2'-[(4-methylphenyl)imino]bisethanol and Ethanol 2-[[2-(2-hydroxyethoxy)ethyl](4-methylphenyl)amino] |             |
| Freshwater                                       |                                                                                                                         | 0,048 mg/l  |
| Marine water                                     |                                                                                                                         | 0,005 mg/l  |
| Freshwater sediment                              |                                                                                                                         | 0,12 mg/kg  |
| Marine sediment                                  |                                                                                                                         | 0,12 mg/kg  |
| 130-15-4                                         | 1,4-naphthoquinone                                                                                                      |             |

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|                                                  |            |
|--------------------------------------------------|------------|
| Freshwater                                       | 26,1 mg/l  |
| Marine water                                     | 2,61 mg/l  |
| Freshwater sediment                              | 321 mg/kg  |
| Marine sediment                                  | 32,1 mg/kg |
| Micro-organisms in sewage treatment plants (STP) | 0,172 mg/l |
| Soil                                             | 49 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.

#### 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, drink or smoke.

#### 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:          | light beige       |                |
| Odour:           | characteristic    |                |
| Odour threshold: | No data available |                |
| pH-Value:        |                   | not determined |

#### Changes in the physical state

|                |                |
|----------------|----------------|
| Melting point: | not determined |
|----------------|----------------|

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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): 1,72 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.

**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****Acute toxicity**

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



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| CAS No     | Chemical name                                                                                                           |               |          |            |          |
|------------|-------------------------------------------------------------------------------------------------------------------------|---------------|----------|------------|----------|
|            | Exposure route                                                                                                          | Dose          | Species  | Source     | Method   |
| 2082-81-7  | Tetramethylene dimethacrylate                                                                                           |               |          |            |          |
|            | oral                                                                                                                    | LD50<br>mg/kg | 10066    | Rat        |          |
|            | dermal                                                                                                                  | LD50<br>mg/kg | > 3000   | Rabbit     |          |
| 25013-15-4 | Vinyltoluene                                                                                                            |               |          |            |          |
|            | dermal                                                                                                                  | LD50<br>mg/kg | 4585     | Rabbit     |          |
|            | inhalation vapour                                                                                                       | ATE           | 11 mg/l  |            |          |
|            | inhalation aerosol                                                                                                      | ATE           | 1,5 mg/l |            |          |
| 97-90-5    | Ethylene dimethacrylate                                                                                                 |               |          |            |          |
|            | oral                                                                                                                    | LD50<br>mg/kg | 8700     | Rat        |          |
|            | dermal                                                                                                                  | LD50<br>mg/kg | > 2000   | Rat        |          |
| 27813-02-1 | Methacrylic acid, monoester with propane-1,2-diol                                                                       |               |          |            |          |
|            | oral                                                                                                                    | LD50<br>mg/kg | > 2000   | Rat        |          |
|            | dermal                                                                                                                  | LD50<br>mg/kg | > 5000   | Rabbit     |          |
| 6846-50-0  | 1-Isopropyl-2,2-dimethyltrimethylene Diisobutyrate                                                                      |               |          |            |          |
|            | oral                                                                                                                    | LD50<br>mg/kg | 3200     | Rat        |          |
|            | dermal                                                                                                                  | LD50<br>mg/kg | 18900    | Guinea pig |          |
| -          | Reaction mass of 2,2'-[(4-methylphenyl)imino]bisethanol and Ethanol 2-[[2-(2-hydroxyethoxy)ethyl](4-methylphenyl)amino] |               |          |            |          |
|            | oral                                                                                                                    | LD50<br>mg/kg | 619      | Rat        |          |
| 38668-48-3 | 1,1'-(p-Tolylimino)dipropyl-2-ol                                                                                        |               |          |            |          |
|            | oral                                                                                                                    | LD50<br>mg/kg | 27,5     | Rat        | OECD 423 |
|            | dermal                                                                                                                  | LD50<br>mg/kg | > 2000   | Rat        |          |
| 130-15-4   | 1,4-naphthoquinone                                                                                                      |               |          |            |          |
|            | oral                                                                                                                    | LD50<br>mg/kg | 124      | Rat        |          |
|            | inhalation vapour                                                                                                       | ATE           | 0,5 mg/l |            |          |
|            | inhalation (4 h) aerosol                                                                                                | LC50<br>mg/l  | 0,046    | Rat        |          |

**Irritation and corrosivity**

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

**Sensitising effects**

May cause an allergic skin reaction. (Tetramethylene dimethacrylate; Ethylene dimethacrylate; Methacrylic acid, monoester with propane-1,2-diol; Reaction mass of 2,2'-[(4-methylphenyl)imino]bisethanol and Ethanol 2-[[2-(2-hydroxyethoxy)ethyl](4-methylphenyl)amino]; 1,4-naphthoquinone)

**Carcinogenic/mutagenic/toxic effects for reproduction**

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



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#### **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].

## SECTION 12: Ecological information

### **12.1. Toxicity**

The product is not: Ecotoxic.

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| CAS No     | Chemical name                                                                                                          |               |           |         |                                 |          |
|------------|------------------------------------------------------------------------------------------------------------------------|---------------|-----------|---------|---------------------------------|----------|
|            | Aquatic toxicity                                                                                                       | Dose          | [h]   [d] | Species | Source                          | Method   |
| 2082-81-7  | Tetramethylene dimethacrylate                                                                                          |               |           |         |                                 |          |
|            | Acute algae toxicity                                                                                                   | ErC50<br>mg/l | 9,79      | 72 h    |                                 |          |
|            | Crustacea toxicity                                                                                                     | NOEC<br>mg/l  | 5,09      | 21 d    |                                 |          |
| 25013-15-4 | Vinyltoluene                                                                                                           |               |           |         |                                 |          |
|            | Acute fish toxicity                                                                                                    | LC50          | 5,2 mg/l  | 96 h    |                                 |          |
|            | Acute algae toxicity                                                                                                   | ErC50         | 2,6 mg/l  | 72 h    |                                 |          |
|            | Acute crustacea toxicity                                                                                               | EC50          | 9,3 mg/l  | 48 h    | Daphnia magna (Big water flea)  |          |
| 97-90-5    | Ethylene dimethacrylate                                                                                                |               |           |         |                                 |          |
|            | Acute fish toxicity                                                                                                    | LC50<br>mg/l  | 15,95     | 96 h    | Brachydanio rerio (zebra-fish)  |          |
|            | Acute algae toxicity                                                                                                   | ErC50<br>mg/l | 17,3      | 72 h    | Pseudokirchneriella subcapitata |          |
|            | Acute crustacea toxicity                                                                                               | EC50<br>mg/l  | 44,9      | 48 h    | Daphnia magna (Big water flea)  |          |
|            | Crustacea toxicity                                                                                                     | NOEC<br>mg/l  | 13,2      | 2 d     |                                 |          |
| 27813-02-1 | Methacrylic acid, monoester with propane-1,2-diol                                                                      |               |           |         |                                 |          |
|            | Acute algae toxicity                                                                                                   | ErC50<br>mg/l | > 97,2    | 72 h    | Pseudokirchneriella subcapitata |          |
|            | Acute crustacea toxicity                                                                                               | EC50<br>mg/l  | > 143     | 48 h    | Daphnia magna (Big water flea)  |          |
|            | Algae toxicity                                                                                                         | NOEC          | mg/l      |         |                                 |          |
| 6846-50-0  | 1-Isopropyl-2,2-dimethyltrimethylene Diisobutyrate                                                                     |               |           |         |                                 |          |
|            | Algae toxicity                                                                                                         | NOEC<br>mg/l  | 2,25      | 3 d     |                                 |          |
| -          | Reaction mass of 2,2'-(4-methylphenyl)imino]bisethanol and Ethanol 2-[[2-(2-hydroxyethoxy)ethyl](4-methylphenyl)amino] |               |           |         |                                 |          |
|            | Acute fish toxicity                                                                                                    | LC50<br>mg/l  | > 100     | 96 h    |                                 |          |
|            | Acute algae toxicity                                                                                                   | ErC50<br>mg/l | > 100     | 72 h    |                                 |          |
|            | Acute crustacea toxicity                                                                                               | EC50          | 48 mg/l   | 48 h    |                                 |          |
| 38668-48-3 | 1,1'-(p-Tolylimino)dipropan-2-ol                                                                                       |               |           |         |                                 |          |
|            | Acute fish toxicity                                                                                                    | LC50          | 17 mg/l   | 96 h    | Brachydanio rerio (zebra-fish)  |          |
|            | Acute algae toxicity                                                                                                   | ErC50         | 245 mg/l  | 72 h    | Desmodesmus subspicatus         |          |
|            | Acute crustacea toxicity                                                                                               | EC50<br>mg/l  | 28,8      | 48 h    | Daphnia magna (Big water flea)  |          |
|            | Algae toxicity                                                                                                         | NOEC<br>mg/l  | 57,8      | 72 d    | Desmodesmus subspicatus         | OECD 201 |
| 130-15-4   | 1,4-naphthoquinone                                                                                                     |               |           |         |                                 |          |
|            | Acute fish toxicity                                                                                                    | LC50<br>mg/l  | 0,045     | 96 h    | Oryzias latipes (Ricefish)      |          |
|            | Acute algae toxicity                                                                                                   | ErC50<br>mg/l | 0,42      | 72 h    |                                 |          |

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|  |                          |              |       |      |  |  |  |
|--|--------------------------|--------------|-------|------|--|--|--|
|  | Acute crustacea toxicity | EC50<br>mg/l | 0,026 | 48 h |  |  |  |
|  | Algae toxicity           | NOEC<br>mg/l | 0,07  | 3 d  |  |  |  |

#### 12.2. Persistence and degradability

The product has not been tested.

| CAS No     | Chemical name                                     | Method     | Value  | d  | Source |
|------------|---------------------------------------------------|------------|--------|----|--------|
|            |                                                   | Evaluation |        |    |        |
| 2082-81-7  | Tetramethylene dimethacrylate                     | OECD 310   | 84 %   | 28 |        |
| 25013-15-4 | Vinyltoluene                                      | OECD 310   | 36,7 % | 28 |        |
| 97-90-5    | Ethylene dimethacrylate                           | OECD 301D  | 71 %   | 28 |        |
| 27813-02-1 | Methacrylic acid, monoester with propane-1,2-diol | OECD 301C  | 81%    | 28 |        |
| 130-15-4   | 1,4-naphthoquinone                                |            | 39 %   | 5  |        |

#### 12.3. Bioaccumulative potential

The product has not been tested.

##### Partition coefficient n-octanol/water

| CAS No     | Chemical name                                                                                                           | Log Pow |
|------------|-------------------------------------------------------------------------------------------------------------------------|---------|
| 2082-81-7  | Tetramethylene dimethacrylate                                                                                           | 3,1     |
| 25013-15-4 | Vinyltoluene                                                                                                            | 3,35    |
| 97-90-5    | Ethylene dimethacrylate                                                                                                 | 2,4     |
| 27813-02-1 | Methacrylic acid, monoester with propane-1,2-diol                                                                       | 0,97    |
| 6846-50-0  | 1-Isopropyl-2,2-dimethyltrimethylene Diisobutyrate                                                                      | 4,91    |
| -          | Reaction mass of 2,2'-[(4-methylphenyl)imino]bisethanol and Ethanol 2-[[2-(2-hydroxyethoxy)ethyl](4-methylphenyl)amino] | 2,17    |
| 38668-48-3 | 1,1'-(p-Tolylimino)dipropan-2-ol                                                                                        | 2,1     |
| 130-15-4   | 1,4-naphthoquinone                                                                                                      | 1,77    |

##### BCF

| CAS No     | Chemical name | BCF       | Species | Source |
|------------|---------------|-----------|---------|--------|
| 25013-15-4 | Vinyltoluene  | 100 - 320 |         |        |

#### 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

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**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

**SECTION 14: Transport information****Land transport (ADR/RID)**

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

**Inland waterways transport (ADN)**

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

**Marine transport (IMDG)**

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

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

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

**14.5. Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: no

**14.6. Special precautions for user**

No information available.

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**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: 2,8 % (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): 2 - obviously 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): 2,3.

**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%

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)

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

Acute Tox. 3: Acute toxicity, Category 3

Acute Tox. 2: Acute toxicity, Category 2

Acute Tox. 4: Acute toxicity, Category 4

Aquatic Acute 1: Acute aquatic hazard, Category 1

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Aquatic Chronic 1: Long-term aquatic hazard, Category 1  
 Aquatic Chronic 3: Long-term aquatic hazard, Category 3  
 Asp. Tox. 1: Aspiration hazard, Category 1  
 Eye Dam. 1: Serious eye damage/eye irritation, Category 1  
 Eye Irrit. 2: Serious eye damage/eye irritation, Category 2  
 Flam. Liq. 3: Flammable liquid, Category 3  
 Repr. 2: Reproductive toxicity, Category 2  
 Skin Corr. 1C: Skin corrosion/irritation, Category 1C  
 Skin Irrit. 2: Serious eye damage/eye irritation, Category 2  
 Skin Sens. 1A: Skin sensitization, Category 1A  
 Skin Sens. 1B: Skin sensitization, Category 1B  
 STOT SE 3: Specific target organ toxicity (single exposure), Category 3

#### 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)

|       |                                                       |
|-------|-------------------------------------------------------|
| H226  | Flammable liquid and vapour.                          |
| H300  | Fatal if swallowed.                                   |
| H301  | Toxic if swallowed.                                   |
| H302  | Harmful if swallowed.                                 |
| H314  | Causes severe skin burns and eye damage.              |
| H315  | Causes skin irritation.                               |
| H317  | May cause an allergic skin reaction.                  |
| H318  | Causes serious eye damage.                            |
| H319  | Causes serious eye irritation.                        |
| H330  | Fatal if inhaled.                                     |
| H332  | Harmful if inhaled.                                   |
| H335  | May cause respiratory irritation.                     |
| H361d | Suspected of damaging the unborn child.               |
| H400  | Very toxic to aquatic life.                           |
| H410  | Very toxic to aquatic life with long lasting effects. |
| H412  | Harmful 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.)*

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**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

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UFI: 4WH5-F0KW-G00D-40Y8

**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: MKT Metall-Kunststoff-Technik GmbH & Co. KG  
Street: Auf dem Immel 2  
Place: D-67685 Weilerbach  
Telephone: +49(0)6374-91 16-0 Telefax: +49(0)6374-91 16-60  
e-mail: info@mkt.de  
Internet: www.mkt.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 vapours.

P280 Wear protective gloves and eye/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 to an approved waste disposal plant in accordance with



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local/national regulation.

### 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                                                                                      |              |                  | 5 - < 15 % |
|         | 202-327-6                                                                                               | 617-008-00-0 | 01-2119511472-50 |            |
|         | Org. Perox. B, Eye Irrit. 2, Skin Sens. 1, Aquatic Acute 1, Aquatic Chronic 1; H241 H319 H317 H400 H410 |              |                  |            |

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

#### Specific concentration limits and M-factors

| CAS No  | EC No                                   | Chemical name                               | Quantity   |
|---------|-----------------------------------------|---------------------------------------------|------------|
|         |                                         | Specific concentration limits and M-factors |            |
| 94-36-0 | 202-327-6                               | Dibenzoyl peroxide                          | 5 - < 15 % |
|         | 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.

## 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

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**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**

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.

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#### 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)

| 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   |

#### 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. 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.

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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**

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             |                |
| Odour:           | 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 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. |

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#### 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

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

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

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

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#### Further information

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) = >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

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

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**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****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

**SECTION 14: Transport information****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)**

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- 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

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): 2,3.

#### 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



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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

**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.)*