

## VIN-FIX, Comp. A

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

#### 1.1. Product identifier

VIN-FIX, Comp. A

UFI: 9CU2-R0RH-Q006-ASVS

#### 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: ROTHO BLAAS SRL  
Street: Via dell'Adige N. 2/1  
Place: I-39040 Cortaccia (BZ)  
Telephone: +39 0471 81 84 00  
E-mail: reach@rothoblaas.com  
Internet: www.rothoblaas.com

#### 1.4. Emergency telephone number:

+49 (0)551-19240 (GIZ-Nord, English 24/7) Note: The product is not being placed on the market in Ireland. The SDS is used for internal purposes only.

### SECTION 2: Hazards identification

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

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

Skin Sens. 1; H317

Aquatic Chronic 3; H412

Full text of hazard statements: see SECTION 16.

#### 2.2. Label elements

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

##### Hazard components for labelling

Tetramethylene 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.  
H412 Harmful to aquatic life with long lasting effects.

##### Precautionary statements

P261 Avoid breathing vapours.  
P273 Avoid release to the environment.  
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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P501 Dispose of contents/container to an approved waste disposal plant in accordance with local/national regulation.

### 2.3. Other hazards

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

This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

#### Hazardous components

| CAS No     | Chemical name                                                                                                                                               | Quantity         |
|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|
|            | EC No                                                                                                                                                       | Index No         |
|            | REACH No                                                                                                                                                    |                  |
|            | Classification (Regulation (EC) No 1272/2008)                                                                                                               |                  |
| 2082-81-7  | Tetramethylene dimethacrylate                                                                                                                               | 1 - < 15 %       |
|            | 218-218-1                                                                                                                                                   | 01-2119967415-30 |
|            | Skin Sens. 1B; H317                                                                                                                                         |                  |
| 25013-15-4 | Vinyltoluene                                                                                                                                                | 1 - < 8 %        |
|            | 246-562-2                                                                                                                                                   | 01-2119622074-50 |
|            | Flam. Liq. 3, Skin Irrit. 2, Aquatic Acute 1, Aquatic Chronic 2; H226 H315 H400 H411                                                                        |                  |
| 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                                                                                                                       |                  |
| -          | 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                                                          |                  |
| 6846-50-0  | 1-Isopropyl-2,2-dimethyltrimethylene Diisobutyrate                                                                                                          | < 0,3 %          |
|            | 229-934-9                                                                                                                                                   | 01-2119451093-47 |
|            | Repr. 2, Aquatic Chronic 3; H361 H412                                                                                                                       |                  |
| 38668-48-3 | 1,1'-(p-Tolylimino)dipropyl-2-ol                                                                                                                            | < 0,5 %          |
|            | 254-075-1                                                                                                                                                   | 01-2119980937-17 |
|            | Acute Tox. 2, Eye Irrit. 2; H300 H319                                                                                                                       |                  |
| 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.

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### Specific Conc. Limits, M-factors and ATE

| CAS No     | EC No     | Chemical name                                                                                                                                                            | Quantity   |
|------------|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|
|            |           | Specific Conc. Limits, M-factors and ATE                                                                                                                                 |            |
| 2082-81-7  | 218-218-1 | Tetramethylene dimethacrylate                                                                                                                                            | 1 - < 15 % |
|            |           | dermal: LD50 = > 3000 mg/kg; oral: LD50 = 10066 mg/kg                                                                                                                    |            |
| 25013-15-4 | 246-562-2 | Vinyltoluene                                                                                                                                                             | 1 - < 8 %  |
|            |           | dermal: LD50 = 4585 mg/kg Aquatic Acute 1; H400: M=1                                                                                                                     |            |
| 27813-02-1 | 248-666-3 | Methacrylic acid, monoester with propane-1,2-diol                                                                                                                        | < 2,5 %    |
|            |           | dermal: LD50 = > 5000 mg/kg; oral: LD50 = > 2000 mg/kg                                                                                                                   |            |
| -          | 911-490-9 | Reaction mass of 2,2'-[(4-methylphenyl)imino]bisethanol and Ethanol 2-[[2-(2-hydroxyethoxy)ethyl](4-methylphenyl)amino]                                                  | < 0,5 %    |
|            |           | dermal: LD50 = > 2000 mg/kg; oral: LD50 = 619 mg/kg                                                                                                                      |            |
| 6846-50-0  | 229-934-9 | 1-Isopropyl-2,2-dimethyltrimethylene Diisobutryate                                                                                                                       | < 0,3 %    |
|            |           | dermal: LD50 = 18900 mg/kg; oral: LD50 = 3200 mg/kg                                                                                                                      |            |
| 38668-48-3 | 254-075-1 | 1,1'-(p-Tolylimino)dipropen-2-ol                                                                                                                                         | < 0,5 %    |
|            |           | dermal: LD50 = > 2000 mg/kg; oral: LD50 = > 25 - 200 mg/kg                                                                                                               |            |
| 130-15-4   | 204-977-6 | 1,4-naphthoquinone                                                                                                                                                       | < 0,05 %   |
|            |           | inhalation: ATE = 0,5 mg/l (vapours); inhalation: LC50 = 0,046 mg/l (dusts or mists); oral: LD50 = 124 mg/kg Aquatic Acute 1; H400: M=10<br>Aquatic Chronic 1; 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 (CO2)

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**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****General advice**

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****For 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.

**Advice on general occupational hygiene**

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.

**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.

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#### 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

##### Occupational exposure limits

| CAS No     | Substance                    | ppm | mg/m <sup>3</sup> | fib/cm <sup>3</sup> | Category      | Origin |
|------------|------------------------------|-----|-------------------|---------------------|---------------|--------|
| 25013-15-4 | Methylstyrene, mixed isomers | 50  | 242               |                     | TWA (8 h)     |        |
|            |                              | 10  | 483               |                     | STEL (15 min) |        |

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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>    |       |
| 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        |       |
| -                        | 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       |       |
| 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          |       |
| 38668-48-3               | 1,1'-(p-Tolylimino)dipropan-2-ol                                                                                        |                |                         |       |
| Worker DNEL, long-term   | inhalation                                                                                                              | systemic       | 2 mg/m <sup>3</sup>     |       |
| Worker DNEL, long-term   | dermal                                                                                                                  | systemic       | 0,6 mg/kg bw/day        |       |
| Consumer DNEL, long-term | oral                                                                                                                    | systemic       | 0,3 mg/kg bw/day        |       |
| Consumer DNEL, long-term | dermal                                                                                                                  | systemic       | 0,3 mg/kg bw/day        |       |
| Consumer DNEL, long-term | inhalation                                                                                                              | systemic       | 0,4 mg/m <sup>3</sup>   |       |
| 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                                                                                                               |              |
|-------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|--------------|
| Environmental compartment                       |                                                                                                                         | Value        |
| 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  |
| Microorganisms 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  |
| 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   |
| Microorganisms in sewage treatment plants (STP) |                                                                                                                         | 10 mg/l      |
| Soil                                            |                                                                                                                         | 0,727 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   |
| 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   |
| 38668-48-3                                      | 1,1'-(p-Tolylimino)dipropan-2-ol                                                                                        |              |
| Freshwater                                      |                                                                                                                         | 0,017 mg/l   |
| Marine water                                    |                                                                                                                         | 0,0017 mg/l  |
| Freshwater sediment                             |                                                                                                                         | 0,0783 mg/kg |
| Marine sediment                                 |                                                                                                                         | 0,0072 mg/kg |
| Soil                                            |                                                                                                                         | 0,005 mg/kg  |
| 130-15-4                                        | 1,4-naphthoquinone                                                                                                      |              |
| Freshwater                                      |                                                                                                                         | 26,1 mg/l    |

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

#### Additional advice on limit values

This mixture contains quartz (inorganic filler) which is firmly bound in the paste-like component and is therefore not freely available during use. The risk of dust inhalation is excluded. Exposure limits 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.

#### Individual protection measures, such as personal protective equipment

##### 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)

## 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 |                   |
| Melting point/freezing point:                             |                   | No data available |
| Boiling point or initial boiling point and boiling range: |                   | No data available |
| Flammability:                                             |                   | Non-flammable.    |
| Lower explosion limits:                                   |                   | not applicable    |
| Upper explosion limits:                                   |                   | not applicable    |
| Flash point:                                              |                   | not applicable    |

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|                                        |                                                                                                  |
|----------------------------------------|--------------------------------------------------------------------------------------------------|
| Auto-ignition temperature:             | not applicable                                                                                   |
| Decomposition temperature:             | No data available                                                                                |
| pH-Value:                              | The study does not need to be conducted because the substance is known to be insoluble in water. |
| Viscosity / kinematic:                 | not applicable                                                                                   |
| Water solubility:                      | The study does not need to be conducted because the substance is known to be insoluble in water. |
| Solubility in other solvents           |                                                                                                  |
| No data available                      |                                                                                                  |
| Partition coefficient n-octanol/water: | not applicable                                                                                   |
| Vapour pressure:                       | No data available                                                                                |
| Density (at 20 °C):                    | 1,72 g/cm <sup>3</sup>                                                                           |
| Relative vapour density:               | not applicable                                                                                   |
| Particle characteristics:              | No data available                                                                                |

### 9.2. Other information

#### Information with regard to physical hazard classes

Self-ignition temperature

Solid:

not applicable

Oxidizing properties

Not oxidising.

#### Other safety characteristics

Evaporation rate:

No data available

Solid content:

No data available

## 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 hazard classes as defined in Regulation (EC) No 1272/2008

#### Acute toxicity

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

#### ATEmix calculated

ATE (oral) &gt; 5000 mg/kg; ATE (dermal) &gt; 2000 mg/kg; ATE (inhalation vapour) &gt; 50 mg/l; ATE (inhalation dust/mist) &gt; 12,5 mg/l

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| CAS No     | Chemical name                                                                                                           |                       |            |        |        |
|------------|-------------------------------------------------------------------------------------------------------------------------|-----------------------|------------|--------|--------|
|            | Exposure route                                                                                                          | Dose                  | Species    | Source | Method |
| 2082-81-7  | Tetramethylene dimethacrylate                                                                                           |                       |            |        |        |
|            | oral                                                                                                                    | LD50 10066 mg/kg      | Rat        |        |        |
|            | dermal                                                                                                                  | LD50 > 3000 mg/kg     | Rabbit     |        |        |
| 25013-15-4 | Vinyltoluene                                                                                                            |                       |            |        |        |
|            | dermal                                                                                                                  | LD50 4585 mg/kg       | Rabbit     |        |        |
| 27813-02-1 | Methacrylic acid, monoester with propane-1,2-diol                                                                       |                       |            |        |        |
|            | oral                                                                                                                    | LD50 > 2000 mg/kg     | Rat        |        |        |
|            | dermal                                                                                                                  | LD50 > 5000 mg/kg     | Rabbit     |        |        |
| -          | Reaction mass of 2,2'-[(4-methylphenyl)imino]bisethanol and Ethanol 2-[[2-(2-hydroxyethoxy)ethyl](4-methylphenyl)amino] |                       |            |        |        |
|            | oral                                                                                                                    | LD50 619 mg/kg        | Rat        |        |        |
|            | dermal                                                                                                                  | LD50 > 2000 mg/kg     | Rat        |        |        |
| 6846-50-0  | 1-Isopropyl-2,2-dimethyltrimethylene Diisobutyrate                                                                      |                       |            |        |        |
|            | oral                                                                                                                    | LD50 3200 mg/kg       | Rat        |        |        |
|            | dermal                                                                                                                  | LD50 18900 mg/kg      | Guinea pig |        |        |
| 38668-48-3 | 1,1'-(p-Tolylimino)dipropen-2-ol                                                                                        |                       |            |        |        |
|            | oral                                                                                                                    | LD50 > 25 - 200 mg/kg | Rat        |        |        |
|            | dermal                                                                                                                  | LD50 > 2000 mg/kg     | Rat        |        |        |
| 130-15-4   | 1,4-naphthoquinone                                                                                                      |                       |            |        |        |
|            | oral                                                                                                                    | LD50 124 mg/kg        | Rat        |        |        |
|            | inhalation vapour                                                                                                       | ATE 0,5 mg/l          |            |        |        |
|            | inhalation (4 h) dust/mist                                                                                              | LC50 0,046 mg/l       | Rat        |        |        |

#### Irritation and corrosivity

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

Serious eye damage/eye irritation: Based on available data, the classification criteria are not met.

#### Sensitising effects

May cause an allergic skin reaction. (Tetramethylene 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

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

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

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

#### STOT-single exposure

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

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**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.

**11.2. Information on other hazards****Endocrine disrupting properties**

This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

**SECTION 12: Ecological information****12.1. Toxicity**

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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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    | Desmodesmus<br>subspicatus         |          |
|            | Crustacea toxicity                                                                                                          | NOEC<br>mg/l  | 5,09      | 21 d    | Daphnia magna (Big<br>water flea)  |          |
| 25013-15-4 | Vinyltoluene                                                                                                                |               |           |         |                                    |          |
|            | Acute fish toxicity                                                                                                         | LC50<br>mg/l  | 1 - 10    | 96 h    |                                    |          |
|            | Acute algae toxicity                                                                                                        | ErC50<br>mg/l | 0,319     | 72 h    |                                    |          |
|            | Acute crustacea toxicity                                                                                                    | EC50          | 9,3 mg/l  | 48 h    | Daphnia magna (Big<br>water flea)  |          |
| 27813-02-1 | Methacrylic acid, monoester with propane-1,2-diol                                                                           |               |           |         |                                    |          |
|            | Acute algae toxicity                                                                                                        | ErC50<br>mg/l | > 97,2    | 72 h    | Pseudokirchneriella<br>subcapitata |          |
|            | Acute crustacea toxicity                                                                                                    | EC50<br>mg/l  | > 143     | 48 h    | Daphnia magna (Big<br>water flea)  |          |
| -          | Reaction mass of 2,2'-[(4-methylphenyl)imino]bisethanol and Ethanol 2-[[2-(2-hydroxyethoxy)ethyl]<br>(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    |                                    |          |
| 6846-50-0  | 1-Isopropyl-2,2-dimethyltrimethylene Diisobutyrate                                                                          |               |           |         |                                    |          |
|            | Algae toxicity                                                                                                              | NOEC<br>mg/l  | 2,25      | 3 d     |                                    |          |
| 38668-48-3 | 1,1'-(p-Tolylimino)dipropen-2-ol                                                                                            |               |           |         |                                    |          |
|            | Acute fish toxicity                                                                                                         | LC50          | 17 mg/l   | 96 h    | Danio rerio (zebrafish)            |          |
|            | Acute algae toxicity                                                                                                        | ErC50         | 245 mg/l  | 72 h    | Desmodesmus<br>subspicatus         |          |
|            | Acute crustacea toxicity                                                                                                    | EC50<br>mg/l  | 28,8      | 48 h    | Daphnia magna (Big<br>water flea)  |          |
|            | Algae toxicity                                                                                                              | NOEC<br>mg/l  | 57,8      | 72 d    | Desmodesmus<br>subspicatus         | OECD 201 |
| 130-15-4   | 1,4-naphthoquinone                                                                                                          |               |           |         |                                    |          |
|            | Acute fish toxicity                                                                                                         | LC50<br>mg/l  | 0,045     | 96 h    | Oryzias latipes<br>(Ricefish)      |          |
|            | Acute algae toxicity                                                                                                        | ErC50<br>mg/l | 0,42      | 72 h    |                                    |          |
|            | 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.

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| 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 |        |
| 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    |
| 27813-02-1 | Methacrylic acid, monoester with propane-1,2-diol                                                                       | 0,97    |
| -          | Reaction mass of 2,2'-[(4-methylphenyl)imino]bisethanol and Ethanol 2-[[2-(2-hydroxyethoxy)ethyl](4-methylphenyl)amino] | 2,17    |
| 6846-50-0  | 1-Isopropyl-2,2-dimethyltrimethylene Diisobutyrate                                                                      | 4,91    |
| 38668-48-3 | 1,1'-(p-Tolylimino)dipropyl-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 substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

The product has not been tested.

### 12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

### 12.7. 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

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

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- 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)

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

### Inland waterways transport (ADN)

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

### Marine transport (IMDG)

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

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

- 14.1. UN number or ID 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. Maritime transport in bulk according to IMO instruments

not applicable

## SECTION 15: Regulatory information

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

#### EU regulatory information

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Restrictions on use (REACH, annex XVII):

Entry 40, Entry 75

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

### 15.2. Chemical safety assessment

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

## SECTION 16: Other information

### 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

Aquatic Acute 1: Acute aquatic hazard, Category 1

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

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

### Key literature references and sources for data

Website European Chemicals Agency: <https://echa.europa.eu>

Data sources: Supplier

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

| Classification          | Classification procedure |
|-------------------------|--------------------------|
| Skin Sens. 1; H317      | Calculation method       |
| Aquatic Chronic 3; H412 | 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.                                     |
| H335 | May cause respiratory irritation.                     |
| H361 | Suspected of damaging fertility or the unborn child.  |
| H400 | Very toxic to aquatic life.                           |
| H410 | Very toxic to aquatic life with long lasting effects. |
| H411 | Toxic to aquatic life with long lasting effects.      |
| H412 | Harmful to aquatic life with long lasting effects.    |

#### Further Information

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 relevant 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: D6S2-30GM-100U-T8A5

#### 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: ROTHO BLAAS SRL  
Street: Via dell'Adige N. 2/1  
Place: I-39040 Cortaccia (BZ)  
Telephone: +39 0471 81 84 00  
E-mail: reach@rothoblaas.com  
Internet: www.rothoblaas.com

#### 1.4. Emergency telephone number:

+49 (0)551-19240 (GIZ-Nord, English 24/7) Note: The product is not being placed on the market in Ireland. The SDS is used for internal purposes only.

### SECTION 2: Hazards identification

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

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

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

Full text of hazard statements: see SECTION 16.

#### 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 protection/face protection.  
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.  
P337+P313 If eye irritation persists: Get medical advice/attention.  
P362+P364 Take off contaminated clothing and wash it before reuse.  
P501 Dispose of contents/container to an approved waste disposal plant in accordance with local/national regulation.

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### 2.3. Other hazards

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

This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

#### Hazardous components

| CAS No  | Chemical name                                                                                           |              |                  | Quantity   |
|---------|---------------------------------------------------------------------------------------------------------|--------------|------------------|------------|
|         | EC No                                                                                                   | Index No     | REACH No         |            |
|         | Classification (Regulation (EC) No 1272/2008)                                                           |              |                  |            |
| 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 Conc. Limits, M-factors and ATE

| CAS No  | EC No                                                                                  | Chemical name                            | Quantity   |
|---------|----------------------------------------------------------------------------------------|------------------------------------------|------------|
|         |                                                                                        | Specific Conc. Limits, M-factors and ATE |            |
| 94-36-0 | 202-327-6                                                                              | Dibenzoyl peroxide                       | 5 - < 15 % |
|         | oral: LD50 = > 5000 mg/kg Aquatic Acute 1; H400: M=10<br>Aquatic Chronic 1; 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.

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**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**

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****General advice**

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****For 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.

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### Advice on general occupational hygiene

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.

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

#### Requirements for storage rooms and vessels

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

#### Hints on joint storage

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

#### Further information on storage conditions

Keep container tightly closed in a cool place.  
storage temperature: 5 - 25°C

### 7.3. Specific end use(s)

compound mortar B-component (hardener)

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Occupational exposure limits

| CAS No  | Substance                            | ppm | mg/m <sup>3</sup> | fib/cm <sup>3</sup> | Category  | Origin |
|---------|--------------------------------------|-----|-------------------|---------------------|-----------|--------|
| 56-81-5 | (OLD) Glycerol, mist                 | -   | 10                |                     | TWA (8 h) |        |
| 94-36-0 | Benzoyl peroxid (Dibenzoyl peroxide) | -   | 5                 |                     | TWA (8 h) |        |

#### DNEL/DMEL values

| CAS No                   | Substance          |                |          |                   |
|--------------------------|--------------------|----------------|----------|-------------------|
| DNEL type                |                    | 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/m³          |

#### PNEC values

| CAS No              | Substance          | Value         |
|---------------------|--------------------|---------------|
| 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 (inorganic filler) which is firmly bound in the paste-like component and is therefore not freely available during use. The risk of dust inhalation is excluded. Exposure limits 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.

### Individual protection measures, such as personal protective equipment

#### Eye/face protection

Wear eye protection/face protection. Wear safety glasses. DIN EN 166

#### 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)

## 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 |                                                                                                  |
| Melting point/freezing point:                             |                   | No data available                                                                                |
| Boiling point or initial boiling point and boiling range: |                   | No data available                                                                                |
| Flammability:                                             |                   | Combustible                                                                                      |
| Lower explosion limits:                                   |                   | not applicable                                                                                   |
| Upper explosion limits:                                   |                   | not applicable                                                                                   |
| Flash point:                                              |                   | not applicable                                                                                   |
| Auto-ignition temperature:                                |                   | not applicable                                                                                   |
| Decomposition temperature:                                |                   | Start of decomposition: >35 °C                                                                   |
| pH-Value:                                                 |                   | The study does not need to be conducted because the substance is known to be insoluble in water. |
| Viscosity / kinematic:                                    |                   | not applicable                                                                                   |
| Water solubility:                                         |                   | The study does not need to be conducted because the substance is known to be insoluble in water. |
| Solubility in other solvents:                             |                   |                                                                                                  |
|                                                           |                   | No data available                                                                                |

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|                                        |                        |
|----------------------------------------|------------------------|
| Partition coefficient n-octanol/water: | not applicable         |
| Vapour pressure:                       | No data available      |
| Density (at 20 °C):                    | 1,59 g/cm <sup>3</sup> |
| Relative vapour density:               | not applicable         |
| Particle characteristics:              | No data available      |

### 9.2. Other information

#### Information with regard to physical hazard classes

Explosive properties

The product is not: Explosive.

Self-ignition temperature

Solid:

not applicable

Oxidizing properties

Not oxidising.

Available oxygen content: 0,74 %

#### Other safety characteristics

Evaporation rate:

No data available

Solid content:

No data available

## 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 hazard classes as defined in Regulation (EC) No 1272/2008

#### Acute toxicity

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

#### ATEmix calculated

ATE (oral) &gt; 2000 mg/kg; ATE (dermal) &gt; 2000 mg/kg; ATE (inhalation vapour) &gt; 20 mg/l; ATE (inhalation dust/mist) &gt; 5 mg/l

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

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**Irritation and corrosivity**

Serious eye damage/eye irritation: 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**

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

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

Reproductive toxicity: 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.

**11.2. Information on other hazards****Endocrine disrupting properties**

This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

**SECTION 12: Ecological information****12.1. Toxicity**

The product is not: Ecotoxic.

OECD 201 (Desmodesmus subspicatus )

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

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

OECD 202 (Daphnia magna)

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

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

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

OECD 203 (Danio rerio)

LC0/NOEC (96 h) : 250 mg/l

LC50 (96 h) : &gt; 500 mg/l

LC100 (96 h) : &gt;&gt; 500 mg/l

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| 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  | EC50          | 35 mg/l ( ) | 0,5 h   |                                        | OECD 209 |

#### 12.2. Persistence and degradability

The product has not been tested.

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

#### 12.3. Bioaccumulative potential

The product has not been tested.

#### Partition coefficient n-octanol/water

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

#### 12.4. Mobility in soil

The product has not been tested.

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

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

The product has not been tested.

#### 12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

#### 12.7. 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

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.

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### 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)

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

### Inland waterways transport (ADN)

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

### Marine transport (IMDG)

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

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

- |                                          |                                                          |
|------------------------------------------|----------------------------------------------------------|
| <u>14.1. UN number or ID number:</u>     | No dangerous good in sense of this transport regulation. |
| <u>14.2. UN proper shipping name:</u>    | No dangerous good in sense of this transport regulation. |
| <u>14.3. Transport hazard class(es):</u> | No dangerous good in sense of this transport regulation. |
| <u>14.4. Packing group:</u>              | 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. Maritime transport in bulk according to IMO instruments

not applicable

## SECTION 15: Regulatory information

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

#### EU regulatory information

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Restrictions on use (REACH, annex XVII):

Entry 75

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

#### 15.2. Chemical safety assessment

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

### SECTION 16: Other information

#### Abbreviations and acronyms

ADN: Accord européen relatif au transport international des marchandises Dangereuses par voie de Navigation  
(European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)  
ADR: Accord européen sur le transport des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road)  
CAS: Chemical Abstracts Service  
CLP: Classification, Labeling and Packaging  
DMEL: Derived Minimal Effect level  
DNEL: Derived No Effect Level  
EC50: Effective concentration, 50%  
IATA: International Air Transport Association  
IATA-DGR: Dangerous Goods Regulations (DRG) for the air transport (IATA)  
ICAO: International Civil Aviation Organization  
IC50: Inhibitory concentration, 50%  
IMDG: International Maritime Code for Dangerous Goods  
LC50: Lethal concentration, 50%  
LD50: Lethal dose, 50%  
NOEC: No Observed Effect Concentration  
OECD: Organisation for Economic Co-operation and Development  
PBT: persistent, bioaccumulative and toxic  
vPvB: very persistent and very bioaccumulative  
PNEC: Predicted No Effect Concentration  
REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals  
RID: Règlement concernant le transport international ferroviaire de marchandises dangereuses (Regulations Concerning the International Carriage of Dangerous Goods by Rail)  
VOC: Volatile organic compound  
Aquatic Acute 1: Acute aquatic hazard, Category 1  
Aquatic Chronic 1: Long-term aquatic hazard, Category 1

#### Key literature references and sources for data

Website European Chemicals Agency: <https://echa.europa.eu>  
Data sources: Supplier

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#### 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 relevant ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*