





# Safety Data Sheet

according to Regulation (EC) No 1907/2006

## MIT-SP, MIT-SPE Plus, Comp. A

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|           |   |
|-----------|---|
| P280      | Wear protective gloves/protective clothing/eye protection/face protection.                            |
| P302+P352 | IF ON SKIN: Wash with plenty of water.  |
| P333+P313 | If skin irritation or rash occurs: Get medical advice/attention.                                      |
| P337+P313 | If eye irritation persists: Get medical advice/attention.   |
| P501      | Dispose of contents/container to in accordance with local/regional/national/international regulation. |

### 2.3. Other hazards

No information available.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

#### Hazardous components

| CAS No     | Chemical name   | Quantity     |                  |  |
|------------|---|--------------|------------------|--|
|            | EC No   | Index No     | REACH No         |  |
|            | Classification according to Regulation (EC) No. 1272/2008 [CLP]   |              |                  |  |
| 2082-81-7  | tetramethylene dimethacrylate   | 15 - < 20 %  |                  |  |
|            | 218-218-1   |              | 01-2119967415-30 |  |
|            | Skin Sens. 1B; H317   |              |                  |  |
| 25013-15-4 | Vinyltoluene  | 5 - < 10 %   |                  |  |
|            | 246-562-2   |              | 01-2119622074-50 |  |
|            | Flam. Liq. 3, Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2, Asp. Tox. 1, Aquatic Chronic 3; H226 H332 H315 H319 H304 H412  |              |                  |  |
| 97-90-5    | ethylene dimethacrylate   | 1 - < 5 %    |                  |  |
|            | 202-617-2   | 607-114-00-5 |                  |  |
|            | STOT SE 3, Skin Sens. 1; H335 H317  |              |                  |  |
| 27813-02-1 | Methacrylic acid, monoester with propane-1,2-diol   | 1 - < 5 %    |                  |  |
|            | 248-666-3   |              | 01-2119490226-37 |  |
|            | Eye Irrit. 2, Skin Sens. 1; H319 H317   |              |                  |  |
| 3077-12-1  | N,N-Bis(2-hydroxyethyl)-p-toluidin  | 1 - < 5 %    |                  |  |
|            | 221-359-1   |              |                  |  |
|            | Acute Tox. 4, Skin Irrit. 2, Eye Dam. 1; H302 H315 H318   |              |                  |  |
| 38668-48-3 | 1,1'-(p-Tolylimino)dipropan-2-ol  | < 1 %        |                  |  |
|            | 254-075-1   |              |                  |  |
|            | Acute Tox. 2, Eye Irrit. 2, Aquatic Chronic 3; H300 H319 H412   |              |                  |  |
| 130-15-4   | 1,4-naphthoquinone  | < 0.1 %      |                  |  |
|            | 204-977-6   |              |                  |  |
|            | Acute Tox. 2, Acute Tox. 3, Acute Tox. 3, Skin Corr. 1C, Eye Irrit. 2, Skin Sens. 1A, STOT SE 3, Aquatic Acute 1, Aquatic Chronic 1; H330 H311 H301 H314 H319 H317 H335 H400 H410 |              |                  |  |

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

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### General information

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

#### After inhalation

Provide fresh air. When in doubt or if symptoms are observed, get medical advice.



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#### **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**

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

#### **After ingestion**

Rinse mouth immediately and drink plenty of water.

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

Allergic reactions

#### **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**

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

##### **Unsuitable extinguishing media**

Full water jet  
Foam.

#### **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.

#### **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**

Provide adequate ventilation. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Use personal protection equipment.

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

Do not allow to enter into surface water or drains.

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

Take up mechanically. Treat the recovered material as prescribed in the section on waste disposal.

#### **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.



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When using do not eat, drink or smoke.  
Wash hands before breaks and after work.

**Advice on protection against fire and explosion**

No special fire protection measures are necessary.

**7.2. Conditions for safe storage, including any incompatibilities****Requirements for storage rooms and vessels**

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

**Advice on storage compatibility**

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

**Further information on storage conditions**

storage temperature : 5 - 25°C

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

Adhesive mortar for fastening elements A-component (resin)

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters****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       |
| 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       |
| 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       |

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#### PNEC values

| CAS No   | Substance   | Value         |
|--|---|---------------|
| Environmental compartment                        |   |               |
| 2082-81-7  | tetramethylene dimethacrylate                     |               |
| Freshwater                                       |   | 0,087 mg/l    |
| Marine water                                     |   | 0,0087 mg/l   |
| Freshwater sediment                              |   | 3,12 mg/kg    |
| Marine sediment                                  |   | 0,312 mg/kg   |
| Micro-organisms in sewage treatment plants (STP) |   | 20 mg/l       |
| Soil   |   | 0,573 mg/kg   |
| 27813-02-1                                       | Methacrylic acid, monoester with propane-1,2-diol |               |
| Freshwater                                       |   | 0,904 mg/l    |
| Marine water                                     |   | 0,904 mg/l    |
| Freshwater sediment                              |   | 6,28 mg/kg    |
| Marine sediment                                  |   | 6,28 mg/kg    |
| Micro-organisms in sewage treatment plants (STP) |   | 10 mg/l       |
| Soil   |   | 0,727 mg/kg   |
| 38668-48-3                                       | 1,1'-(p-Tolylimino)dipropan-2-ol                  |               |
| Freshwater                                       |   | 0,017 mg/l    |
| Marine water                                     |   | 0,0017 mg/l   |
| Freshwater sediment                              |   | 0,0782 mg/kg  |
| Marine sediment                                  |   | 0,00782 mg/kg |
| Micro-organisms in sewage treatment plants (STP) |   | 199,5 mg/l    |
| Soil   |   | 0,005 mg/kg   |

#### 8.2. Exposure controls



##### Protective and hygiene measures

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat or drink.

##### Eye/face protection

Wear eye/face protection.

##### Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. 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.

Wearing time with occasional contact (splashes): 0,4mm NBR (Nitrile rubber) >480min (EN374)

Wearing time with permanent contact 0,5mm NBR (Nitrile rubber) >480min (EN374)

##### Skin protection

Wear suitable protective clothing.

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**Respiratory protection**

In case of inadequate ventilation wear respiratory protection.

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

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

**Changes in the physical state**

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

**Flammability**

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

**Auto-ignition temperature**

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

**Oxidizing properties**

Not oxidizing.  
Vapour pressure: not determined  
Density (at 20 °C): 1,72 g/cm<sup>3</sup>  
Water solubility: insoluble

**Solubility in other solvents**

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

**9.2. Other information**

Solid content: not determined

**SECTION 10: Stability and reactivity****10.1. Reactivity**

No hazardous reaction when handled and stored according to provisions.

**10.2. Chemical stability**

The product is stable under storage at normal ambient temperatures.

**10.3. Possibility of hazardous reactions**

No known hazardous reactions.

**10.4. Conditions to avoid**

none

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**10.5. Incompatible materials**

No information available.

**10.6. Hazardous decomposition products**

No known hazardous decomposition products.

**SECTION 11: Toxicological information****11.1. Information on toxicological effects****Acute toxicity**

| CAS No     | Chemical name                                     |                      |         |        |        |
|------------|---|----------------------|---------|--------|--------|
|            | Exposure route                                    | Dose                 | Species | Source | Method |
| 2082-81-7  | tetramethylene dimethacrylate                     |                      |         |        |        |
|            | oral  | LD50 >5000 mg/kg     | Rat     |        |        |
|            | dermal  | LD50 >3000 mg/kg     | Rabbit  |        |        |
| 25013-15-4 | Vinyltoluene                                      |                      |         |        |        |
|            | oral  | LD50 2000-5000 mg/kg | Rat     |        |        |
|            | dermal  | LD50 2000-5000 mg/kg | Rabbit  |        |        |
|            | inhalative vapour                                 | LC50 17,8 mg/l       | Rat     |        |        |
|            | inhalative aerosol                                | ATE 1,5 mg/l         |         |        |        |
| 27813-02-1 | Methacrylic acid, monoester with propane-1,2-diol |                      |         |        |        |
|            | oral  | LD50 11200 mg/kg     | Rat     |        |        |
|            | dermal  | LD50 > 5000 mg/kg    | Rabbit  |        |        |
| 3077-12-1  | N,N-Bis(2-hydroxyethyl)-p-toluidin                |                      |         |        |        |
|            | oral  | LD50 > 300 mg/kg     | Rat     |        |        |
| 38668-48-3 | 1,1'-(p-Tolylimino)dipropen-2-ol                  |                      |         |        |        |
|            | oral  | LD50 27,5 mg/kg      | Rat     |        |        |
|            | dermal  | LD50 >2000 mg/kg     |         |        |        |
| 130-15-4   | 1,4-naphthoquinone                                |                      |         |        |        |
|            | oral  | LD50 190 mg/kg       | Rat     |        |        |
|            | dermal  | LD50 202 mg/kg       | Rat     |        |        |
|            | inhalative vapour                                 | ATE 0,5 mg/l         |         |        |        |
|            | inhalative aerosol                                | LC50 46 mg/l         | Rat     |        |        |

**Additional information on tests**

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

**Further information**

The toxicity data listed pertaining to the ingredients are intended for those working in the medicinal professions, experts for occupational health and safety and toxicologists. The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials.



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### SECTION 12: Ecological information

#### 12.1. Toxicity

The product is not: Ecotoxic.

| CAS No     | Chemical name                                     |                  |           |                                      |        |        |
|------------|---|------------------|-----------|--------------------------------------|--------|--------|
|            | Aquatic toxicity                                  | Dose             | [h]   [d] | Species                              | Source | Method |
| 2082-81-7  | tetramethylene dimethacrylate                     |                  |           |                                      |        |        |
|            | Acute fish toxicity                               | LC50 32,5 mg/l   | 96 h      |                                      |        |        |
|            | Algae toxicity                                    | NOEC 2,11 mg/l   | 3 d       |                                      |        |        |
|            | Crustacea toxicity                                | NOEC 5,09 mg/l   | 21 d      |                                      |        |        |
|            | Acute bacteria toxicity                           | (32,5 mg/l)      |           |                                      |        |        |
| 25013-15-4 | Vinyltoluene                                      |                  |           |                                      |        |        |
|            | Acute fish toxicity                               | LC50 5,2 mg/l    | 96 h      | Pimephales promelas (fathead minnow) |        |        |
|            | Acute algae toxicity                              | ErC50 2,6 mg/l   | 72 h      |                                      |        |        |
|            | Acute crustacea toxicity                          | EC50 1,3 mg/l    | 48 h      |                                      |        |        |
|            | Fish toxicity                                     | NOEC 2,6 mg/l    | 4 d       | Pimephales promelas (fathead minnow) |        |        |
|            | Algae toxicity                                    | NOEC 1,6 mg/l    | 3 d       |                                      |        |        |
|            | Crustacea toxicity                                | NOEC 0,81 mg/l   | 2 d       |                                      |        |        |
| 27813-02-1 | Methacrylic acid, monoester with propane-1,2-diol |                  |           |                                      |        |        |
|            | Acute fish toxicity                               | LC50 379 mg/l    | 96 h      |                                      |        |        |
|            | Acute algae toxicity                              | ErC50 >97,2 mg/l | 72 h      |                                      |        |        |
|            | Acute crustacea toxicity                          | EC50 >143 mg/l   | 48 h      |                                      |        |        |
|            | Algae toxicity                                    | NOEC >97,2 mg/l  |           |                                      |        |        |
|            | Crustacea toxicity                                | NOEC 45,2 mg/l   | 21 d      |                                      |        |        |
| 3077-12-1  | N,N-Bis(2-hydroxyethyl)-p-toluidin                |                  |           |                                      |        |        |
|            | Acute fish toxicity                               | LC50 735 mg/l    | 96 h      |                                      |        |        |
|            | Acute crustacea toxicity                          | EC50 94,4 mg/l   | 48 h      |                                      |        |        |
| 130-15-4   | 1,4-naphthoquinone                                |                  |           |                                      |        |        |
|            | Algae toxicity                                    | NOEC 0,011 mg/l  |           |                                      |        |        |

#### 12.2. Persistence and degradability

The product has not been tested.

| CAS No     | Chemical name                                     |       |    |        |
|------------|---|-------|----|--------|
|            | Method  | Value | d  | Source |
|            | Evaluation  |       |    |        |
| 2082-81-7  | tetramethylene dimethacrylate                     |       |    |        |
|            | OECD 310  | 84%   | 28 |        |
| 27813-02-1 | Methacrylic acid, monoester with propane-1,2-diol |       |    |        |
|            | OECD 310  | 81%   | 28 |        |



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**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                       | 3,58    |
| 3077-12-1  | N,N-Bis(2-hydroxyethyl)-p-toluidin | 1,09    |
| 38668-48-3 | 1,1'-(p-Tolylimino)dipropan-2-ol   | 2,1     |
| 130-15-4   | 1,4-naphthoquinone                 | 1,8     |

**BCF**

| CAS No     | Chemical name | BCF  | Species | Source |
|------------|---------------|------|---------|--------|
| 25013-15-4 | Vinyltoluene  | <500 |         |        |

**12.4. Mobility in soil**

The product has not been tested.

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

The product has not been tested.

**12.6. Other adverse effects**

No information available.

**Further information**

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

**SECTION 13: Disposal considerations****13.1. Waste treatment methods****Advice on disposal**

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

**Waste disposal number of waste from residues/unused products**

080409 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU of adhesives and sealants (including waterproofing products); waste adhesives and sealants containing organic solvents or other hazardous substances; hazardous waste

**Waste disposal number of used product**

080409 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU of adhesives and sealants (including waterproofing products); waste adhesives and sealants containing organic solvents or other hazardous substances; hazardous waste

**Waste disposal number of contaminated packaging**

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by hazardous substances; hazardous waste

**Contaminated packaging**

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

**SECTION 14: Transport information**

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**Land transport (ADR/RID)**

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

**Inland waterways transport (ADN)**

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

**Marine transport (IMDG)**

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

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

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

**14.5. Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: no

**14.6. Special precautions for user**

No information available.

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

not applicable

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulatory information**

2004/42/EC (VOC): 48,16 g/l

**Additional information**

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

**National regulatory information**

Employment restrictions: Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).  
Water contaminating class (D): 2 - clearly water contaminating

**15.2. Chemical safety assessment**

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

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

This data sheet contains changes from the previous version in section(s): 16.

**Abbreviations and acronyms**

ADR: Accord européen sur le transport des marchandises dangereuses par route

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

ATE: Acute Toxicity Estimates

CAS: Chemical Abstracts Service

CLP: Classification, Labeling and Packaging

DMEL: Derived Minimal Effect level

DNEL: Derived No Effect Level

EC50: Effective concentration, 50%

ErC50: EC50 in terms of reduction of growth rate

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

IATA: International Air Transport Association

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

**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.                                 |
| H304 | May be fatal if swallowed and enters airways.         |
| H311 | Toxic in contact with skin.                           |
| H314 | Causes severe skin burns and eye damage.              |
| H315 | Causes skin irritation.                               |
| H317 | May cause an allergic skin reaction.                  |
| H318 | Causes serious eye damage.                            |
| H319 | Causes serious eye irritation.                        |
| H330 | Fatal if inhaled.                                     |
| H332 | Harmful if inhaled.                                   |
| H335 | May cause respiratory irritation.                     |
| H400 | Very toxic to aquatic life.                           |
| H410 | Very toxic to aquatic life with long lasting effects. |
| H412 | Harmful to aquatic life with long lasting effects.    |

**Further Information**

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

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



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

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**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: | Mungo Befestigungstechnik AG |                         |
| Street:       | Bornfeldstraße 2             |                         |
| Place:        | CH-4600 Olten                |                         |
| Telephone:    | +41 62 2067575               | Telefax: +41 62 2067585 |
| e-mail:       | mungo@mungo.swiss            |                         |
| Internet:     | www.mungo.swiss              |                         |

**1.4. Emergency telephone number:**

Schweiz: 145  
Int.: +41 44 251 51 51 (Schweizerisches Toxikologisches Informationszentrum - 24 h)

**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Regulation (EC) No. 1272/2008**

Hazard categories:  
Respiratory or skin sensitisation: Skin Sens. 1  
Hazard Statements:  
Causes serious eye irritation.  
May cause an allergic skin reaction.

**2.2. Label elements****Regulation (EC) No. 1272/2008****Hazard components for labelling**

dibenzoyl peroxide; benzoyl peroxide

**Signal word:** Warning**Pictograms:****Hazard statements**

H319 Causes serious eye irritation.  
H317 May cause an allergic skin reaction.

**Precautionary statements**

P101 If medical advice is needed, have product container or label at hand.  
P102 Keep out of reach of children.  
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P363 Wash contaminated clothing before reuse.  
P501 Dispose of contents/container to in accordance with local/regional/national/international regulation.



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**2.3. Other hazards**

This substance meets the PBT criteria of REACH, annex XIII.

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

| CAS No  | Chemical name   |              |                  | Quantity    |
|---------|---|--------------|------------------|-------------|
|         | EC No   | Index No     | REACH No         |             |
|         | Classification according to Regulation (EC) No. 1272/2008 [CLP]   |              |                  |             |
| 94-36-0 | dibenzoyl peroxide; benzoyl peroxide  |              |                  | 10 - < 15 % |
|         | 202-327-6   | 617-008-00-0 | 01-2119511472-50 |             |
|         | Org. Perox. B, Eye Irrit. 2, Skin Sens. 1, Aquatic Acute 1, Aquatic Chronic 1; H241 H319 H317 H400 H410 |              |                  |             |

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

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

Change contaminated, saturated clothing.

**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**

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

**After ingestion**

Rinse mouth immediately and drink plenty of water.

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

Allergic reactions

**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**

Co-ordinate fire-fighting measures to the fire surroundings.

Extinguishing powder

Water spray jet

**Unsuitable extinguishing media**

Full water jet

Foam.

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

Pyrolysis products, toxic

Carbon monoxide.



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#### **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.

#### **Additional information**

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

### **SECTION 6: Accidental release measures**

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

Provide adequate ventilation.  
Use personal protection equipment.  
Special danger of slipping by leaking/spilling product.

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

Do not allow to enter into surface water or drains.  
In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

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

Take up mechanically.  
Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).  
Treat the recovered material as prescribed in the section on waste disposal.

#### **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.  
When using do not eat, drink or smoke.  
Use protective skin cream before handling the product.

##### **Advice on protection against fire and explosion**

No special fire protection measures are necessary.

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

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

Keep container tightly closed.  
Keep/Store only in original container.

##### **Advice on storage compatibility**

Do not use for products which come into contact with the food stuffs.  
Store in a well-ventilated place. Keep cool.

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

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

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

see section 1.2

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

#### **8.1. Control parameters**

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#### Exposure limits (EH40)

| CAS No  | Substance          | ppm | mg/m <sup>3</sup> | fibres/ml | Category      | Origin |
|---------|--------------------|-----|-------------------|-----------|---------------|--------|
| 94-36-0 | Dibenzoyl peroxide | -   | 5                 |           | TWA (8 h)     | WEL    |
|         |                    | -   | -                 |           | STEL (15 min) | WEL    |

#### DNEL/DMEL values

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

#### PNEC values

| CAS No              | Substance                            | Value         |
|---------------------|--------------------------------------|---------------|
| 94-36-0             | dibenzoyl peroxide; benzoyl peroxide |               |
| Freshwater          |                                      | 0,00002 mg/l  |
| Marine water        |                                      | 0,000002 mg/l |
| Freshwater sediment |                                      | 0,013 mg/kg   |
| Marine sediment     |                                      | 0,001 mg/kg   |

#### 8.2. Exposure controls



##### Protective and hygiene measures

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat or drink.

##### Eye/face protection

Suitable eye protection: Wear eye/face protection.

##### Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. 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.

Wearing time with occasional contact (splashes): 0,4mm NBR (Nitrile rubber) >480min (EN374)

Wearing time with permanent contact 0,5mm NBR (Nitrile rubber) >480min (EN374)

##### Skin protection

Wear suitable protective clothing.

##### Respiratory protection

In case of inadequate ventilation wear respiratory protection.



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**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

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

**Changes in the physical state**

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

**Flammability**

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

**Auto-ignition temperature**

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

**Oxidizing properties**

|                                   |                        |
|-----------------------------------|------------------------|
| Not oxidizing.                    |                        |
| Available oxygen content (%) < 1% |                        |
| no classification                 |                        |
| Vapour pressure:                  | not determined         |
| Density (at 20 °C):               | 1,59 g/cm <sup>3</sup> |
| Water solubility:                 | insoluble              |

**Solubility in other solvents**

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

**9.2. Other information**

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

**SECTION 10: Stability and reactivity****10.1. Reactivity**

see section 10.3

**10.2. Chemical stability**

The product is stable under storage at normal ambient temperatures.

**10.3. Possibility of hazardous reactions**

Violent reaction with: Oxidising agent

**10.4. Conditions to avoid**

see section 7.2





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**10.5. Incompatible materials**

Oxidising agent, strong

**10.6. Hazardous decomposition products**

No known hazardous decomposition products.

**SECTION 11: Toxicological information****11.1. Information on toxicological effects****Acute toxicity**

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

**Additional information on tests**

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

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

The product is not: Ecotoxic.

OECD 201 (Desmodesmus subspicatus. )

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

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

OECD 202 (Daphnia magna)

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

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

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

OECD 203 (Danio rerio)

LC0/NOEC : 250 mg/l

LC50 : &gt; 500 mg/l

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

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

**12.2. Persistence and degradability**

The product has not been tested.

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| CAS No  | Chemical name                                       | Method     | Value | d  | Source |
|---------|---|------------|-------|----|--------|
|         |   | Evaluation |       |    |        |
| 94-36-0 | dibenzoyl peroxide; benzoyl 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; benzoyl peroxide | 3,2     |

**12.4. Mobility in soil**

The product has not been tested.

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

The product has not been tested.

**12.6. Other adverse effects**

No information available.

**Further information**

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

**SECTION 13: Disposal considerations****13.1. Waste treatment methods****Advice on disposal**

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

**Waste disposal number of waste from residues/unused products**

080409 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU of adhesives and sealants (including waterproofing products); waste adhesives and sealants containing organic solvents or other hazardous substances; hazardous waste

**Waste disposal number of used product**

080409 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU of adhesives and sealants (including waterproofing products); waste adhesives and sealants containing organic solvents or other hazardous substances; hazardous waste

**Waste disposal number of contaminated packaging**

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by hazardous substances; hazardous waste

**Contaminated packaging**

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

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



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

**Inland waterways transport (ADN)**

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

**Marine transport (IMDG)**

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

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

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

**14.5. Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: no

**14.6. Special precautions for user**

No information available.

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

not applicable

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulatory information**

2004/42/EC (VOC): 68,37 g/l

**Additional information**

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

**National regulatory information**

Employment restrictions: Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

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

**15.2. Chemical safety assessment**

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

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

This data sheet contains changes from the previous version in section(s): 3,15,16.



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**Abbreviations and acronyms**

ADR: Accord européen sur le transport des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road)  
CAS: Chemical Abstracts Service  
CLP: Classification, Labeling and Packaging  
DMEL: Derived Minimal Effect level  
DNEL: Derived No Effect Level  
EC50: Effective concentration, 50%  
EINECS: European Inventory of Existing Commercial Chemical Substances  
ELINCS: European List of Notified Chemical Substances  
IATA: International Air Transport Association  
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

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

|      |   |
|------|---|
| H241 | Heating may cause a fire or explosion.                |
| H317 | May cause an allergic skin reaction.                  |
| H319 | Causes serious eye irritation.                        |
| H400 | Very toxic to aquatic life.                           |
| H410 | Very toxic to aquatic life with long lasting effects. |

**Further Information**

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

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