

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

**1915 MA structural adhesive - 1914 hardener**

Revision: 27.01.2026

Product code: 1914

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

1915 MA structural adhesive - 1914 hardener

**Further trade names**

Product 1915: 1913 resin + 1914 Hardener

Product group:

UFI: 7A95-W0V2-400M-WK8F

**1.2. Relevant identified uses of the substance or mixture and uses advised against****Use of the substance/mixture**

Adhesives and sealants

**Uses advised against**

No information available.

**1.3. Details of the supplier of the safety data sheet****Manufacturer**

Company name: Kisling AG  
Street: Motorenstrasse 102  
Place: CH-8620 Wetzikon  
Telephone: +41 58 272 0 272  
E-mail: customerservice@kisling.com  
Contact person: Product Compliance Telephone: +49 7940 5096 143  
E-mail (Contact person): compliance@kisling.com  
Internet: www.kisling.com

**Supplier**

Company name: Kisling (Deutschland) GmbH  
Street: Salzstraße 15  
Place: D-74676 Niedernhall  
Telephone: +49 7940 50961 61  
E-mail: customerservice@kisling.com  
Contact person: Product Compliance Telephone: +49 7940 5096 143  
E-mail Contact person: compliance@kisling.com  
Internet: www.kisling.com

**1.4. Emergency telephone number:**24 hr. emergency phone number +1 872 5888271 (KAR)  
Medicines & Poisons Info Office +356 2545 6508**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Regulation (EC) No 1272/2008**

Flam. Liq. 3; H226  
Skin Irrit. 2; H315  
Eye Irrit. 2; H319  
Skin Sens. 1; H317  
STOT SE 3; H335

Full text of hazard statements: see SECTION 16.

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

methyl methacrylate  
2-hydroxyethyl methacrylate

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 2-aminoethanol  
 Phenothiazine  
 @000000000934

**Signal word:**

Warning

**Pictograms:**

**Hazard statements**

H226 Flammable liquid and vapour.  
 H315 Causes skin irritation.  
 H317 May cause an allergic skin reaction.  
 H319 Causes serious eye irritation.  
 H335 May cause respiratory irritation.

**Precautionary statements**

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
 P261 Avoid breathing Vapour.  
 P280 Wear protective gloves and eye protection/face protection.  
 P333+P313 If skin irritation or rash occurs: Get medical advice/attention.  
 P362+P364 Take off contaminated clothing and wash it before reuse.  
 P403+P235 Store in a well-ventilated place. Keep cool.

**Labelling of packages where the contents do not exceed 125 ml**
**Signal word:**

Warning

**Pictograms:**

**Hazard statements**

H317

**Precautionary statements**

P261-P280-P333+P313-P362+P364

**2.3. Other hazards**

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

## SECTION 3: Composition/information on ingredients

**3.2. Mixtures**
**Chemical characterization**

Mixtures

**Relevant ingredients**

| CAS No  | Chemical name   |              |                  | Quantity    |
|---------|---|--------------|------------------|-------------|
|         | EC No   | Index No     | REACH No         |             |
|         | Classification (Regulation (EC) No 1272/2008)                             |              |                  |             |
| 80-62-6 | methyl methacrylate   |              |                  | 30 - < 50 % |
|         | 201-297-1   | 607-035-00-6 | 01-2119452498-28 |             |
|         | Flam. Liq. 2, Skin Irrit. 2, Skin Sens. 1, STOT SE 3; H225 H315 H317 H335 |              |                  |             |

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| CAS No   | Chemical name  |              |                  | Quantity    |
|----------|--|--------------|------------------|-------------|
|          | EC No  | Index No     | REACH No         |             |
|          | Classification (Regulation (EC) No 1272/2008)  |              |                  |             |
| 868-77-9 | 2-hydroxyethyl methacrylate  |              |                  | 30 - < 50 % |
|          | 212-782-2  | 607-124-00-X | 01-2119490169-29 |             |
|          | Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1; H315 H319 H317  |              |                  |             |
| 79-41-4  | methacrylic acid   |              |                  | 0.1 - < 1 % |
|          | 201-204-4  | 607-088-00-5 | 01-2119463884-26 |             |
|          | Acute Tox. 3, Acute Tox. 4, Acute Tox. 4, Skin Corr. 1A, Eye Dam. 1, STOT SE 3; H311 H332 H302 H314 H318 H335                                      |              |                  |             |
| 141-43-5 | 2-aminoethanol   |              |                  | 0.1 - < 1 % |
|          | 205-483-3  | 603-030-00-8 | 01-2119486455-28 |             |
|          | Acute Tox. 4, Acute Tox. 4, Acute Tox. 4, Skin Corr. 1B, Skin Sens. 1; H332 H312 H302 H314 H317  |              |                  |             |
| 92-84-2  | Phenothiazine  |              |                  | 0.1 - < 1 % |
|          | 202-196-5  |              | 01-2119488529-19 |             |
|          | Acute Tox. 4, Skin Sens. 1, STOT RE 2, Aquatic Chronic 1; H302 H317 H373 H410  |              |                  |             |
| 50-00-0  | formaldehyde   |              |                  | < 0.1 %     |
|          | 200-001-8  | 605-001-00-5 | 01-2119488953-20 |             |
|          | Carc. 1B, Muta. 2, Acute Tox. 2, Acute Tox. 4, Skin Corr. 1B, Eye Dam. 1, Skin Sens. 1A, STOT SE 3; H350 H341 H330 H302 H314 H318 H317 H335 EUH071 |              |                  |             |

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  |             |
| 80-62-6  | 201-297-1 | methyl methacrylate   | 30 - < 50 % |
|          |           | inhalation: LC50 = 29,8 mg/l (vapours); dermal: LD50 = > 5000 mg/kg; oral: LD50 = ca. 7900 mg/kg  |             |
| 868-77-9 | 212-782-2 | 2-hydroxyethyl methacrylate   | 30 - < 50 % |
|          |           | dermal: LD50 = > 5000 mg/kg; oral: LD50 = 5564 mg/kg  |             |
| 79-41-4  | 201-204-4 | methacrylic acid  | 0.1 - < 1 % |
|          |           | inhalation: ATE = 11 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists); dermal: LD50 = 500 mg/kg; oral: LD50 = 1320 mg/kg Eye Dam. 1; H318: >= 3 - 100 Eye Irrit. 2; H319: >= - < 3 STOT SE 3; H335: >= 1 - 100 |             |
| 141-43-5 | 205-483-3 | 2-aminoethanol  | 0.1 - < 1 % |
|          |           | inhalation: ATE = 11 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists); dermal: LD50 = 2504 mg/kg; oral: LD50 = 1089 mg/kg STOT SE 3; H335: >= 5 - 100  |             |
| 92-84-2  | 202-196-5 | Phenothiazine   | 0.1 - < 1 % |
|          |           | dermal: LD50 = > 2000 mg/kg; oral: LD50 = 1370 mg/kg  |             |
| 50-00-0  | 200-001-8 | formaldehyde  | < 0.1 %     |
|          |           | inhalation: ATE 100 ppm (gases); oral: ATE 500 mg/kg Skin Corr. 1B; H314: >= 25 - 100 Skin Irrit. 2; H315: >= 5 - < 25 Eye Irrit. 2; H319: >= 5 - < 25 STOT SE 3; H335: >= 5 - 100  |             |

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### General information

No special measures are necessary.

#### After inhalation

Provide fresh air.

#### After contact with skin

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Gently wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention.

#### After ingestion

Do NOT induce vomiting. Rinse mouth thoroughly with water. IF SWALLOWED: Immediately call a doctor.

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

Irritant — skin irritation and eye damage  
May cause respiratory irritation. Dyspnoea.

#### 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

alcohol resistant foam, Carbon dioxide (CO<sub>2</sub>), Dry extinguishing powder

##### Unsuitable extinguishing media

Full water jet.

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

Hazardous combustion products, Flammable vapours can accumulate in steam space of closed systems.

#### 5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing.

#### Additional information

Co-ordinate fire-fighting measures to the fire surroundings. Use water spray jet to protect personnel and to cool endangered containers. Evacuate area.

### SECTION 6: Accidental release measures

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

##### General advice

Use personal protection equipment. See protective measures under point 7 and 8.

#### 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 containment

Prevent spread over a wide area (e.g. by containment or oil barriers). Retain contaminated washing water and dispose it. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

##### For cleaning up

Soak up inert absorbent and dispose as waste requiring special attention.

#### 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 in well-ventilated areas. Keep away from sources of ignition - No smoking.  
Avoid contact with skin, eyes and clothes. People who suffer from skin sensitization problems, asthma, allergies, chronic or recurring respiratory illnesses should not be deployed in any process using this mixture.

##### Advice on general occupational hygiene

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, drink,

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smoke, sniff.

#### Further information on handling

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

Never use pressure to empty container. Do not allow to enter into surface water or drains.

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

##### Requirements for storage rooms and vessels

Keep container tightly closed and in a well-ventilated place.

##### Hints on joint storage

No special measures are necessary.

##### Further information on storage conditions

No special measures are necessary.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Occupational exposure limit values

| CAS No   | Name of agent       | ppm | mg/m <sup>3</sup> | fib/cm <sup>3</sup> | Category      | Origin |
|----------|---------------------|-----|-------------------|---------------------|---------------|--------|
| 141-43-5 | 2-Aminoethanol      | 1   | 2.5               |                     | TWA (8 h)     |        |
|          |                     | 3   | 7.6               |                     | STEL (15 min) |        |
| 50-00-0  | Formaldehyde        | 0.3 | 0.37              |                     | TWA (8 h)     |        |
|          |                     | 0.6 | 0.74              |                     | STEL (15 min) |        |
| 80-62-6  | Methyl methacrylate | 50  | -                 |                     | TWA (8 h)     |        |
|          |                     | 100 | -                 |                     | STEL (15 min) |        |

#### DNEL/DMEL values

| CAS No   | Name of agent               | Exposure route | Effect   | Value                   |
|----------|-----------------------------|----------------|----------|-------------------------|
| 80-62-6  | methyl methacrylate         |                |          |                         |
|          | Worker DNEL, long-term      | inhalation     | systemic | 348,4 mg/m <sup>3</sup> |
|          | Worker DNEL, long-term      | inhalation     | local    | 208 mg/m <sup>3</sup>   |
|          | Worker DNEL, acute          | inhalation     | local    | 416 mg/m <sup>3</sup>   |
|          | Worker DNEL, long-term      | dermal         | systemic | 13,67 mg/kg bw/day      |
|          | Worker DNEL, long-term      | dermal         | local    | 1,5 mg/cm <sup>2</sup>  |
|          | Worker DNEL, acute          | dermal         | local    | 1,5 mg/cm <sup>2</sup>  |
|          | Consumer DNEL, long-term    | inhalation     | systemic | 74,3 mg/m <sup>3</sup>  |
|          | Consumer DNEL, long-term    | inhalation     | local    | 104 mg/m <sup>3</sup>   |
|          | Consumer DNEL, acute        | inhalation     | local    | 208 mg/m <sup>3</sup>   |
|          | Consumer DNEL, long-term    | dermal         | systemic | 8,2 mg/kg bw/day        |
|          | Consumer DNEL, long-term    | dermal         | local    | 1,5 mg/cm <sup>2</sup>  |
|          | Consumer DNEL, acute        | dermal         | local    | 1,5 mg/cm <sup>2</sup>  |
|          | Consumer DNEL, long-term    | oral           | systemic | 8,2 mg/kg bw/day        |
| 868-77-9 | 2-hydroxyethyl methacrylate |                |          |                         |
|          | Worker DNEL, long-term      | inhalation     | systemic | 4.9 mg/m <sup>3</sup>   |
|          | Worker DNEL, long-term      | dermal         | systemic | 1.39 mg/kg bw/day       |
|          | Consumer DNEL, long-term    | inhalation     | systemic | 1.45 mg/m <sup>3</sup>  |
|          | Consumer DNEL, long-term    | dermal         | systemic | 0.83 mg/kg bw/day       |
|          | Consumer DNEL, long-term    | oral           | systemic | 0.83 mg/kg bw/day       |
| 79-41-4  | methacrylic acid            |                |          |                         |
|          | Worker DNEL, long-term      | inhalation     | systemic | 39.3 mg/m <sup>3</sup>  |
|          | Worker DNEL, long-term      | inhalation     | local    | 44 mg/m <sup>3</sup>    |
|          | Worker DNEL, long-term      | dermal         | systemic | 4.25 mg/kg bw/day       |
|          | Worker DNEL, long-term      | dermal         | local    | 0.38 mg/cm <sup>2</sup> |

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#### DNEL/DMEL values

| CAS No   | Name of agent            | Exposure route | Effect   | Value                   |
|----------|--------------------------|----------------|----------|-------------------------|
|          | DNEL type                |                |          |                         |
|          | Consumer DNEL, long-term | inhalation     | systemic | 11.7 mg/m <sup>3</sup>  |
|          | Consumer DNEL, long-term | inhalation     | local    | 8.8 mg/m <sup>3</sup>   |
|          | Consumer DNEL, long-term | dermal         | systemic | 5.35 mg/kg bw/day       |
|          | Consumer DNEL, long-term | dermal         | local    | 0.23 mg/cm <sup>2</sup> |
|          | Consumer DNEL, long-term | oral           | systemic | 5.35 mg/kg bw/day       |
| 141-43-5 | 2-aminoethanol           |                |          |                         |
|          | Worker DNEL, long-term   | inhalation     | systemic | 1 mg/m <sup>3</sup>     |
|          | Worker DNEL, long-term   | inhalation     | local    | 0.51 mg/m <sup>3</sup>  |
|          | Worker DNEL, long-term   | dermal         | systemic | 3 mg/kg bw/day          |
|          | Consumer DNEL, long-term | inhalation     | systemic | 0.18 mg/m <sup>3</sup>  |
|          | Consumer DNEL, long-term | inhalation     | local    | 0.28 mg/m <sup>3</sup>  |
|          | Consumer DNEL, long-term | dermal         | systemic | 1.5 mg/kg bw/day        |
|          | Consumer DNEL, long-term | oral           | systemic | 1.5 mg/kg bw/day        |
| 92-84-2  | Phenothiazine            |                |          |                         |
|          | Worker DNEL, long-term   | inhalation     | systemic | 0.53 mg/m <sup>3</sup>  |
|          | Consumer DNEL, long-term | inhalation     | systemic | 0.13 mg/m <sup>3</sup>  |
|          | Worker DNEL, long-term   | dermal         | systemic | 0.15 mg/kg bw/day       |
|          | Worker DNEL, acute       | inhalation     | systemic | 1.59 mg/m <sup>3</sup>  |
|          | Consumer DNEL, acute     | inhalation     | systemic | 0.39 mg/m <sup>3</sup>  |
|          | Consumer DNEL, long-term | dermal         | systemic | 0.08 mg/kg bw/day       |
|          | Consumer DNEL, long-term | oral           | systemic | 0.08 mg/kg bw/day       |
|          | Consumer DNEL, acute     | oral           | systemic | 0.24 mg/kg bw/day       |
| 50-00-0  | formaldehyde             |                |          |                         |
|          | Worker DNEL, long-term   | inhalation     | systemic | 9 mg/m <sup>3</sup>     |
|          | Worker DNEL, long-term   | inhalation     | local    | 0.375 mg/m <sup>3</sup> |
|          | Worker DNEL, acute       | inhalation     | local    | 0.75 mg/m <sup>3</sup>  |
|          | Worker DNEL, long-term   | dermal         | systemic | 240 mg/kg bw/day        |
|          | Consumer DNEL, long-term | inhalation     | systemic | 3.2 mg/m <sup>3</sup>   |
|          | Consumer DNEL, long-term | inhalation     | local    | 0.1 mg/m <sup>3</sup>   |
|          | Consumer DNEL, long-term | dermal         | systemic | 102 mg/kg bw/day        |
|          | Consumer DNEL, long-term | oral           | systemic | 4.1 mg/kg bw/day        |

#### PNEC values

| CAS No   | Name of agent                                    | Value      |
|----------|--|------------|
|          | Environmental compartment                        |            |
| 80-62-6  | methyl methacrylate                              |            |
|          | Freshwater                                       | 0,94 mg/l  |
|          | Freshwater (intermittent releases)               | 0,69 mg/l  |
|          | Marine water                                     | 0,094 mg/l |
|          | Freshwater sediment                              | 10,2 mg/kg |
|          | Marine sediment                                  | 1,02 mg/kg |
|          | Micro-organisms in sewage treatment plants (STP) | 10 mg/l    |
|          | Soil   | 1,48 mg/kg |
| 868-77-9 | 2-hydroxyethyl methacrylate                      |            |
|          | Freshwater                                       | 0.482 mg/l |
|          | Freshwater (intermittent releases)               | 1 mg/l     |
|          | Marine water                                     | 0.048 mg/l |
|          | Freshwater sediment                              | 3.79 mg/kg |
|          | Marine sediment                                  | 3.79 mg/kg |
|          | Micro-organisms in sewage treatment plants (STP) | 10 mg/l    |

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#### PNEC values

| CAS No   | Name of agent    | Value       |
|--|------------------|-------------|
| Environmental compartment                        |                  |             |
| Soil   |                  | 0.476 mg/kg |
| 79-41-4  | methacrylic acid |             |
| Freshwater                                       |                  | 0.82 mg/l   |
| Freshwater (intermittent releases)               |                  | 0.45 mg/l   |
| Marine water                                     |                  | 0.082 mg/l  |
| Freshwater sediment                              |                  | 3.09 mg/kg  |
| Marine sediment                                  |                  | 0.309 mg/kg |
| Micro-organisms in sewage treatment plants (STP) |                  | 100 mg/l    |
| Soil   |                  | 0.137 mg/kg |
| 141-43-5   | 2-aminoethanol   |             |
| Freshwater                                       |                  | 0.07 mg/l   |
| Freshwater (intermittent releases)               |                  | 0.028 mg/l  |
| Marine water                                     |                  | 0.007 mg/l  |
| Freshwater sediment                              |                  | 0.357 mg/kg |
| Marine sediment                                  |                  | 0.036 mg/kg |
| Micro-organisms in sewage treatment plants (STP) |                  | 100 mg/l    |
| Soil   |                  | 1.29 mg/kg  |
| 92-84-2  | Phenothiazine    |             |
| Freshwater                                       |                  | 0 mg/l      |
| Freshwater (intermittent releases)               |                  | 0.002 mg/l  |
| Marine water                                     |                  | 0 mg/l      |
| Freshwater sediment                              |                  | 0.019 mg/kg |
| Marine sediment                                  |                  | 0.002 mg/kg |
| Micro-organisms in sewage treatment plants (STP) |                  | 0.054 mg/l  |
| Soil   |                  | 0.023 mg/kg |

#### 8.2. Exposure controls



##### Appropriate engineering controls

Provide adequate ventilation as well as local exhaust at critical locations.

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

###### Eye/face protection

Wear eye/face protection.

###### Hand protection

Tested protective gloves must be worn (EN ISO 374)

Breakthrough times and swelling properties of the material must be taken into consideration.

NBR (Nitrile rubber) 0,4 mm, Breakthrough time: 480 min

###### Skin protection

Avoid contact with skin, eyes and clothes.

###### Respiratory protection

In case of inadequate ventilation wear respiratory protection. Filter type: A/P2

###### Environmental exposure controls

Do not allow to enter into surface water or drains.

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

|   |                           |
|---|---------------------------|
| Physical state:   | Liquid                    |
| Colour:   | green                     |
| Odour:  | characteristic            |
| Odour threshold:  | not determined            |
| Melting point/freezing point:                             | not determined            |
| Boiling point or initial boiling point and boiling range: | >100 °C                   |
| Flammability:   | not applicable            |
| Lower explosion limits:                                   | 2.1 vol. %                |
| Upper explosion limits:                                   | 12.5 vol. %               |
| Flash point:  | 37 °C                     |
| Auto-ignition temperature:                                | 438 °C                    |
| Decomposition temperature:                                | not determined            |
| pH-Value:   | not determined            |
| Viscosity / kinematic:                                    | not determined            |
| Water solubility:   | practically insoluble     |
| Solubility in other solvents                              | not determined            |
| Partition coefficient n-octanol/water:                    | not determined            |
| Vapour pressure:  | not determined            |
| Density (at 20 °C):                                       | 0.9-1.1 g/cm <sup>3</sup> |
| Relative density:   | not determined            |
| Relative vapour density:                                  | not determined            |

**9.2. Other information****Information with regard to physical hazard classes**

## Explosive properties

The product is not: Explosive.

## Oxidizing properties

not determined

**Other safety characteristics**

Evaporation rate: not determined

Solid content: not determined

Viscosity / dynamic (at 25 °C): 15.000 mPa·s

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

No known hazardous reactions.

**10.2. Chemical stability**

The product is chemically stable under recommended conditions of storage, use and temperature.

**10.3. Possibility of hazardous reactions**

Thermal decomposition can lead to the escape of irritating gases and vapours.

Vapours can form explosive mixtures with air.

**10.4. Conditions to avoid**

No information available.

**10.5. Incompatible materials**

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No information available.

#### 10.6. Hazardous decomposition products

No known hazardous decomposition products.

#### Further information

No data available

### SECTION 11: Toxicological information

#### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

##### Toxicocinetics, metabolism and distribution

No data available

##### Acute toxicity

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

##### ATEmix calculated

ATE (oral) &gt; 2000 mg/kg; ATE (dermal) &gt; 5000 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                                   |
| 80-62-6  | methyl methacrylate         |                     |         |  |  |
|          | oral                        | LD50 ca. 7900 mg/kg | Rat     | J. Ind. Hyg. Toxicol. 23: 343-351 (1941) | Study to assess the acute oral toxicity  |
|          | dermal                      | LD50 > 5000 mg/kg   | Rabbit  | Study report (1982)                      | OECD Guideline 402                       |
|          | inhalation (4 h) vapour     | LC50 29,8 mg/l      | Rat     | J. Dent. Res. 59: 1074 (1980)            | Study to assess the acute inhalative tox |
| 868-77-9 | 2-hydroxyethyl methacrylate |                     |         |  |  |
|          | oral                        | LD50 5564 mg/kg     | Rat     | Study report (1977)                      | other: Appraisal of the safety of chem b |
|          | dermal                      | LD50 > 5000 mg/kg   | Rabbit  | Study report (1982)                      | The test substance, as received, was hel |
| 79-41-4  | methacrylic acid            |                     |         |  |  |
|          | oral                        | LD50 1320 mg/kg     | Rat     | Study report (1977)                      | OECD Guideline 401                       |
|          | dermal                      | LD50 500 mg/kg      | Rabbit  | Pre-supplier/manufa cturer               |  |
|          | inhalation vapour           | ATE 11 mg/l         |         |  | OECD 403                                 |
|          | inhalation dust/mist        | ATE 1,5 mg/l        |         |  |  |
| 141-43-5 | 2-aminoethanol              |                     |         |  |  |
|          | oral                        | LD50 1089 mg/kg     | Rat     | Study report (1988)                      | OECD Guideline 401                       |
|          | dermal                      | LD50 2504 mg/kg     | Rabbit  | Study report (1988)                      | OECD Guideline 402                       |
|          | inhalation vapour           | ATE 11 mg/l         |         |  |  |
|          | inhalation dust/mist        | ATE 1,5 mg/l        |         |  |  |
| 92-84-2  | Phenothiazine               |                     |         |  |  |
|          | oral                        | LD50 1370 mg/kg     | Rat     | Study report (1977)                      | other: As outlined in "Appraisal of the  |
|          | dermal                      | LD50 > 2000 mg/kg   | Rat     | Study report (2010)                      | OECD Guideline 402                       |
| 50-00-0  | formaldehyde                |                     |         |  |  |
|          | oral                        | ATE 500 mg/kg       |         |  |  |
|          | inhalation gas              | ATE 100 ppm         |         |  |  |

#### Irritation and corrosivity

Skin corrosion/irritation: Causes skin irritation.

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Serious eye damage/eye irritation: Causes serious eye irritation.

#### Sensitising effects

May cause an allergic skin reaction. (methyl methacrylate; 2-hydroxyethyl methacrylate; 2-aminoethanol; Phenothiazine; formaldehyde)

#### 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

May cause respiratory irritation. (methyl methacrylate)

#### 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.

#### Information on likely routes of exposure

No data available

#### Specific effects in experiment on an animal

No data available

#### Additional information on tests

No data available

#### Practical experience

May be harmful if swallowed, in contact with skin or if inhaled.

### 11.2. Information on other hazards

#### Other information

No data available

#### Further information

No data available

## SECTION 12: Ecological information

### 12.1. Toxicity

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

| CAS No  | Chemical name            |                    |        |                          |                            |                    |
|---------|--------------------------|--------------------|--------|--------------------------|----------------------------|--------------------|
|         | Aquatic toxicity         | Dose               | [h][d] | Species                  | Source                     | Method             |
| 80-62-6 | methyl methacrylate      |                    |        |                          |                            |                    |
|         | Acute fish toxicity      | LC50 > 79 mg/l     | 96 h   | Oncorhynchus mykiss      | REACH Registration Dossier | EPA OTS 797.1400   |
|         | Acute algae toxicity     | ErC50 > 110 mg/l   | 72 h   | Raphidocelis subcapitata | REACH Registration Dossier | OECD Guideline 201 |
|         | Acute crustacea toxicity | EC50 69 mg/l       | 48 h   | Daphnia magna            | REACH Registration Dossier | EPA OTS 797.1300   |
|         | Fish toxicity            | NOEC 9,4 mg/l      | 35 d   | Danio rerio              | REACH Registration Dossier | OECD Guideline 210 |
|         | Crustacea toxicity       | NOEC 37 mg/l       | 21 d   | Daphnia magna            | REACH Registration Dossier | OECD Guideline 211 |
|         | Acute bacteria toxicity  | EC50 3162 mg/l ( ) | 3 h    | Activated sludge         | Publication (2008)         | ISO 8192           |

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| CAS No   | Chemical name               |                     |        |                          |  |  |
|----------|-----------------------------|---------------------|--------|--------------------------|--|--|
|          | Aquatic toxicity            | Dose                | [h][d] | Species                  | Source                                   | Method                                   |
| 868-77-9 | 2-hydroxyethyl methacrylate |                     |        |                          |  |  |
|          | Acute fish toxicity         | LC50 > 100 mg/l     | 96 h   | Oryzias latipes          | REACH Registration Dossier               | OECD Guideline 203                       |
|          | Acute algae toxicity        | ErC50 345 mg/l      | 72 h   | Raphidocelis subcapitata | REACH Registration Dossier               | OECD Guideline 201                       |
|          | Acute crustacea toxicity    | EC50 380 mg/l       | 48 h   | Daphnia magna            | REACH Registration Dossier               | OECD Guideline 202                       |
|          | Crustacea toxicity          | NOEC 24.1 mg/l      | 21 d   | Daphnia magna            | REACH Registration Dossier               | OECD Guideline 211                       |
| 79-41-4  | methacrylic acid            |                     |        |                          |  |  |
|          | Acute fish toxicity         | LC50 833 mg/l       | 96 h   | Scophthalmus maximus     | Publication (2001)                       | other: OSPAR Protocols on Methods for th |
|          | Acute algae toxicity        | ErC50 54 mg/l       | 72 h   | Raphidocelis subcapitata | Study report, unpublished, cover page mi | OECD Guideline 201                       |
|          | Acute crustacea toxicity    | EC50 > 130 mg/l     | 48 h   | Daphnia magna            | REACH Registration Dossier               | EPA OTS 797.1300                         |
|          | Fish toxicity               | NOEC 10 mg/l        | 35 d   | Danio rerio              | REACH Registration Dossier               | OECD Guideline 210                       |
|          | Crustacea toxicity          | NOEC 53 mg/l        | 21 d   | Daphnia magna            | REACH Registration Dossier               | OECD Guideline 211                       |
|          | Acute bacteria toxicity     | EC50 13500 mg/l ( ) | 3 h    | Activated sludge         | Publication (2008)                       | ISO 8192                                 |
| 141-43-5 | 2-aminoethanol              |                     |        |                          |  |  |
|          | Acute fish toxicity         | LC50 349 mg/l       | 96 h   | Cyprinus carpio          | Study report (1997)                      | other: Directive 92/69/EEC, C.1.         |
|          | Acute algae toxicity        | ErC50 2.8 mg/l      | 72 h   | Raphidocelis subcapitata | unpublished (1997)                       | OECD Guideline 201                       |
|          | Acute crustacea toxicity    | EC50 27.04 mg/l     | 48 h   | Daphnia magna            | Study report (2012)                      | OECD Guideline 202                       |
|          | Fish toxicity               | NOEC 1.24 mg/l      | 41 d   | Oryzias latipes          | unpublished (2008)                       | OECD Guideline 210                       |
|          | Crustacea toxicity          | NOEC 0.85 mg/l      | 21 d   | Daphnia magna            | unpublished (1997)                       | other: OECD 202 "Daphnia sp., Acute Immo |
| 92-84-2  | Phenothiazine               |                     |        |                          |  |  |
|          | Acute fish toxicity         | LC50 70.7 mg/l      | 96 h   | Oncorhynchus mykiss      | Study report (2010)                      | OECD Guideline 203                       |
|          | Acute algae toxicity        | ErC50 > 100 mg/l    | 72 h   | Desmodesmus subspicatus  | Study report (2010)                      | OECD Guideline 201                       |

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| CAS No  | Chemical name            |                  |        |  |  |                    |
|---------|--------------------------|------------------|--------|--|--|--------------------|
|         | Aquatic toxicity         | Dose             | [h][d] | Species  | Source                                   | Method             |
| 50-00-0 | formaldehyde             |                  |        |  |  |                    |
|         | Acute fish toxicity      | LC50 24.1 mg/l   | 96 h   | Pimephales promelas                                | Center for Lake Superior Environmental S | OECD Guideline 203 |
|         | Acute algae toxicity     | ErC50 3.48 mg/l  | 72 h   | Desmodesmus subspicatus (previous name: Scenedesmu | Ecotoxicol Environ Safety 54: 346-354 (2 | OECD Guideline 201 |
|         | Acute crustacea toxicity | EC50 5.8 mg/l    | 48 h   | Daphnia pulex                                      | Water, Air and Soil Pollution 97, 315-32 | OECD Guideline 202 |
|         | Crustacea toxicity       | NOEC >= 6.4 mg/l | 21 d   | Daphnia magna                                      | study report (2008)                      | OECD Guideline 211 |
|         | Acute bacteria toxicity  | EC50 19 mg/l ( ) | 3 h    | Activated sludge                                   | Chemosphere 14, 1239-1251 (1985)         | OECD Guideline 209 |

#### **12.2. Persistence and degradability**

No data available

#### **12.3. Bioaccumulative potential**

No data available

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

| CAS No   | Chemical name               | Log Pow  |
|----------|-----------------------------|----------|
| 80-62-6  | methyl methacrylate         | 1,38     |
| 868-77-9 | 2-hydroxyethyl methacrylate | 0.42     |
| 79-41-4  | methacrylic acid            | 0.93     |
| 141-43-5 | 2-aminoethanol              | -2.3     |
| 92-84-2  | Phenothiazine               | ca. 3.78 |
| 50-00-0  | formaldehyde                | 0.35     |

#### **BCF**

| CAS No   | Chemical name  | BCF    | Species                                       | Source               |
|----------|----------------|--------|---|----------------------|
| 141-43-5 | 2-aminoethanol | 2.5    |   | SAR and QSAR in Envi |
| 92-84-2  | Phenothiazine  | >= 310 | Cyprinus carpio                               | Study report (1983)  |
| 50-00-0  | formaldehyde   | < 1    | Paralichthys olivaceus and Sebastes schlegeli | Aquaculture 194, 253 |

#### **12.4. Mobility in soil**

No data available

#### **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.

#### **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 data available

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**SECTION 13: Disposal considerations****13.1. Waste treatment methods****Disposal recommendations**

Dispose of waste according to applicable legislation.

**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**

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

**Contaminated packaging**

Completely emptied packages can be recycled. Dispose of waste according to applicable legislation.

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

**14.1. UN number or ID number:** UN 1133  
**14.2. UN proper shipping name:** ADHESIVES  
**14.3. Transport hazard class(es):** 3  
**14.4. Packing group:** III  
Hazard label: 3



Classification code: F1  
Limited quantity: 5 L  
Excepted quantity: E1  
Transport category: 3  
Hazard No: 30  
Tunnel restriction code: D/E

**Inland waterways transport (ADN)**

**14.1. UN number or ID number:** UN 1133  
**14.2. UN proper shipping name:** Adhesives  
**14.3. Transport hazard class(es):** 3  
**14.4. Packing group:** III  
Hazard label: 3



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Classification code: F1  
 Limited quantity: 5 L  
 Excepted quantity: E1

#### Marine transport (IMDG)

**14.1. UN number or ID number:** UN 1133  
**14.2. UN proper shipping name:** ADHESIVES  
**14.3. Transport hazard class(es):** 3  
**14.4. Packing group:** III  
 Hazard label: 3



Special Provisions: 223 955  
 Limited quantity: 5 L  
 Excepted quantity: E1  
 EmS: F-E, S-D

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

**14.1. UN number or ID number:** UN 1133  
**14.2. UN proper shipping name:** ADHESIVES  
**14.3. Transport hazard class(es):** 3  
**14.4. Packing group:** III  
 Hazard label: 3



Special Provisions: A3  
 Limited quantity Passenger: 10 L  
 Passenger LQ: Y344  
 Excepted quantity: E1  
 IATA-packing instructions - Passenger: 355  
 IATA-max. quantity - Passenger: 60 L  
 IATA-packing instructions - Cargo: 366  
 IATA-max. quantity - Cargo: 220 L

#### 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

#### Other applicable information

No information available.

### SECTION 15: Regulatory information

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

##### EU regulatory information

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 28, Entry 40, Entry 72, Entry 75, Entry 77

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Information according to Directive 2012/18/EU (SEVESO III):

P5c FLAMMABLE LIQUIDS

#### 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

(EU) EINECS/ELINCS/NLP:

yes

(RC) TCSI:

yes

(NZ) NZIoC:

yes

(USA) TSCA:

yes

(CDN) DSL:

yes

(ROK) KECI/ECL:

yes

(RP) PICCS:

yes

(JP) MITI:

yes

(CHN) IECSC:

yes

(AUS) AIIC:

yes

(CDN) NDSL:

no

#### 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): 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16.

#### Abbreviations and acronyms

Flam. Liq. 2: Flammable liquids, hazard category 2

Flam. Liq. 3: Flammable liquids, hazard category 3

Acute Tox. 2: Acute toxicity, hazard category 2

Acute Tox. 3: Acute toxicity, hazard category 3

Acute Tox. 4: Acute toxicity, hazard category 4

Skin Corr. 1A: Skin corrosion, sub-category 1A

Skin Corr. 1B: Skin corrosion, sub-category 1B

Skin Irrit. 2: Skin irritation, hazard category 2

Eye Dam. 1: Serious eye damage, hazard category 1

Eye Irrit. 2: Eye irritation, hazard category 2

Skin Sens. 1: Skin sensitisation, hazard category 1

Skin Sens. 1A: Skin sensitisation, hazard category 1A

Muta. 2: Germ cell mutagenicity, hazard category 2

Carc. 1B: Carcinogenicity, hazard category 1B

STOT SE 3: Specific target organ toxicity - single exposure, hazard category 3

STOT RE 2: Specific target organ toxicity - repeated exposure, hazard category 2

Aquatic Chronic 1: Hazardous to the aquatic environment, long-term hazard category: Chronic 1

CLP: Classification, labelling and Packaging

REACH: Registration, Evaluation and Authorization of Chemicals

GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals

UN: United Nations

CAS: Chemical Abstracts Service

DNEL: Derived No Effect Level

DMEL: Derived Minimal Effect Level

PNEC: Predicted No Effect Concentration

ATE: Acute toxicity estimate

LC50: Lethal concentration, 50%

LD50: Lethal dose, 50%

LL50: Lethal loading, 50%

EL50: Effect loading, 50%

EC50: Effective Concentration 50%

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ErC50: Effective Concentration 50%, growth rate  
 NOEC: No Observed Effect Concentration  
 BCF: Bio-concentration factor  
 PBT: persistent, bioaccumulative, toxic  
 vPvB: very persistent, very bioaccumulative  
 ADR: Accord européen sur le transport des marchandises dangereuses par Route  
 (European Agreement concerning the International Carriage of Dangerous Goods by Road)  
 RID: Regulations concerning the international carriage of dangerous goods by rail  
 ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways  
 (Accord européen relatif au transport international des marchandises dangereuses par voies de navigation  
 intérieures)  
 IMDG: International Maritime Code for Dangerous Goods  
 EmS: Emergency Schedules  
 MFAG: Medical First Aid Guide  
 IATA: International Air Transport Association  
 ICAO: International Civil Aviation Organization  
 MARPOL: International Convention for the Prevention of Marine Pollution from Ships  
 IBC: Intermediate Bulk Container  
 VOC: Volatile Organic Compounds  
 SVHC: Substance of Very High Concern

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

| Classification      | Classification procedure |
|---------------------|--------------------------|
| Flam. Liq. 3; H226  | On basis of test data    |
| Skin Irrit. 2; H315 | Calculation method       |
| Eye Irrit. 2; H319  | Calculation method       |
| Skin Sens. 1; H317  | Calculation method       |
| STOT SE 3; H335     | Calculation method       |

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

|        |  |
|--------|--|
| H225   | Highly flammable liquid and vapour.                                |
| H226   | Flammable liquid and vapour.                                       |
| H302   | Harmful if swallowed.  |
| H311   | Toxic in contact with skin.  |
| H312   | Harmful 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.                                  |
| H341   | Suspected of causing genetic defects.                              |
| H350   | May cause cancer.  |
| H373   | May cause damage to organs through prolonged or repeated exposure. |
| H410   | Very toxic to aquatic life with long lasting effects.              |
| EUH071 | Corrosive to the respiratory tract.                                |

#### 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.

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