

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

**1.1 Product identifier**

CEKA BOND

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

Intended use:  
Anaerobic adhesive

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

ALPHADENT NV, Mannebeekstraat 33, 8790 Waregem, Belgium, T +32 (0)56 629 531

**1.4 Emergency telephone number**

Belgian Poison Control Centre (24 hours) **070 245 245** or call a poison control centre in your area

**SECTION 2: Hazards identification**

**2.1 Classification of the substance or mixture**

**Classification (CLP):**

|  |            |
|--|------------|
| Serious eye irritation<br>H319 Causes serious eye irritation.  | Category 2 |
| Skin sensitizer<br>H317 May cause an allergic skin reaction.   | Category 1 |
| Specific target organ toxicity – single exposure<br>H335 May cause respiratory irritation.<br>Target organ: respiratory tract irritation | Category 3 |
| Chronic hazards to the aquatic environment<br>H412 Harmful to aquatic life with long lasting effects                                     | Category 3 |

**2.2 Label elements**

**Label elements (CLP):**

**Hazard pictogram:**



**Contains:**

Hydroxypropyl methacrylate  
2,2'-Ethylenedioxydiethyl dimethacrylate  
Methacryloxyethyl succinate  
Cumene hydroperoxide  
Acetic acid, 2-Phenylhydrazide  
2-Hydroxyethyl methacrylate

**Signal word:**

Warning

**Hazard statement:**

H317 May cause an allergic skin reaction.  
H319 Causes serious eye irritation.  
H335 May cause respiratory irritation.  
H412 Harmful to aquatic life with long lasting effects.

**Precautionary statement:**

\*\*\*For consumer use only: P101 If medical advice is needed, have product container or label at hand. P102 Keep out of reach of children. P501 Dispose of waste and residues in accordance with local authority requirements.\*\*\*

**Precautionary statement:** P261 Avoid breathing vapours.  
**Prevention** P280 Wear protective gloves.  
P273 Avoid release to the environment.

**Precautionary statement:** P333+P313 If skin irritation or rash occurs: Get medical advice/attention.  
**Response** P337+P313 If eye irritation persists: Get medical advice/attention.

### 2.3 Other hazards

Non corrosive to eyes according to test method OECD 438 or based on analogy to similar products tested.  
Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.

## SECTION 3: Composition/information on ingredients

### 3.1 Mixtures

**General chemical description:**  
Anaerobic adhesive

**Declaration of the ingredients according to CLP (EC) No 1272/2008:**

| Hazardous components<br>CAS No                          | EC number<br>REACH Reg. No    | Content   | Classification   |
|---|-------------------------------|-----------|--|
| Hydroxypropyl methacrylate<br>27813-02-1                | 248-666-3<br>01-2119490226-37 | 25-50 %   | Skin Sens. 1<br>H317<br>Eye Irrit. 2<br>H 319  |
| 2,2'-Ethylenedioxydiethyl<br>dimethacrylate<br>109-16-0 | 203-652-6<br>01-2119969287-21 | 5- <10 %  | Skin Sens. 1B<br>H317  |
| Methacryloxyethyl succinate<br>20882-04-6               | 244-096-4<br>01-2120137902-58 | 1- <3 %   | Skin Sens. 1; Dermal<br>H317<br>Eye Dam. 1<br>H318   |
| Cumene hydroperoxide<br>80-15-09                        | 201-254-7<br>01-2119475796-19 | 1- <2.5 % | Acute Tox. 4; Dermal<br>H312<br>STOT RE 2<br>H373<br>Acute Tox. 4; Oral<br>H302<br>Org. Perox. E<br>H242<br>Acute Tox. 3; Inhalation<br>H331<br>Aquatic Chronic 2<br>H411<br>Skin Corr. 1B<br>H314 |
| Methacrylic acid<br>79-41-4                             | 201-204-4<br>01-2119463884-26 | 0.1- <1 % | Acute Tox. 4<br>H302<br>Acute Tox. 3<br>H311<br>Acute Tox. 4<br>H332<br>Skin Corr. 1A<br>H314<br>Eye Dam. 1<br>H318<br>STOT SE 3<br>H335   |

|   |                               |              |  |
|---|-------------------------------|--------------|--|
| Acetic acid,<br>2-Phenylhydrazide<br>114-83-0 | 204-055-3                     | 0.1- <1 %    | Acute Tox. 3; Oral<br>H301<br>Skin Irrit. 2<br>H315<br>Skin Sens. 1<br>H317<br>Eye Irrit. 2<br>H319<br>STOT SE 3; Inhalation<br>H335<br>Carc. 2<br>H351  |
| 2-Hydroxyethyl methacrylate<br>868-77-9       | 212-782-2<br>01-2119490169-29 | 0.1- <1 %    | Skin Irrit. 2<br>H315<br>Skin Sens. 1<br>H317<br>Eye Irrit. 2<br>H319  |
| 1,4-Naphthalenedione<br>130-15-4              | 204-977-6                     | 0.01- <0.1 % | Acute Tox. 3; Oral<br>H301<br>Skin Irrit. 2; Dermal<br>H315<br>Skin Sens. 1; Dermal<br>H317<br>Eye Irrit. 2<br>H319<br>Acute Tox. 1; Inhalation<br>H330<br>STOT SE 3; Inhalation<br>H335<br>Aquatic Acute 1<br>H400<br>Aquatic Chronic 1<br>H410<br>M factor (Acute Aquatic Toxicity): 10<br>M factor (Chronic Aquatic Toxicity): 10 |

**For full text of the H statements and other abbreviations, see section 16 "Other information".  
Substances without classification may have community workplace exposure limits available.**

#### SECTION 4: First aid measures

##### 4.1 Description of first aid measures

**Inhalation:**

Move to fresh air. If symptoms persist, seek medical advice.

**Skin contact:**

Rinse with running water and soap.  
Obtain medical attention if irritation persists.

**Eye contact:**

Rinse immediately with plenty of running water (for 10 minutes), seek medical attention from a specialist.

**Ingestion:**

Rinse mouth, drink 1-2 glasses of water, do not induce vomiting, consult a doctor.

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

EYE: irritation, conjunctivitis

RESPIRATORY: irritation, coughing, shortness of breath, chest tightness

SKIN: rash, urticaria

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

See section: Description of first aid measures.

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**SECTION 5: Firefighting measures**

**5.1 Extinguishing media**

**Suitable extinguishing media:**

Carbon dioxide, foam, powder

**Extinguishing media which must not be used for safety reasons:**

None known

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

In the event of a fire, carbon monoxide (CO), carbon dioxide (CO<sub>2</sub>) and nitrogen oxide (NO<sub>x</sub>) can be released.

**5.3 Advice for firefighters**

Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear.

**Additional information:**

In case of fire, keep containers cool with water spray.

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**SECTION 6: Accidental release measures**

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

Avoid skin and eye contact.

**6.2 Environmental precautions**

Do not let product enter drains.

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

For small spills, wipe up with paper towel and place in container for disposal.

For large spills, absorb onto inert absorbent material and place in sealed container for disposal.

Dispose of contaminated material as waste according to Section 13.

**6.4 Reference to other sections**

See advice in section 8.

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**SECTION 7: Handling and storage**

**7.1 Precautions for safe handling**

Use only in well-ventilated areas.

Avoid skin and eye contact.

Prolonged or repeated skin contact should be avoided.

See advice in section 8.

**Hygiene measures:**

Wash hands before work breaks and after finishing work.

Do not eat, drink or smoke while working.

Good industrial hygiene practices should be observed.

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

Refer to Technical Data Sheet.

**7.3 Specific end use(s)**

Anaerobic adhesive

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

**8.1 Control parameters**

**Occupational exposure limits**

Valid for Great Britain

| Ingredient<br>[Regulated substance]               | ppm | mg/m <sup>3</sup> | Value type                          | Short-term exposure limit<br>category / Remarks | Regulatory<br>list |
|---|-----|-------------------|-------------------------------------|---|--------------------|
| Methacrylic acid<br>79-41-4<br>[METHACRYLIC ACID] | 40  | 143               | Short Term Exposure<br>Limit (STEL) |   | EH40 WEL           |
| Methacrylic acid<br>79-41-4<br>[METHACRYLIC ACID] | 20  | 72                | Time Weighted Average<br>(TWA)      |   | EH40 WEL           |

**Occupational exposure limits**

Valid for Ireland

| Ingredient<br>[Regulated substance]               | ppm | mg/m <sup>3</sup> | Value type                          | Short-term exposure limit<br>category / Remarks | Regulatory<br>list |
|---|-----|-------------------|-------------------------------------|---|--------------------|
| Methacrylic acid<br>79-41-4<br>[METHACRYLIC ACID] | 20  | 70                | Time Weighted Average<br>(TWA)      |   | IR_OEL             |
| Methacrylic acid<br>79-41-4<br>[METHACRYLIC ACID] | 40  | 140               | Short Term Exposure<br>Limit (STEL) |   | IR_OEL             |

**Predicted No-Effect Concentration (PNEC):**

| Name on list   | Environmental<br>compartment       | Exposure<br>period | Value |     |       |        | Remarks |
|--|------------------------------------|--------------------|-------|-----|-------|--------|---------|
|  |                                    |                    | mg/l  | ppm | mg/kg | others |         |
| Methacrylic acid, monoester<br>with propane-1,2-diol<br>27813-02-1 | Aqua<br>(freshwater)               |                    | 0.904 |     |       |        |         |
| Methacrylic acid, monoester<br>with propane-1,2-diol<br>27813-02-1 | Aqua<br>(marine water)             |                    | 0.904 |     |       |        |         |
| Methacrylic acid, monoester<br>with propane-1,2-diol<br>27813-02-1 | Sewage treatment<br>plant (STP)    |                    | 10    |     |       |        |         |
| Methacrylic acid, monoester<br>with propane-1,2-diol<br>27813-02-1 | Aqua<br>(intermittent<br>releases) |                    | 0.972 |     |       |        |         |
| Methacrylic acid, monoester<br>with propane-1,2-diol<br>27813-02-1 | Sediment<br>(freshwater)           |                    |       |     | 6.28  |        |         |
| Methacrylic acid, monoester<br>with propane-1,2-diol<br>27813-02-1 | Sediment<br>(marine water)         |                    |       |     | 6.28  |        |         |
| Methacrylic acid, monoester<br>with propane-1,2-diol<br>27813-02-1 | Soil                               |                    |       |     | 0.727 |        |         |

|  |                                    |  |         |  |        |  |
|--|------------------------------------|--|---------|--|--------|--|
| 2,2'-Ethylenedioxydiethyl dimethacrylate<br>109-16-0         | Aqua<br>(freshwater)               |  | 0,164   |  |        |  |
| 2,2'-Ethylenedioxydiethyl dimethacrylate<br>109-16-0         | Aqua<br>(marine water)             |  | 0,0164  |  |        |  |
| 2,2'-Ethylenedioxydiethyl dimethacrylate<br>109-16-0         | Sewage treatment<br>plant (STP)    |  | 10      |  |        |  |
| 2,2'-Ethylenedioxydiethyl dimethacrylate<br>109-16-0         | Aqua<br>(intermittent<br>releases) |  | 0,164   |  |        |  |
| 2,2'-Ethylenedioxydiethyl dimethacrylate<br>109-16-0         | Sediment<br>(freshwater)           |  |         |  | 1.85   |  |
| 2,2'-Ethylenedioxydiethyl dimethacrylate<br>109-16-0         | Sediment<br>(marine water)         |  |         |  | 0.185  |  |
| 2,2'-Ethylenedioxydiethyl dimethacrylate<br>109-16-0         | Soil                               |  |         |  | 0.274  |  |
| 2,2'-Ethylenedioxydiethyl dimethacrylate<br>109-16-0         | Air                                |  |         |  |        |  |
| 2,2'-Ethylenedioxydiethyl dimethacrylate<br>109-16-0         | Predator                           |  |         |  |        |  |
| .alpha.-.alpha.-Dimethyl-<br>benzyl hydroperoxide<br>80-15-9 | Aqua<br>(freshwater)               |  | 0.0031  |  |        |  |
| .alpha.-.alpha.-Dimethyl-<br>benzyl hydroperoxide<br>80-15-9 | Aqua<br>(marine water)             |  | 0.00031 |  |        |  |
| .alpha.-.alpha.-Dimethyl-<br>benzyl hydroperoxide<br>80-15-9 | Aqua<br>(intermittent<br>releases) |  | 0.031   |  |        |  |
| .alpha.-.alpha.-Dimethyl-<br>benzyl hydroperoxide<br>80-15-9 | Sewage treatment<br>plant (STP)    |  | 0.35    |  |        |  |
| .alpha.-.alpha.-Dimethyl-<br>benzyl hydroperoxide<br>80-15-9 | Sediment<br>(freshwater)           |  |         |  | 0.023  |  |
| .alpha.-.alpha.-Dimethyl-<br>benzyl hydroperoxide<br>80-15-9 | Sediment<br>(marine water)         |  |         |  | 0.0023 |  |
| .alpha.-.alpha.-Dimethyl-<br>benzyl hydroperoxide<br>80-15-9 | Soil                               |  |         |  | 0.0029 |  |
| Methacrylic acid<br>79-41-0                                  | Aqua<br>(freshwater)               |  | 0.82    |  |        |  |
| Methacrylic acid<br>79-41-0                                  | Aqua<br>(marine water)             |  | 0.82    |  |        |  |
| Methacrylic acid<br>79-41-0                                  | Sewage treatment<br>plant (STP)    |  | 10      |  |        |  |
| Methacrylic acid<br>79-41-0                                  | Aqua<br>(intermittent<br>releases) |  | 0.82    |  |        |  |
| Methacrylic acid<br>79-41-0                                  | Soil                               |  |         |  | 1.2    |  |
| 2-hydroxyethyl methacrylate<br>868-77-9                      | Aqua<br>(freshwater)               |  | 0.482   |  |        |  |
| 2-hydroxyethyl methacrylate<br>868-77-9                      | Aqua<br>(marine water)             |  | 0.482   |  |        |  |
| 2-hydroxyethyl methacrylate<br>868-77-9                      | Sewage treatment<br>plant (STP)    |  | 10      |  |        |  |
| 2-hydroxyethyl methacrylate<br>868-77-9                      | Aqua<br>(intermittent<br>releases) |  | 1       |  |        |  |
| 2-hydroxyethyl methacrylate<br>868-77-9                      | Sediment<br>(freshwater)           |  |         |  | 3.79   |  |

|   |                            |  |  |  |       |  |  |
|---|----------------------------|--|--|--|-------|--|--|
| 2-hydroxyethyl methacrylate<br>868-77-9 | Sediment<br>(marine water) |  |  |  | 3.79  |  |  |
| 2-hydroxyethyl methacrylate<br>868-77-9 | Soil                       |  |  |  | 0.476 |  |  |
| 2-hydroxyethyl methacrylate<br>868-77-9 | Predator                   |  |  |  |       |  |  |

**Derived No-Effect Level (DNEL):**

| Name on list  | Application area   | Route of exposure | Health effect                         | Exposure time | Value                  | Remarks |
|---|--------------------|-------------------|---------------------------------------|---------------|------------------------|---------|
| Methacrylic acid, monoester with propane-1,2-diol<br>27813-02-1 | Workers            | Dermal            | Long-term exposure – systemic effects |               | 4.2 mg/kg              |         |
| Methacrylic acid, monoester with propane-1,2-diol<br>27813-02-1 | Workers            | Inhalation        | Long-term exposure – systemic effects |               | 14.7 mg/m <sup>3</sup> |         |
| Methacrylic acid, monoester with propane-1,2-diol<br>27813-02-1 | General population | Dermal            | Long-term exposure – systemic effects |               | 2.5 mg/kg              |         |
| Methacrylic acid, monoester with propane-1,2-diol<br>27813-02-1 | General population | Inhalation        | Long-term exposure – systemic effects |               | 8.8 mg/m <sup>3</sup>  |         |
| Methacrylic acid, monoester with propane-1,2-diol<br>27813-02-1 | General population | Oral              | Long-term exposure – systemic effects |               | 2.5 mg/kg              |         |
| 2,2'-Ethylenedioxydiethyl dimethacrylate<br>109-16-0            | Workers            | Inhalation        | Long-term exposure – systemic effects |               | 48.5 mg/m <sup>3</sup> |         |
| 2,2'-Ethylenedioxydiethyl dimethacrylate<br>109-16-0            | Workers            | Dermal            | Long-term exposure – systemic effects |               | 13.9 mg/kg             |         |
| 2,2'-Ethylenedioxydiethyl dimethacrylate<br>109-16-0            | General population | Inhalation        | Long-term exposure – systemic effects |               | 14.5 mg/m <sup>3</sup> |         |
| 2,2'-Ethylenedioxydiethyl dimethacrylate<br>109-16-0            | General population | Dermal            | Long-term exposure – systemic effects |               | 8.33 mg/kg             |         |
| 2,2'-Ethylenedioxydiethyl Dimethacrylate<br>109-16-0            | General population | Oral              | Long-term exposure – systemic effects |               | 8.33 mg/kg             |         |
| .alpha.-.alpha.-Dimethylbenzyl hydroperoxide<br>80-15-9         | Workers            | Inhalation        | Long-term exposure – systemic effects |               | 6 mg/m <sup>3</sup>    |         |
| Methacrylic acid<br>79-41-0                                     | Workers            | Inhalation        | Long-term exposure – systemic effects |               | 88 mg/m <sup>3</sup>   |         |
| Methacrylic acid<br>79-41-0                                     | Workers            | Inhalation        | Long-term exposure – systemic effects |               | 29.6 mg/m <sup>3</sup> |         |
| Methacrylic acid<br>79-41-0                                     | Workers            | Dermal            | Long-term exposure – systemic effects |               | 4.25 mg/kg             |         |
| Methacrylic acid<br>79-41-0                                     | General population | Inhalation        | Long-term exposure – systemic effects |               | 6.55 mg/m <sup>3</sup> |         |
| Methacrylic acid<br>79-41-0                                     | General population | Inhalation        | Long-term exposure – systemic effects |               | 6.3 mg/m <sup>3</sup>  |         |
| Methacrylic acid<br>79-41-0                                     | General population | Dermal            | Long-term exposure – systemic effects |               | 2.55 mg/kg             |         |
| 2-hydroxyethyl methacrylate<br>868-77-9                         | Workers            | Dermal            | Long-term exposure – systemic effects |               | 1.3 mg/kg              |         |
| 2-hydroxyethyl methacrylate<br>868-77-9                         | Workers            | Inhalation        | Long-term exposure – systemic effects |               | 4.9 mg/m <sup>3</sup>  |         |
| 2-hydroxyethyl methacrylate<br>868-77-9                         | General population | Dermal            | Long-term exposure – systemic effects |               | 0.83 mg/kg             |         |
| 2-hydroxyethyl methacrylate<br>868-77-9                         | General population | Inhalation        | Long-term exposure – systemic effects |               | 2.9 mg/m <sup>3</sup>  |         |
| 2-hydroxyethyl methacrylate<br>868-77-9                         | General population | Oral              | Long-term exposure – systemic effects |               | 0.83 mg/kg             |         |

**Biological exposure indices:**

None

## 8.2 Exposure controls

Engineering controls:  
Ensure good ventilation/extraction.

Respiratory protection:  
Ensure adequate ventilation.  
An approved mask or respirator with an organic vapour cartridge should be worn if the product is used in a poorly ventilated area.  
Filter type: A (EN 14387)

Hand protection:  
Chemical-resistant protective gloves (EN 374).  
Suitable materials for short-term contact or splashes (recommended: at least protection index 2, corresponding to > 30 minutes permeation time as per EN 374):  
nitrile rubber (NBR;  $\geq 0.4$  mm thickness)  
Suitable materials for longer, direct contact (recommended: protection index 6, corresponding to > 480 minutes permeation time as per EN 374):  
nitrile rubber (NBR;  $\geq 0.4$  mm thickness)  
This information is based on literature references and on information provided by glove manufacturers, or is derived by analogy with similar substances. Please note that in practice the working life of chemical-resistant protective gloves may be considerably shorter than the permeation time determined in accordance with EN 374 as a result of the many influencing factors (e.g. temperature). If signs of wear and tear are noticed then the gloves should be replaced.

Eye protection:  
Safety glasses with sideshields or chemical safety goggles must be worn if there is a risk of splashing.  
Protective eye equipment should conform to EN 166.

Skin protection:  
Wear suitable protective clothing.  
Protective clothing should conform to EN 14605 for liquid splashes or to EN 13982 for dusts.

Advices to personal protection equipment:  
The information provided on personal protective equipment is for guidance purposes only. A full risk assessment should be conducted prior to using this product to determine the appropriate personal protective equipment to suit local conditions. Personal protective equipment should conform to the relevant EN standard.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

|                                 |                                    |
|---------------------------------|------------------------------------|
| Appearance                      | Liquid<br>Green                    |
| Odour                           | Mild                               |
| Odour threshold                 | No data available / not applicable |
| pH                              | No data available / not applicable |
| Melting point                   | No data available / not applicable |
| Solidification temperature      | No data available / not applicable |
| Initial boiling point           | > 149 °C (> 300.2 °F)              |
| Flash point                     | > 93 °C (> 199.4 °F)               |
| Evaporation rate                | No data available / not applicable |
| Flammability                    | No data available / not applicable |
| Explosive limits                | No data available / not applicable |
| Vapour pressure (20 °C (68 °F)) | 0.3000000 mbar                     |
| Relative vapour density         | No data available / not applicable |
| Density                         | 1.1 g/cm <sup>3</sup>              |



|  |                                    |
|--|------------------------------------|
| Bulk density                                 | No data available / not applicable |
| Solubility                                   | No data available / not applicable |
| Solubility qualitative<br>(Solvent: water)   | Partially soluble                  |
| Solubility qualitative<br>(Solvent: acetone) | Miscible                           |
| Partition coefficient: n-octanol-water       | No data available / not applicable |
| Auto-ignition temperature                    | No data available / not applicable |
| Decomposition temperature                    | No data available / not applicable |
| Viscosity                                    | No data available / not applicable |
| Viscosity (kinematic)                        | No data available / not applicable |
| Explosive properties                         | No data available / not applicable |
| Oxidizing properties                         | No data available / not applicable |

## 9.2 Other information

No data available / Not applicable

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Reacts with strong oxidants.

### 10.2 Chemical stability

Stable under recommended storage conditions.

### 10.3 Possibility of hazardous reactions

See section reactivity.

### 10.4 Conditions to avoid

No decomposition if used according to specifications.

### 10.5 Incompatible materials

See section reactivity.

### 10.6 Hazardous decomposition products

Carbon oxides

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### General toxicological information:

Prolonged or repeated contact may cause skin irritation.

#### Acute oral toxicity:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances<br>CAS No                          | Value<br>type | Value         | Species | Method                                   |
|---|---------------|---------------|---------|--|
| Hydroxypropyl methacrylate<br>27813-02-1                | LD50          | > 2,000 mg/kg | rat     | OECD Guideline 401 (Acute Oral Toxicity) |
| 2,2'-Ethylenedioxydiethyl<br>dimethacrylate<br>109-16-0 | LD50          | 10,837 mg/kg  | rat     | not specified                            |
| Methacryloyloxyethyl succinate<br>20882-04-6            | LD50          | > 2,000 mg/kg | rat     | OECD Guideline 423 (Acute Oral Toxicity) |

|  |      |               |     |  |
|--|------|---------------|-----|--|
| Cumene hydroperoxide<br>80-15-9            | LD50 | 550 mg/kg     | rat | not specified                            |
| Methacrylic acid<br>79-41-4                | LD50 | 1,320 mg/kg   | rat | OECD Guideline 401 (Acute Oral Toxicity) |
| Acetic acid, 2-phenylhydrazide<br>114-83-0 | LD50 | 270 mg/kg     | rat | not specified                            |
| 2-hydroxyethyl methacrylate<br>868-77-9    | LD50 | > 5,000 mg/kg | rat | not specified                            |
| 1,4-Naphthalenedione<br>130-15-4           | LD50 | 190 mg/kg     | rat | not specified                            |

#### Acute dermal toxicity:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances<br>CAS No                          | Value<br>type | Value             | Species | Method                    |
|---|---------------|-------------------|---------|---------------------------|
| Hydroxypropyl methacrylate<br>27813-02-1                | LD50          | > 5,000 mg/kg     | rabbit  | not specified             |
| 2,2'-Ethylenedioxydiethyl<br>dimethacrylate<br>109-16-0 | LD50          | > 2,000 mg/kg     | mouse   | not specified             |
| Cumene hydroperoxide<br>80-15-9                         | LD50          | 1,200-1,520 mg/kg |         | not specified             |
| Methacrylid acid<br>79-41-4                             | LD50          | 500-1,000 mg/kg   | rabbit  | Dermal Toxicity Screening |
| 2-Hydroxyethyl methacrylate<br>868-77-9                 | LD50          | > 5,000 mg/kg     | rabbit  | not specified             |

#### Acute inhalative toxicity:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances<br>CAS No | Value<br>type | Value      | Test<br>atmosphere | Exposure<br>time | Species | Method   |
|--------------------------------|---------------|------------|--------------------|------------------|---------|--|
| Methacrylic acid<br>79-41-4    | LC50          | > 3.6 mg/l | dust/mist          | 4 h              | rat     | OECD Guideline 403 (Acute Inhalation Toxicity) |

#### Skin corrosion/irritation:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances<br>CAS No                          | Result         | Exposure<br>time | Species   | Method   |
|---|----------------|------------------|---|--|
| Hydroxypropyl methacrylate<br>27813-02-1                | not irritating | 24 h             | rabbit  | Draize test  |
| 2,2'-Ethylenedioxydiethyl<br>dimethacrylate<br>109-16-0 | not irritating | 24 h             | rabbit  | Draize test  |
| Methacryloyloxyethyl succinate<br>20882-04-6            | not irritating | 0.25 h           | Human, EPISKIN™<br>Reconstituted Human<br>Epidermis model | OECD 439 (In Vitro Skin Irritation:<br>Reconstructed Human Epidermis (RHE)<br>Test Method) |
| Methacryloyloxyethyl succinate<br>20882-04-6            | not classified | 4 h              | Human, EPISKIN™<br>Reconstituted Human<br>Epidermis model | OECD 431 (In Vitro Skin Corrosion:<br>Reconstructed Human Epidermis (RHE)<br>Test Method)  |
| Cumene hydroperoxide<br>80-15-9                         | corrosive      |                  | rabbit  | Draize test  |
| Methacrylic acid<br>79-41-4                             | corrosive      | 3 min            | rabbit  | OECD Guideline 404 (Acute Dermal<br>Irritation / Corrosion)                                |

#### Serious eye damage/irritation:

Non corrosive to eyes according to test method OECD 438 or based on analogy to similar products tested.

| Hazardous substances<br>CAS No                         | Result         | Exposure<br>time | Species                          | Method   |
|--|----------------|------------------|----------------------------------|--|
| 2,2'-Ethylendioxydiethyl<br>dimethacrylate<br>109-16-0 | not irritating |                  | rabbit                           | OECD Guideline 405 (Acute Eye Irritation /<br>Corrosion) |
| Methacryloyloxyethyl succinate<br>20882-04-6           | Category I     | 10 min           | Bovine, cornea,<br>in vitro test | OECD Guideline 437 (BCOP)                                |
| Methacrylic acid<br>79-41-4                            | corrosive      |                  | rabbit                           | Draize test  |
| 2-Hydroxyethyl methacrylate<br>868-77-9                | irritating     |                  | rabbit                           | Draize test  |

#### Respiratory or skin sensitization:

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

| Hazardous substances<br>CAS No                         | Result          | Test type                                | Species    | Method   |
|--|-----------------|--|------------|--|
| 2,2'-Ethylendioxydiethyl<br>dimethacrylate<br>109-16-0 | sensitizing     | Mouse local<br>lymphnode<br>assay (LLNA) | mouse      | OECD Guideline 429 (Skin Sensitisation:<br>Local Lymph Node Assay) |
| Methacrylic acid<br>79-41-4                            | not sensitizing | Buehler test                             | guinea pig | OECD Guideline 406 (Skin Sensitisation)                            |

#### Germ cell mutagenicity:

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

| Hazardous substances<br>CAS No                         | Result   | Type of study /<br>Route of<br>administration          | Metabolic<br>activation /<br>Exposure time | Species | Method  |
|--|----------|--|--|---------|---|
| Hydroxypropyl methacrylate<br>27813-02-1               | negative | bacterial reverse<br>mutation assay<br>(e.g Ames test) | with and without                           |         | OECD Guideline 471 (Bacterial<br>Reverse Mutation Assay)                                |
| Hydroxypropyl methacrylate<br>27813-02-1               | negative | mammalian cell<br>gene mutation assay                  | with and without                           |         | OECD Guideline 476 (In vitro<br>Mammalian Cell Gene Mutation<br>Test)                   |
| 2,2'-Ethylendioxydiethyl<br>dimethacrylate<br>109-16-0 | negative | mammalian cell<br>gene mutation assay                  | with and without                           |         | OECD Guideline 476 (In vitro<br>Mammalian Cell Gene Mutation<br>Test)                   |
| 2,2'-Ethylendioxydiethyl<br>dimethacrylate<br>109-16-0 | negative | bacterial reverse<br>mutation assay<br>(e.g Ames test) | with and without                           |         | OECD Guideline 471 (Bacterial<br>Reverse Mutation Assay)                                |
| 2,2'-Ethylendioxydiethyl<br>dimethacrylate<br>109-16-0 | negative | in vitro mammalian<br>cell micronucleus<br>test        | with and without                           |         | OECD Guideline 487 (In vitro<br>Mammalian Cell Micronucleus Test)                       |
| Methacryloyloxyethyl succinate<br>20882-04-6           | negative | bacterial reverse<br>mutation assay<br>(e.g Ames test) | with and without                           |         | OECD Guideline 471 (Bacterial<br>Reverse Mutation Assay)                                |
| Cumene hydroperoxide<br>80-15-9                        | positive | bacterial reverse<br>mutation assay<br>(e.g Ames test) | without                                    |         | OECD Guideline 471 (Bacterial<br>Reverse Mutation Assay)                                |
| Methacrylic acid<br>79-41-4                            | negative | bacterial reverse<br>mutation assay<br>(e.g Ames test) | with and without                           |         | OECD Guideline 471 (Bacterial<br>Reverse Mutation Assay)                                |
| 2-Hydroxyethyl methacrylate<br>868-77-9                | negative | bacterial reverse<br>mutation assay<br>(e.g Ames test) | with and without                           |         | OECD Guideline 471 (Bacterial<br>Reverse Mutation Assay)                                |
| 2-Hydroxyethyl methacrylate<br>868-77-9                | positive | in vitro mammalian<br>chromosome<br>aberration test    | with and without                           |         | OECD Guideline 473 (In vitro<br>Mammalian Chromo-some<br>Aberration Test)               |
| 2-Hydroxyethyl methacrylate<br>868-77-9                | negative | mammalian cell<br>gene mutation assay                  | with and without                           |         | OECD Guideline 476 (In vitro<br>Mammalian Cell Gene Mutation<br>Test)                   |
| 2-Hydroxyethyl methacrylate<br>868-77-9                | negative | bacterial reverse<br>mutation assay<br>(e.g Ames test) | with and without                           |         | OECD Guideline 472 (Genetic<br>Toxicology: Escherichia coli,<br>Reverse Mutation Assay) |

**Carcinogenity:**

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

| Hazardous substances<br>CAS No           | Result              | Route of<br>application | Exposure time /<br>Frequency of<br>treatment          | Species | Sex             | Method  |
|--|---------------------|-------------------------|---|---------|-----------------|---|
| Hydroxypropyl methacrylate<br>27813-02-1 | not<br>carcinogenic | inhalation              | 2 years<br>(102 weeks)<br>6 hours/day,<br>5 days/week | rat     | male            | OECD Guideline 451<br>(Carcinogenicity Studies) |
| Methacrylic acid<br>79-41-4              | not<br>carcinogenic | inhalation              | 2 y   |         | male/<br>female | OECD Guideline 451<br>(Carcinogenicity Studies) |
| 2-Hydroxyethyl methacrylate<br>868-77-9  |                     | inhalation              | 102 weeks<br>6 hours/day,<br>5 days/week              | rat     | female          | OECD Guideline 451<br>(Carcinogenicity Studies) |

**Reproductive toxicity:**

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

| Hazardous substances<br>CAS No                         | Result /<br>Value  | Test type                   | Route of<br>application | Species | Method  |
|--|--|-----------------------------|-------------------------|---------|---|
| Hydroxypropyl<br>methacrylate<br>27813-02-1            | NOAEL P 400 mg/kg  | Two-<br>generation<br>study | oral: gavage            | rat     | OECD Guideline 416 (Two-Generation<br>Reproduction Toxicity Study)  |
| 2,2'-Ethylendioxydiethyl<br>dimethacrylate<br>109-16-0 | NOAEL P 1,000 mg/kg<br>NOAEL F1 1,000 mg/kg                  |                             | oral: gavage            | rat     | OECD Guideline 422 (Combined<br>Repeated Dose Toxicity Study with the<br>Reproduction / Developmental Toxicity<br>Screening Test) |
| Methacrylic acid<br>79-41-4                            | NOAEL P 50 mg/kg<br>NOAEL F1 400 mg/kg<br>NOAEL F2 400 mg/kg | Two-<br>generation<br>study | oral: gavage            | rat     | OECD Guideline 416 (Two-Generation<br>Reproduction Toxicity Study)  |
| 2-hydroxyethyl<br>methacrylate<br>868-77-9             | NOAEL P >= 1,000 mg/kg<br>NOAEL F1 >= 1,000 mg/kg            | Screening                   | oral: gavage            | rat     | OECD Combined Repeated Dose and<br>Reproductive / Developmental Toxicity<br>Screening Test (Precursor Protocol of<br>GL 422)      |

**STOT-single exposure:**

No data available.

**STOT-repeated exposure:**

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

| Hazardous substances<br>CAS No                         | Result / Value    | Route of<br>application | Exposure time /<br>Frequency of<br>treatment | Species | Method  |
|--|-------------------|-------------------------|--|---------|---|
| Hydroxypropyl<br>methacrylate<br>27813-02-1            | NOAEL 300 mg/kg   | oral: gavage            |  | rat     | OECD Guideline 422 (Combined<br>Repeated Dose Toxicity Study with the<br>Reproduction / Developmental Toxicity<br>Screening Test) |
| 2,2'-ethyleendioxy-<br>diethylmethacrylaat<br>109-16-0 | NOAEL 1.000 mg/kg | oral: gavage            | daily  | rat     | OECD Guideline 422 (Combined<br>Repeated Dose Toxicity Study with the<br>Reproduction / Developmental Toxicity<br>Screening Test) |
| Cumene hydroperoxide<br>80-15-9                        |                   | inhalation:<br>aerosol  | 6 h/d<br>5 d/w                               | rat     | Not specified   |
| 2-hydroxyethyl-<br>methacrylate<br>868-77-9            | NOAEL 100 mg/kg   | oral: gavage            | once daily                                   | rat     | OECD Guideline 422 (Combined<br>Repeated Dose Toxicity Study with the<br>Reproduction / Developmental Toxicity<br>Screening Test) |

**Aspiration hazard:**

No data available.

**SECTION 12: Ecological information**

**General ecological information:**

Do not empty into drains / surface water / ground water.

**12.1 Toxicity**

**Toxicity (Fish):**

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances<br>CAS No                          | Value<br>type | Value      | Exposure<br>time | Species  | Method  |
|---|---------------|------------|------------------|--|---|
| Hydroxypropyl methacrylate<br>27813-02-1                | LC50          | 493 mg/l   | 48 h             | Leuciscus idus melanotus                           | DIN 38412-15                                      |
| 2,2'-Ethylenedioxydiethyl<br>dimethacrylate<br>109-16-0 | LC50          | 16.4 mg/l  | 96 h             | Danio rerio  | OECD Guideline 203 (Fish, Acute<br>Toxicity Test) |
| Cumene hydroperoxide<br>80-15-9                         | LC50          | 3.9 mg/l   | 96 h             | Oncorhynchus mykiss                                | OECD Guideline 203 (Fish, Acute<br>Toxicity Test) |
| Methacrylic acid<br>79-41-4                             | LC50          | 85 mg/l    | 96 h             | Salmo gairdneri (new name:<br>Oncorhynchus mykiss) | EPA OTS 797.1400 (Fish Acute<br>Toxicity Test)    |
| 2-Hydroxyethyl methacrylate<br>868-77-9                 | LC50          | > 100 mg/l | 96 h             | Oryzias latipes                                    | OECD Guideline 203 (Fish, Acute<br>Toxicity Test) |

**Toxicity (Daphnia):**

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances<br>CAS No               | Value<br>type | Value        | Exposure<br>time | Species       | Method   |
|--|---------------|--------------|------------------|---------------|--|
| Hydroxypropyl methacrylate<br>27813-02-1     | EC50          | > 143 mg/l   | 48 h             | Daphnia magna | OECD Guideline 202 (Daphnia sp. Acute<br>Immobilisation Test)                          |
| Methacryloyloxyethyl succinate<br>20882-04-6 | EC50          | > 515.4 mg/l | 48 h             | Daphnia magna | OECD Guideline 202 (Daphnia sp. Acute<br>Immobilisation Test)                          |
| Cumene hydroperoxide<br>80-15-9              | EC50          | 18 mg/l      | 48 h             | Daphnia magna | OECD Guideline 202 (Daphnia sp. Acute<br>Immobilisation Test)                          |
| Methacrylic acid<br>79-41-4                  | EC50          | > 130 mg/l   | 48 h             | Daphnia magna | EPA OTS 797.1300 (Aquatic<br>Invertebrate Acute Toxicity Test,<br>Freshwater Daphnids) |
| 2-Hydroxyethyl methacrylate<br>868-77-9      | EC50          | 380 mg/l     | 48 h             | Daphnia magna | OECD Guideline 202 (Daphnia sp. Acute<br>Immobilisation Test)                          |

**Chronic toxicity to aquatic invertebrates:**

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances<br>CAS No                          | Value<br>type | Value     | Exposure<br>time | Species       | Method   |
|---|---------------|-----------|------------------|---------------|--|
| Hydroxypropyl methacrylate<br>27813-02-1                | NOEC          | 45.2 mg/l | 21 d             | Daphnia magna | OECD 211 (Daphnia magna,<br>Reproduction Test) |
| 2,2'-Ethylenedioxydiethyl<br>dimethacrylate<br>109-16-0 | NOEC          | 32 mg/l   | 21 d             | Daphnia magna | OECD 211 (Daphnia magna,<br>Reproduction Test) |
| 2-Hydroxyethyl methacrylate<br>868-77-9                 | NOEC          | 24.1 mg/l | 21 d             | Daphnia magna | OECD 211 (Daphnia magna,<br>Reproduction Test) |

### Toxicity (Algae):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances<br>CAS No                          | Value<br>type | Value       | Exposure<br>time | Species  | Method   |
|---|---------------|-------------|------------------|--|--|
| Hydroxypropyl methacrylate<br>27813-02-1                | EC50          | > 97.2 mg/l | 72 h             | Pseudokirchnerella<br>subcapitata  | OECD Guideline 201 (Alga,<br>Growth Inhibition Test) |
| Hydroxypropyl methacrylate<br>27813-02-1                | NOEC          | > 97.2 mg/l | 72 h             | Pseudokirchnerella<br>subcapitata  | OECD Guideline 201 (Alga,<br>Growth Inhibition Test) |
| 2,2'-Ethylenedioxydiethyl<br>dimethacrylate<br>109-16-0 | EC50          | > 100 mg/l  | 72 h             | Pseudokirchnerella<br>subcapitata  | OECD Guideline 201 (Alga,<br>Growth Inhibition Test) |
| 2,2'-Ethylenedioxydiethyl<br>dimethacrylate<br>109-16-0 | NOEC          | 18.6 mg/l   | 72 h             | Pseudokirchnerella<br>subcapitata  | OECD Guideline 201 (Alga,<br>Growth Inhibition Test) |
| Methacryloyloxyethyl succinate<br>20882-04-6            | EC50          | > 312 mg/l  | 72 h             | Pseudokirchnerella<br>subcapitata  | OECD Guideline 201 (Alga,<br>Growth Inhibition Test) |
| Methacryloyloxyethyl succinate<br>20882-04-6            | NOEC          | 21.1 mg/l   | 72 h             | Pseudokirchnerella<br>subcapitata  | OECD Guideline 201 (Alga,<br>Growth Inhibition Test) |
| Cumene hydroperoxide<br>80-15-9                         | ErC50         | 3.1 mg/l    | 72 h             | Pseudokirchnerella<br>subcapitata  | OECD Guideline 201 (Alga,<br>Growth Inhibition Test) |
| Methacrylic acid<br>79-41-4                             | NOEC          | 8.2 mg/l    | 72 h             | Selenastrum capricornutum<br>(new name: Pseudo-<br>kirchnerella subcapitata) | OECD Guideline 201 (Alga,<br>Growth Inhibition Test) |
| Methacrylic acid<br>79-41-4                             | EC50          | 45 mg/l     | 72 h             | Selenastrum capricornutum<br>(new name: Pseudo-<br>kirchnerella subcapitata) | OECD Guideline 201 (Alga,<br>Growth Inhibition Test) |
| 2-Hydroxyethyl methacrylate<br>868-77-9                 | EC50          | 836 mg/l    | 72 h             | Selenastrum capricornutum<br>(new name: Pseudo-<br>kirchnerella subcapitata) | OECD Guideline 201 (Alga,<br>Growth Inhibition Test) |
| 2-Hydroxyethyl methacrylate<br>868-77-9                 | NOEC          | 400 mg/l    | 72 h             | Selenastrum capricornutum<br>(new name: Pseudo-<br>kirchnerella subcapitata) | OECD Guideline 201 (Alga,<br>Growth Inhibition Test) |
| 1,4-Naphthalenedione<br>130-15-4                        | EC50          | 0.011 mg/l  | 72 h             | Dunaliella bioculata   | OECD Guideline 201 (Alga,<br>Growth Inhibition Test) |

### Toxicity to microorganisms:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances<br>CAS No           | Value<br>type | Value        | Exposure<br>time | Species                 | Method          |
|--|---------------|--------------|------------------|-------------------------|-----------------|
| Hydroxypropyl methacrylate<br>27813-02-1 | EC10          | 1,140 mg/l   | 16 h             |                         | not specified   |
| Cumene hydroperoxide<br>80-15-9          | EC10          | 70 mg/l      | 30 min           |                         | not specified   |
| Methacrylic acid<br>79-41-4              | EC10          | 100 mg/l     | 17 h             |                         | not specified   |
| 2-Hydroxyethyl methacrylate<br>868-77-9  | EC0           | > 3,000 mg/l | 16 h             | Pseudomonas fluorescens | other guideline |

### 12.2 Persistence and degradability

The product is not biodegradable.

| Hazardous substances<br>CAS No                          | Result  | Test<br>type | Degradability | Exposure<br>time | Method  |
|---|---|--------------|---------------|------------------|---|
| Hydroxypropyl methacrylate<br>27813-02-1                | readily<br>biodegradable                                  | aerobic      | 94.2 %        | 28 d             | OECD Guideline 301 E (Ready<br>Biodegradability: Modified OECD<br>Screening Test) |
| 2,2'-Ethylenedioxydiethyl<br>dimethacrylate<br>109-16-0 | readily<br>biodegradable                                  | aerobic      | 85 %          | 28 d             | OECD Guideline 301 B (Ready<br>Biodegradability: CO2 Evolution Test)              |
| Methacryloyloxyethyl<br>succinate<br>20882-04-6         | readily<br>biodegradable, but<br>failing 10-day<br>window | aerobic      | 80 %          | 28 d             | OECD Guideline 301 F (Ready<br>Biodegradability: Manometric<br>Respirometry Test) |

|   |                          |         |          |      |  |
|---|--------------------------|---------|----------|------|--|
| Cumene hydroperoxide<br>80-15-9         |                          | no data | 0 %      | 28 d | OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test)        |
| Methacrylic acid<br>79-41-4             | inherently biodegradable | aerobic | 100 %    | 14 d | OECD Guideline 302 B (Inherent biodegradability: Zahn-Wellens/EMPA Test) |
| Methacrylic acid<br>79-41-4             | readily biodegradable    | aerobic | 86 %     | 28 d | OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test)        |
| 2-Hydroxyethyl methacrylate<br>868-77-9 | readily biodegradable    | aerobic | 92-100 % | 14 d | OECD Guideline 301 C (Ready Biodegradability: Modified MITI Test (I))    |
| 1,4-Naphthalenedione<br>130-15-4        |                          | no data | 0-60 %   |      | OECD 301 A-F   |

### 12.3 Bioaccumulative potential

No data available for the product.

| Hazardous substances<br>CAS No  | Bioconcentration<br>factor (BCF) | Exposure<br>time | Temperature | Species     | Method  |
|---------------------------------|----------------------------------|------------------|-------------|-------------|---|
| Cumene hydroperoxide<br>80-15-9 | 9.1                              |                  |             | calculation | OECD Guideline 305 (Bioconcentration: Flow-through Fish Test) |

### 12.4 Mobility in soil

Cured adhesives are immobile.

| Hazardous substances<br>CAS No                          | LogPow | Temperature | Method   |
|---|--------|-------------|--|
| Hydroxypropyl methacrylate<br>27813-02-1                | 0.97   | 20 °C       | not specified  |
| 2,2'-Ethylenedioxydiethyl<br>dimethacrylate<br>109-16-0 | 2.3    |             | OECD Guideline 117 (Partition Coefficient (n-octanol / water), HPLC Method)      |
| Methacryloyloxyethyl succinate<br>20882-04-6            | 0.783  | 23 °C       | EU Method A.8 (Partition Coefficient)  |
| Cumene hydroperoxide<br>80-15-9                         | 2.16   |             | not specified  |
| Methacrylic acid<br>79-41-4                             | 0.93   | 22 °C       | OECD Guideline 107 (Partition Coefficient (n-octanol/water), Shake Flask Method) |
| Acetic acid, 2-Phenylhydrazide<br>114-83-0              | 0.74   |             | not specified  |
| 2-Hydroxyethyl methacrylate<br>868-77-9                 | 0.42   | 25 °C       | OECD Guideline 107 (Partition Coefficient (n-octanol/water), Shake Flask Method) |
| 1,4-Naphthalenedione<br>130-15-4                        | 1.71   |             | not specified  |

### 12.5 Results of PBT and vPvB assessment

| Hazardous substances<br>CAS No                          | PBT/vPvB  |
|---|---|
| Hydroxypropyl methacrylate<br>27813-02-1                | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria. |
| 2,2'-Ethylenedioxydiethyl<br>dimethacrylate<br>109-16-0 | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria. |
| Cumene hydroperoxide<br>80-15-9                         | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria. |
| Methacrylic acid<br>79-41-4                             | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria. |
| 2-Hydroxyethyl methacrylate<br>868-77-9                 | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria. |
| 1,4-Naphthalenedione<br>130-15-4                        | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria. |

### 12.6 Other adverse effects

No data available

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### SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods

##### Product disposal:

Dispose of in accordance with local and national regulations.

##### Disposal of uncleaned packages:

After use, tubes cartons and bottles containing residual product should be disposed of as chemically contaminated waste in an authorized legal land fill site or incinerated.

Disposal must be made according to official regulations.

##### Waste code:

08 04 09 waste adhesives and sealants containing organic solvents and other dangerous substances.

The valid EWC waste code numbers are source-related. The manufacturer is therefore unable to specify EWC waste codes for the articles or products used in the various sectors. The EWC codes listed are intended as a recommendation for users.

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### SECTION 14: Transport information

#### 14.1 UN number

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR

#### 14.2 UN proper shipping name

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR

#### 14.3 Transport hazard class(es)

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR

#### 14.4 Packing group

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR

#### 14.5 Environmental hazards

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR

#### 14.6 Special precautions for user

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR

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

Not applicable

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### SECTION 15: Regulatory information

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

VOC content (2010/75/EC) < 3 %

#### 15.2 Chemical safety assessment

A chemical safety assessment has not been carried out.

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### SECTION 16: Other information

The labelling of the product is indicated in Section 2.

The full text of all abbreviations indicated by codes in this safety data sheet are as follows:



|      |  |
|------|--|
| H242 | Heating may cause a fire.  |
| H301 | Toxic if swallowed.  |
| 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.  |
| H331 | Toxic if inhaled.  |
| H332 | Harmful if inhaled.  |
| H335 | May cause respiratory irritation.                                  |
| H351 | Suspected of causing cancer.                                       |
| H373 | May cause damage to organs through prolonged or repeated exposure. |
| H400 | Very toxic to aquatic life.  |
| H410 | Very toxic to aquatic life with long lasting effects.              |
| H411 | Toxic to aquatic life with long lasting effects.                   |

**Further information:**

This information is based on our current level of knowledge and relates to the product in the state in which it is delivered. It is intended to describe our products from the point of view of safety requirements and is not intended to guarantee any particular properties.