



## Safety Data Sheet according to (EC) No 1907/2006 as amended

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LOCTITE AA 317/734 known as Loctite 317/734

SDS No. : 203418  
V004.0

Revision: 27.09.2024

printing date: 09.05.2025

Replaces version from: 12.06.2024

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### Kit/Multi-component Product

1. SDS No.173124 - LOCTITE AA 317
2. SDS No.795956 - LOCTITE SF 734 known as Loctite 734



## Safety Data Sheet according to (EC) No 1907/2006 as amended

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LOCTITE AA 317

SDS No. : 173124  
V004.0

Revision: 27.09.2024

printing date: 09.05.2025

Replaces version from: 12.06.2024

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

#### 1.1. Product identifier

LOCTITE AA 317

UFI: 1H63-D0JT-3004-C1CV

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

Intended use:

Adhesive

#### 1.3. Details of the supplier of the safety data sheet

Henkel Ltd

Adhesives

Wood Lane End

HP2 4RQ Hemel Hempstead

Great Britain

Phone: +44 (1442) 278000

SDSinfo.Adhesive@henkel.com

For Safety Data Sheet updates please visit our website [www.mysds.henkel.com](http://www.mysds.henkel.com) or [www.henkel-adhesives.com](http://www.henkel-adhesives.com).

#### 1.4. Emergency telephone number

24 Hours Emergency Tel: +44 (0)1442 278497

### SECTION 2: Hazards identification

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

##### Classification (CLP):

|                                                         |            |
|---------------------------------------------------------|------------|
| Skin irritation                                         | Category 2 |
| H315 Causes skin irritation.                            |            |
| Serious eye damage                                      | Category 1 |
| H318 Causes serious eye damage.                         |            |
| Skin sensitizer                                         | Category 1 |
| H317 May cause an allergic skin reaction.               |            |
| Specific target organ toxicity - single exposure        | Category 3 |
| H335 May cause respiratory irritation.                  |            |
| Target organ: respiratory tract irritation              |            |
| Chronic hazards to the aquatic environment              | Category 3 |
| H412 Harmful to aquatic life with long lasting effects. |            |

#### 2.2. Label elements

##### Label elements (CLP):

**Hazard pictogram:****Contains**

Hydroxypropyl methacrylate  
 Acrylic acid  
 2,2'-Ethylenedioxydiethyl dimethacrylate  
 2-Hydroxyethyl methacrylate

**Signal word:**

Danger

**Hazard statement:**

H318 Causes serious eye damage.  
 H315 Causes skin irritation.  
 H317 May cause an allergic skin reaction.  
 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 contents/container in accordance with national regulation.\*\*\*

**Precautionary statement:  
Prevention**

P261 Avoid breathing vapors.  
 P273 Avoid release to the environment.  
 P280 Wear protective gloves/eye protection.

**Precautionary statement:  
Response**

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P302+P352 IF ON SKIN: Wash with plenty of soap and water.  
 P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

**2.3. Other hazards**

None if used properly.

Classified as Skin irritation Category 2, H315 based on Expert Judgement and experimental data of an OECD 431 test or based on analogy to similar products tested.

**Following substances are present in a concentration  $\geq$  the concentration limit for depiction in Section 3 and fulfill the criteria for PBT/vPvB, or were identified as endocrine disruptor (ED):**

This mixture does not contain any substances in a concentration  $\geq$  the concentration limit for depiction in Section 3 that are assessed to be a PBT, vPvB or ED.

|                                                          |
|----------------------------------------------------------|
| <b>SECTION 3: Composition/information on ingredients</b> |
|----------------------------------------------------------|

**3.2. Mixtures**

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

| <b>Hazardous components<br/>CAS-No.<br/>EC Number<br/>REACH-Reg No.</b>               | <b>Concentration</b> | <b>Classification</b>                                                                                                                                                                                                            | <b>Specific Conc. Limits, M-factors and ATEs</b>                                                                                                                                                           | <b>Add. Information</b> |
|---------------------------------------------------------------------------------------|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|
| Hydroxypropyl methacrylate<br>27813-02-1<br>248-666-3<br>01-2119490226-37             | 25- 50 %             | Skin Sens. 1, H317<br>Eye Irrit. 2, H319                                                                                                                                                                                         |                                                                                                                                                                                                            |                         |
| Acrylic acid<br>79-10-7<br>201-177-9<br>01-2119452449-31                              | 5- < 10 %            | Acute Tox. 4, Dermal, H312<br>Skin Corr. 1A, H314<br>Flam. Liq. 3, H226<br>Acute Tox. 4, Oral, H302<br>Acute Tox. 4, Inhalation, H332<br>Aquatic Acute 1, H400<br>Aquatic Chronic 2, H411<br>STOT SE 3, H335<br>Eye Dam. 1, H318 | STOT SE 3; H335; C >= 1 %<br>=====<br>M acute = 1<br>=====<br>dermal:ATE = 1.100 mg/kg<br>inhalation:ATE = 11 mg/l;vapour                                                                                  | EU OEL                  |
| 2,2'-Ethylenedioxydiethyl dimethacrylate<br>109-16-0<br>203-652-6<br>01-2119969287-21 | 1- < 5 %             | Skin Sens. 1B, H317                                                                                                                                                                                                              | dermal:ATE = > 5.000 mg/kg<br>inhalation:ATE = 28,17 mg/l;dust/mist                                                                                                                                        |                         |
| Cumene hydroperoxide<br>80-15-9<br>201-254-7<br>01-2119475796-19                      | 1- < 3 %             | STOT RE 2, H373<br>Skin Corr. 1B, H314<br>Acute Tox. 2, Inhalation, H330<br>Aquatic Chronic 2, H411<br>Acute Tox. 4, Oral, H302<br>Acute Tox. 4, Dermal, H312<br>Org. Perox. E, H242<br>STOT SE 3, H335                          | Eye Irrit. 2; H319; C 1 - < 3 %<br>Skin Irrit. 2; H315; C 3 - < 10 %<br>Eye Dam. 1; H318; C 3 - < 10 %<br>STOT SE 3; H335; C >= 1 %<br>Skin Corr. 1B; H314; C >= 10 %<br>=====<br>dermal:ATE = 1.100 mg/kg |                         |
| methacrylic acid<br>79-41-4<br>201-204-4<br>01-2119463884-26                          | 1- < 3 %             | Acute Tox. 4, Oral, H302<br>Acute Tox. 3, Dermal, H311<br>Acute Tox. 4, Inhalation, H332<br>Skin Corr. 1A, H314<br>Eye Dam. 1, H318<br>STOT SE 3, H335                                                                           | STOT SE 3; H335; C >= 1 %<br>=====<br>dermal:ATE = 500 mg/kg<br>inhalation:ATE = 3,19 mg/l;dust/mist                                                                                                       |                         |
| Tributyl amine<br>102-82-9<br>203-058-7<br>01-2119474898-14                           | 0,1- < 1 %           | Acute Tox. 4, Oral, H302<br>Acute Tox. 2, Dermal, H310<br>Skin Irrit. 2, H315<br>Acute Tox. 1, Inhalation, H330                                                                                                                  |                                                                                                                                                                                                            |                         |
| 2-Hydroxyethyl methacrylate<br>868-77-9<br>212-782-2<br>01-2119490169-29              | 0,1- < 1 %           | Skin Irrit. 2, H315<br>Skin Sens. 1, H317<br>Eye Irrit. 2, H319                                                                                                                                                                  |                                                                                                                                                                                                            |                         |
| p-benzoquinone<br>106-51-4<br>203-405-2<br>01-2119933861-35                           | 0,01- < 0,1 %        | STOT SE 3, H335<br>Eye Irrit. 2, H319<br>Acute Tox. 3, Oral, H301<br>Acute Tox. 3, Inhalation, H331<br>Aquatic Acute 1, H400<br>Skin Irrit. 2, H315<br>Flam. Sol. 1, H228                                                        | M acute = 10                                                                                                                                                                                               |                         |

If no ATE values are displayed, please refer to LD/LC50 values in Section 11.

For full text of the H - statements and other abbreviations see section 16 "Other information".

## 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**

SKIN: Rash, Urticaria.

SKIN: Redness, inflammation.

RESPIRATORY: Irritation, coughing, shortness of breath, chest tightness.

After eye contact: Corrosive, may cause permanent damage to eyes (impairment of vision).

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

See section: Description of first aid measures

### **SECTION 5: Firefighting measures**

#### **5.1. Extinguishing media**

**Suitable extinguishing media:**  
water, carbon dioxide, foam, powder

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

High pressure waterjet

#### **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 oxides (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.

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

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

Avoid contact with skin and eyes.  
Wear protective equipment.  
Ensure adequate ventilation.  
Keep away from sources of ignition.

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

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

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

Dispose of contaminated material as waste according to Section 13.  
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.

#### **6.4. Reference to other sections**

See advice in section 8

### **SECTION 7: Handling and storage**

#### **7.1. Precautions for safe handling**

Avoid skin and eye contact.  
See advice in section 8

**Hygiene measures:**

- Good industrial hygiene practices should be observed.
- Wash hands before work breaks and after finishing work.
- Do not eat, drink or smoke while working.

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

- Ensure good ventilation/extraction.
- Refer to Technical Data Sheet.

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

Adhesive

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Occupational Exposure Limits

Valid for  
Great Britain

| Ingredient [Regulated substance]                              | ppm | mg/m <sup>3</sup> | Value type                        | Short term exposure limit category / Remarks | Regulatory list |
|---------------------------------------------------------------|-----|-------------------|-----------------------------------|----------------------------------------------|-----------------|
| Acrylic acid<br>79-10-7<br>[ACRYLIC ACID (PROP-2-ENOIC ACID)] | 10  | 29                | Time Weighted Average (TWA):      | Indicative                                   | ECTLV           |
| Acrylic acid<br>79-10-7<br>[ACRYLIC ACID (PROP-2-ENOIC ACID)] | 20  | 59                | Short Term Exposure Limit (STEL): | Indicative                                   | ECTLV           |
| Acrylic acid<br>79-10-7<br>[ACRYLIC ACID]                     | 10  | 29                | Time Weighted Average (TWA):      |                                              | EH40 WEL        |
| Acrylic acid<br>79-10-7<br>[Acrylic acid]                     | 20  | 59                | Short Term Exposure Limit (STEL): | 1 minute                                     | EH40 WEL        |
| Methacrylic acid<br>79-41-4<br>[METHACRYLIC ACID]             | 20  | 72                | Time Weighted Average (TWA):      |                                              | EH40 WEL        |
| Methacrylic acid<br>79-41-4<br>[METHACRYLIC ACID]             | 40  | 143               | Short Term Exposure Limit (STEL): | 15 minutes                                   | EH40 WEL        |

#### Occupational Exposure Limits

Valid for  
Ireland

| Ingredient [Regulated substance]                              | ppm | mg/m <sup>3</sup> | Value type                        | Short term exposure limit category / Remarks | Regulatory list |
|---------------------------------------------------------------|-----|-------------------|-----------------------------------|----------------------------------------------|-----------------|
| Acrylic acid<br>79-10-7<br>[ACRYLIC ACID (PROP-2-ENOIC ACID)] | 10  | 29                | Time Weighted Average (TWA):      | Indicative                                   | ECTLV           |
| Acrylic acid<br>79-10-7<br>[ACRYLIC ACID (PROP-2-ENOIC ACID)] | 20  | 59                | Short Term Exposure Limit (STEL): | Indicative                                   | ECTLV           |
| Acrylic acid<br>79-10-7<br>[ACRYLIC ACID]                     | 20  | 59                | Short Term Exposure Limit (STEL): | 1 minute<br>Indicative OELV                  | IR_OEL          |
| Acrylic acid<br>79-10-7<br>[ACRYLIC ACID]                     | 10  | 29                | Time Weighted Average (TWA):      | Indicative OELV                              | IR_OEL          |
| Methacrylic acid<br>79-41-4<br>[METHACRYLIC ACID]             | 20  | 70                | Time Weighted Average (TWA):      |                                              | IR_OEL          |
| Methacrylic acid<br>79-41-4<br>[METHACRYLIC ACID]             | 40  | 140               | Short Term Exposure Limit (STEL): | 15 minutes                                   | IR_OEL          |
| p-Benzoquinone<br>106-51-4<br>[QUINONE]                       | 0,1 | 0,4               | Time Weighted Average (TWA):      |                                              | 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 with propane-1,2-diol<br>27813-02-1 | aqua (freshwater)            |                    | 0,904 mg/l  |     |               |        |                                  |
| Methacrylic acid, monoester with propane-1,2-diol<br>27813-02-1 | aqua (marine water)          |                    | 0,904 mg/l  |     |               |        |                                  |
| Methacrylic acid, monoester with propane-1,2-diol<br>27813-02-1 | sewage treatment plant (STP) |                    | 10 mg/l     |     |               |        |                                  |
| Methacrylic acid, monoester with propane-1,2-diol<br>27813-02-1 | aqua (intermittent releases) |                    | 0,972 mg/l  |     |               |        |                                  |
| Methacrylic acid, monoester with propane-1,2-diol<br>27813-02-1 | sediment (freshwater)        |                    |             |     | 6,28 mg/kg    |        |                                  |
| Methacrylic acid, monoester with propane-1,2-diol<br>27813-02-1 | sediment (marine water)      |                    |             |     | 6,28 mg/kg    |        |                                  |
| Methacrylic acid, monoester with propane-1,2-diol<br>27813-02-1 | Soil                         |                    |             |     | 0,727 mg/kg   |        |                                  |
| Methacrylic acid, monoester with propane-1,2-diol<br>27813-02-1 | Marine water - intermittent  |                    | 0,972 mg/l  |     |               |        |                                  |
| Methacrylic acid, monoester with propane-1,2-diol<br>27813-02-1 | Air                          |                    |             |     |               |        | no hazard identified             |
| Methacrylic acid, monoester with propane-1,2-diol<br>27813-02-1 | Predator                     |                    |             |     |               |        | no potential for bioaccumulation |
| Acrylic acid<br>79-10-7                                         | aqua (freshwater)            |                    | 0,003 mg/l  |     |               |        |                                  |
| Acrylic acid<br>79-10-7                                         | aqua (marine water)          |                    | 0,0003 mg/l |     |               |        |                                  |
| Acrylic acid<br>79-10-7                                         | sewage treatment plant (STP) |                    | 0,9 mg/l    |     |               |        |                                  |
| Acrylic acid<br>79-10-7                                         | sediment (freshwater)        |                    |             |     | 0,0236 mg/kg  |        |                                  |
| Acrylic acid<br>79-10-7                                         | sediment (marine water)      |                    |             |     | 0,00236 mg/kg |        |                                  |
| Acrylic acid<br>79-10-7                                         | Soil                         |                    |             |     | 1 mg/kg       |        |                                  |
| Acrylic acid<br>79-10-7                                         | oral                         |                    |             |     | 0,03 g/kg     |        |                                  |
| Acrylic acid<br>79-10-7                                         | Air                          |                    |             |     |               |        | no hazard identified             |
| 2,2'-Ethylenedioxydiethyl dimethacrylate<br>109-16-0            | aqua (freshwater)            |                    | 0,164 mg/l  |     |               |        |                                  |
| 2,2'-Ethylenedioxydiethyl dimethacrylate<br>109-16-0            | aqua (marine water)          |                    | 0,0164 mg/l |     |               |        |                                  |
| 2,2'-Ethylenedioxydiethyl dimethacrylate<br>109-16-0            | sewage treatment plant (STP) |                    | 10 mg/l     |     |               |        |                                  |
| 2,2'-Ethylenedioxydiethyl dimethacrylate<br>109-16-0            | aqua (intermittent releases) |                    | 0,164 mg/l  |     |               |        |                                  |
| 2,2'-Ethylenedioxydiethyl dimethacrylate<br>109-16-0            | sediment (freshwater)        |                    |             |     | 1,85 mg/kg    |        |                                  |
| 2,2'-Ethylenedioxydiethyl dimethacrylate<br>109-16-0            | sediment (marine water)      |                    |             |     | 0,185 mg/kg   |        |                                  |
| 2,2'-Ethylenedioxydiethyl dimethacrylate<br>109-16-0            | Soil                         |                    |             |     | 0,274 mg/kg   |        |                                  |
| 2,2'-Ethylenedioxydiethyl dimethacrylate<br>109-16-0            | Air                          |                    |             |     |               |        | no hazard identified             |
| 2,2'-Ethylenedioxydiethyl dimethacrylate<br>109-16-0            | Predator                     |                    |             |     |               |        | no potential for bioaccumulation |
| .alpha.,.alpha.-Dimethylbenzyl hydroperoxide<br>80-15-9         | aqua (freshwater)            |                    | 0,0031 mg/l |     |               |        |                                  |

|                                                         |                              |  |              |  |              |  |                                  |
|---------------------------------------------------------|------------------------------|--|--------------|--|--------------|--|----------------------------------|
| .alpha.,.alpha.-Dimethylbenzyl hydroperoxide<br>80-15-9 | aqua (intermittent releases) |  | 0,031 mg/l   |  |              |  |                                  |
| .alpha.,.alpha.-Dimethylbenzyl hydroperoxide<br>80-15-9 | aqua (marine water)          |  | 0,00031 mg/l |  |              |  |                                  |
| .alpha.,.alpha.-Dimethylbenzyl hydroperoxide<br>80-15-9 | sewage treatment plant (STP) |  | 0,35 mg/l    |  |              |  |                                  |
| .alpha.,.alpha.-Dimethylbenzyl hydroperoxide<br>80-15-9 | sediment (freshwater)        |  |              |  | 0,023 mg/kg  |  |                                  |
| .alpha.,.alpha.-Dimethylbenzyl hydroperoxide<br>80-15-9 | sediment (marine water)      |  |              |  | 0,0023 mg/kg |  |                                  |
| .alpha.,.alpha.-Dimethylbenzyl hydroperoxide<br>80-15-9 | Soil                         |  |              |  | 0,0029 mg/kg |  |                                  |
| methacrylic acid<br>79-41-4                             | aqua (freshwater)            |  | 0,82 mg/l    |  |              |  |                                  |
| methacrylic acid<br>79-41-4                             | Freshwater - intermittent    |  | 0,45 mg/l    |  |              |  |                                  |
| methacrylic acid<br>79-41-4                             | aqua (marine water)          |  | 0,082 mg/l   |  |              |  |                                  |
| methacrylic acid<br>79-41-4                             | sewage treatment plant (STP) |  | 100 mg/l     |  |              |  |                                  |
| methacrylic acid<br>79-41-4                             | sediment (freshwater)        |  |              |  | 3,09 mg/kg   |  |                                  |
| methacrylic acid<br>79-41-4                             | sediment (marine water)      |  |              |  | 0,309 mg/kg  |  |                                  |
| methacrylic acid<br>79-41-4                             | Soil                         |  |              |  | 0,137 mg/kg  |  |                                  |
| methacrylic acid<br>79-41-4                             | Predator                     |  |              |  |              |  | no potential for bioaccumulation |
| Tributyl amine<br>102-82-9                              | aqua (freshwater)            |  | 0,008 mg/l   |  |              |  |                                  |
| Tributyl amine<br>102-82-9                              | aqua (marine water)          |  | 0,0008 mg/l  |  |              |  |                                  |
| Tributyl amine<br>102-82-9                              | aqua (intermittent releases) |  | 0,08 mg/l    |  |              |  |                                  |
| Tributyl amine<br>102-82-9                              | sewage treatment plant (STP) |  | 100 mg/l     |  |              |  |                                  |
| Tributyl amine<br>102-82-9                              | sediment (freshwater)        |  |              |  | 35,85 mg/kg  |  |                                  |
| Tributyl amine<br>102-82-9                              | sediment (marine water)      |  |              |  | 3,59 mg/kg   |  |                                  |
| Tributyl amine<br>102-82-9                              | Soil                         |  |              |  | 7,17 mg/kg   |  |                                  |
| 2-Hydroxyethyl methacrylate<br>868-77-9                 | aqua (freshwater)            |  | 0,482 mg/l   |  |              |  |                                  |
| 2-Hydroxyethyl methacrylate<br>868-77-9                 | aqua (marine water)          |  | 0,482 mg/l   |  |              |  |                                  |
| 2-Hydroxyethyl methacrylate<br>868-77-9                 | sewage treatment plant (STP) |  | 10 mg/l      |  |              |  |                                  |
| 2-Hydroxyethyl methacrylate<br>868-77-9                 | aqua (intermittent releases) |  | 1 mg/l       |  |              |  |                                  |
| 2-Hydroxyethyl methacrylate<br>868-77-9                 | sediment (freshwater)        |  |              |  | 3,79 mg/kg   |  |                                  |
| 2-Hydroxyethyl methacrylate<br>868-77-9                 | sediment (marine water)      |  |              |  | 3,79 mg/kg   |  |                                  |
| 2-Hydroxyethyl methacrylate<br>868-77-9                 | Soil                         |  |              |  | 0,476 mg/kg  |  |                                  |
| 2-Hydroxyethyl methacrylate<br>868-77-9                 | Predator                     |  |              |  |              |  | no potential for bioaccumulation |
| 2-Hydroxyethyl methacrylate<br>868-77-9                 | Marine water - intermittent  |  | 1 mg/l       |  |              |  |                                  |

**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  | no hazard identified             |
| Methacrylic acid, monoester with propane-1,2-diol<br>27813-02-1 | Workers            | Inhalation        | Long term exposure - systemic effects     |               | 14,7 mg/m3 | no hazard identified             |
| Methacrylic acid, monoester with propane-1,2-diol<br>27813-02-1 | General population | dermal            | Long term exposure - systemic effects     |               | 2,5 mg/kg  | no hazard identified             |
| Methacrylic acid, monoester with propane-1,2-diol<br>27813-02-1 | General population | Inhalation        | Long term exposure - systemic effects     |               | 8,8 mg/m3  | no hazard identified             |
| Methacrylic acid, monoester with propane-1,2-diol<br>27813-02-1 | General population | oral              | Long term exposure - systemic effects     |               | 2,5 mg/kg  | no hazard identified             |
| Acrylic acid<br>79-10-7                                         | Workers            | inhalation        | Long term exposure - local effects        |               | 30 mg/m3   | no hazard identified             |
| Acrylic acid<br>79-10-7                                         | Workers            | inhalation        | Acute/short term exposure - local effects |               | 30 mg/m3   | no hazard identified             |
| Acrylic acid<br>79-10-7                                         | Workers            | dermal            | Acute/short term exposure - local effects |               | 1 mg/cm2   | no hazard identified             |
| Acrylic acid<br>79-10-7                                         | General population | dermal            | Acute/short term exposure - local effects |               | 1 mg/cm2   | no hazard identified             |
| Acrylic acid<br>79-10-7                                         | General population | inhalation        | Acute/short term exposure - local effects |               | 3,6 mg/m3  | no hazard identified             |
| Acrylic acid<br>79-10-7                                         | General population | inhalation        | Long term exposure - local effects        |               | 3,6 mg/m3  | no hazard identified             |
| 2,2'-Ethylenedioxydiethyl dimethacrylate<br>109-16-0            | Workers            | inhalation        | Long term exposure - systemic effects     |               | 48,5 mg/m3 | no hazard identified             |
| 2,2'-Ethylenedioxydiethyl dimethacrylate<br>109-16-0            | Workers            | dermal            | Long term exposure - systemic effects     |               | 13,9 mg/kg | no hazard identified             |
| 2,2'-Ethylenedioxydiethyl dimethacrylate<br>109-16-0            | General population | inhalation        | Long term exposure - systemic effects     |               | 14,5 mg/m3 | no hazard identified             |
| 2,2'-Ethylenedioxydiethyl dimethacrylate<br>109-16-0            | General population | dermal            | Long term exposure - systemic effects     |               | 8,33 mg/kg | no hazard identified             |
| 2,2'-Ethylenedioxydiethyl dimethacrylate<br>109-16-0            | General population | oral              | Long term exposure - systemic effects     |               | 8,33 mg/kg | no hazard identified             |
| .alpha.,.alpha.-Dimethylbenzyl hydroperoxide<br>80-15-9         | Workers            | inhalation        | Long term exposure - systemic effects     |               | 6 mg/m3    |                                  |
| methacrylic acid<br>79-41-4                                     | Workers            | Inhalation        | Long term exposure - local effects        |               | 88 mg/m3   | no potential for bioaccumulation |
| methacrylic acid<br>79-41-4                                     | Workers            | Inhalation        | Long term exposure - systemic effects     |               | 29,6 mg/m3 | no potential for bioaccumulation |
| methacrylic acid<br>79-41-4                                     | Workers            | dermal            | Long term exposure - systemic effects     |               | 4,25 mg/kg | no potential for bioaccumulation |
| methacrylic acid<br>79-41-4                                     | General population | Inhalation        | Long term exposure - local effects        |               | 6,55 mg/m3 | no potential for bioaccumulation |
| methacrylic acid<br>79-41-4                                     | General population | Inhalation        | Long term exposure - systemic effects     |               | 6,3 mg/m3  | no potential for bioaccumulation |
| methacrylic acid<br>79-41-4                                     | General population | dermal            | Long term exposure - systemic effects     |               | 2,55 mg/kg | no potential for bioaccumulation |
| Tributyl amine<br>102-82-9                                      | Workers            | inhalation        | Long term exposure - systemic effects     |               | 15,2 mg/m3 |                                  |

|                                         |                    |            |                                           |  |            |                                  |
|-----------------------------------------|--------------------|------------|-------------------------------------------|--|------------|----------------------------------|
| Tributyl amine<br>102-82-9              | Workers            | inhalation | Long term exposure - local effects        |  | 15,2 mg/m3 |                                  |
| Tributyl amine<br>102-82-9              | Workers            | inhalation | Acute/short term exposure - local effects |  | 15,2 mg/m3 |                                  |
| 2-Hydroxyethyl methacrylate<br>868-77-9 | Workers            | dermal     | Long term exposure - systemic effects     |  | 1,3 mg/kg  | no potential for bioaccumulation |
| 2-Hydroxyethyl methacrylate<br>868-77-9 | Workers            | Inhalation | Long term exposure - systemic effects     |  | 4,9 mg/m3  | no potential for bioaccumulation |
| 2-Hydroxyethyl methacrylate<br>868-77-9 | General population | dermal     | Long term exposure - systemic effects     |  | 0,83 mg/kg | no potential for bioaccumulation |
| 2-Hydroxyethyl methacrylate<br>868-77-9 | General population | Inhalation | Long term exposure - systemic effects     |  | 2,9 mg/m3  | no potential for bioaccumulation |
| 2-Hydroxyethyl methacrylate<br>868-77-9 | General population | oral       | Long term exposure - systemic effects     |  | 0,83 mg/kg | no potential for bioaccumulation |

**Biological Exposure Indices:**

None

**8.2. Exposure controls:**

Engineering controls:

Ensure good ventilation/extraction.

Respiratory protection:

Ensure adequate ventilation.

An approved mask or respirator fitted 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 &gt; 30 minutes permeation time as per EN 374):

nitrile rubber (NBR; &gt;= 0.4 mm thickness)

Suitable materials for longer, direct contact (recommended: protection index 6, corresponding to &gt; 480 minutes permeation time as per EN 374):

nitrile rubber (NBR; &gt;= 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 should be worn if there is a risk of splashing.

Protective eye equipment should conform to EN166.

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**

Delivery form

liquid

Colour

Light amber, Clear

|                                                             |                                                                                                                                     |
|-------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| Odor                                                        | mild, acrylic                                                                                                                       |
| Physical state                                              | liquid                                                                                                                              |
| Melting point                                               | Not applicable, Product is a liquid                                                                                                 |
| Solidification temperature                                  | < -25 °C (< -13 °F)                                                                                                                 |
| Initial boiling point                                       | 149 °C (300.2 °F)                                                                                                                   |
| Flammability                                                | The product is not flammable.                                                                                                       |
| Explosive limits                                            | Not applicable, The product is not flammable.                                                                                       |
| Flash point                                                 | > 100 °C (> 212 °F)                                                                                                                 |
| Auto-ignition temperature                                   | Not applicable, The product is not flammable.                                                                                       |
| Decomposition temperature                                   | Not applicable, Substance/mixture is not self-reactive, no organic peroxide and does not decompose under foreseen conditions of use |
| pH                                                          | Not applicable, Product is non-soluble (in water).                                                                                  |
| Viscosity (kinematic)<br>(40 °C (104 °F); )                 | > 20,5 mm <sup>2</sup> /s                                                                                                           |
| Solubility (qualitative)<br>(20 °C (68 °F); Solvent: Water) | Not miscible                                                                                                                        |
| Partition coefficient: n-octanol/water                      | Not applicable                                                                                                                      |
| Vapour pressure<br>(20 °C (68 °F))                          | Mixture<br>< 4 mbar                                                                                                                 |
| Density<br>(20 °C (68 °F))                                  | 1,1 g/cm <sup>3</sup> None                                                                                                          |
| Relative vapour density:<br>(20 °C)                         | > 1                                                                                                                                 |
| Particle characteristics                                    | Heavier than air<br>Not applicable<br>Product is a liquid                                                                           |

## 9.2. Other information

Other information not applicable for this product

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Reacts with strong oxidants.  
Acids.  
Reducing agents.  
Strong bases.

### 10.2. Chemical stability

Stable under recommended storage conditions.

### 10.3. Possibility of hazardous reactions

See section reactivity

### 10.4. Conditions to avoid

Stable under normal conditions of storage and use.

### 10.5. Incompatible materials

See section reactivity.

### 10.6. Hazardous decomposition products

carbon oxides.  
Hydrocarbons  
nitrogen oxides  
Rapid polymerisation may generate excessive heat and pressure.

## SECTION 11: Toxicological information

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

#### 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)                          |
| Acrylic acid<br>79-10-7                              | LD50          | 1.500 mg/kg   | rat     | equivalent or similar to OECD Guideline 401 (Acute Oral Toxicity) |
| 2,2'-Ethylenedioxydiethyl dimethacrylate<br>109-16-0 | LD50          | 10.837 mg/kg  | rat     | not specified                                                     |
| Cumene hydroperoxide<br>80-15-9                      | LD50          | 382 mg/kg     | rat     | other guideline:                                                  |
| methacrylic acid<br>79-41-4                          | LD50          | 1.320 mg/kg   | rat     | equivalent or similar to OECD Guideline 401 (Acute Oral Toxicity) |
| Tributyl amine<br>102-82-9                           | LD50          | 420 mg/kg     | rat     | not specified                                                     |
| 2-Hydroxyethyl methacrylate<br>868-77-9              | LD50          | 5.564 mg/kg   | rat     | FDA Guideline                                                     |
| p-benzoquinone<br>106-51-4                           | LD50          | 130 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             |
| Acrylic acid<br>79-10-7                              | Acute toxicity estimate (ATE) | 1.100 mg/kg       |         | Expert judgement          |
| 2,2'-Ethylenedioxydiethyl dimethacrylate<br>109-16-0 | Acute toxicity estimate (ATE) | > 5.000 mg/kg     |         | Expert judgement          |
| Cumene hydroperoxide<br>80-15-9                      | Acute toxicity estimate (ATE) | 1.100 mg/kg       |         | Expert judgement          |
| methacrylic acid<br>79-41-4                          | LD50                          | 500 - 1.000 mg/kg | rabbit  | Dermal Toxicity Screening |
| methacrylic acid<br>79-41-4                          | Acute toxicity estimate (ATE) | 500 mg/kg         |         | Expert judgement          |
| Tributyl amine<br>102-82-9                           | LD50                          | 195 mg/kg         | rabbit  | not specified             |
| 2-Hydroxyethyl methacrylate<br>868-77-9              | LD50                          | > 5.000 mg/kg     | rabbit  | not specified             |
| p-benzoquinone<br>106-51-4                           | LD50                          | > 2.000 mg/kg     | rat     | 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 atmosphere | Exposure<br>time | Species | Method                                                                        |
|---------------------------------------------------------|----------------------------------------|-----------------|-----------------|------------------|---------|-------------------------------------------------------------------------------|
| Acrylic acid<br>79-10-7                                 | LC0                                    | 5,1 mg/l        | vapour          | 4 h              | rat     | equivalent or similar to OECD<br>Guideline 403 (Acute<br>Inhalation Toxicity) |
| Acrylic acid<br>79-10-7                                 | Acute<br>toxicity<br>estimate<br>(ATE) | 11 mg/l         | vapour          |                  |         | Expert judgement                                                              |
| 2,2'-Ethylenedioxydiethyl<br>dimethacrylate<br>109-16-0 | Acute<br>toxicity<br>estimate<br>(ATE) | 28,17 mg/l      | dust/mist       |                  |         | Expert judgement                                                              |
| Cumene hydroperoxide<br>80-15-9                         | LC50                                   | 1,370 mg/l      | vapour          | 4 h              | rat     | not specified                                                                 |
| methacrylic acid<br>79-41-4                             | LC50                                   | 3,19 - 6,5 mg/l | dust/mist       | 4 h              | rat     | equivalent or similar to OECD<br>Guideline 403 (Acute<br>Inhalation Toxicity) |
| methacrylic acid<br>79-41-4                             | Acute<br>toxicity<br>estimate<br>(ATE) | 3,19 mg/l       | dust/mist       |                  |         | Expert judgement                                                              |
| Tributyl amine<br>102-82-9                              | LC50                                   | 0,5 mg/l        | vapour          | 4 h              | rat     | OECD Guideline 403 (Acute<br>Inhalation Toxicity)                             |

**Skin corrosion/irritation:**

Classified as Skin irritation Category 2, H315 based on Expert Judgement and experimental data of an OECD 431 test or based on analogy to similar products tested.

| Hazardous substances<br>CAS-No.                         | Result                         | Exposure<br>time | Species | Method                                                   |
|---------------------------------------------------------|--------------------------------|------------------|---------|----------------------------------------------------------|
| Hydroxypropyl<br>methacrylate<br>27813-02-1             | not irritating                 | 24 h             | rabbit  | Draize Test                                              |
| Acrylic acid<br>79-10-7                                 | Sub-Category<br>1A (corrosive) | 3 min            | rabbit  | OECD Guideline 404 (Acute Dermal Irritation / Corrosion) |
| 2,2'-Ethylenedioxydiethyl<br>dimethacrylate<br>109-16-0 | not irritating                 | 24 h             | rabbit  | Draize Test                                              |
| 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 Irritation / Corrosion) |
| 2-Hydroxyethyl<br>methacrylate<br>868-77-9              | slightly<br>irritating         | 24 h             | rabbit  | Draize Test                                              |

**Serious eye damage/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             | Category 2B<br>(mildly irritating to eyes)      |                  | rabbit  | Draize Test                                           |
| Acrylic acid<br>79-10-7                              | Category 1<br>(irreversible effects on the eye) |                  | rabbit  | BASF Test                                             |
| 2,2'-Ethylenedioxydiethyl dimethacrylate<br>109-16-0 | not irritating                                  |                  | rabbit  | OECD Guideline 405 (Acute Eye Irritation / Corrosion) |
| methacrylic acid<br>79-41-4                          | corrosive                                       |                  | rabbit  | Draize Test                                           |
| 2-Hydroxyethyl methacrylate<br>868-77-9              | Category 2B<br>(mildly irritating to eyes)      |                  | 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                                                                                   |
|------------------------------------------------------|-----------------|------------------------------------|------------|------------------------------------------------------------------------------------------|
| Hydroxypropyl methacrylate<br>27813-02-1             | not sensitising | Mouse local lymphnode assay (LLNA) | mouse      | equivalent or similar to OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay) |
| Hydroxypropyl methacrylate<br>27813-02-1             | sensitising     | Guinea pig maximisation test       | guinea pig | not specified                                                                            |
| Acrylic acid<br>79-10-7                              | not sensitising | Freund's complete adjuvant test    | guinea pig | Klecak Method                                                                            |
| Acrylic acid<br>79-10-7                              | not sensitising | Split adjuvant test                | guinea pig | Maguire Method                                                                           |
| 2,2'-Ethylenedioxydiethyl dimethacrylate<br>109-16-0 | sensitising     | Mouse local lymphnode assay (LLNA) | mouse      | OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)                          |
| methacrylic acid<br>79-41-4                          | not sensitising | Buehler test                       | guinea pig | equivalent or similar to OECD Guideline 406 (Skin Sensitisation)                         |
| 2-Hydroxyethyl methacrylate<br>868-77-9              | not sensitising | Buehler test                       | guinea pig | Buehler test                                                                             |
| 2-Hydroxyethyl methacrylate<br>868-77-9              | sensitising     | Guinea pig maximisation test       | guinea pig | Magnusson and Kligman Method                                                             |

**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<br>methacrylate<br>27813-02-1             | negative | bacterial reverse<br>mutation assay (e.g<br>Ames test)                                            | with and without                           |         | OECD Guideline 471<br>(Bacterial Reverse Mutation<br>Assay)                                                                                          |
| Hydroxypropyl<br>methacrylate<br>27813-02-1             | positive | in vitro mammalian<br>chromosome<br>aberration test                                               | with and without                           |         | Chromosome Aberration Test                                                                                                                           |
| Hydroxypropyl<br>methacrylate<br>27813-02-1             | negative | mammalian cell<br>gene mutation assay                                                             | with and without                           |         | OECD Guideline 476 (In vitro<br>Mammalian Cell Gene<br>Mutation Test)                                                                                |
| Acrylic acid<br>79-10-7                                 | negative | bacterial reverse<br>mutation assay (e.g<br>Ames test)                                            | with and without                           |         | equivalent or similar to OECD<br>Guideline 471 (Bacterial<br>Reverse Mutation Assay)                                                                 |
| Acrylic acid<br>79-10-7                                 | negative | mammalian cell<br>gene mutation assay                                                             | with and without                           |         | equivalent or similar to OECD<br>Guideline 476 (In vitro<br>Mammalian Cell Gene<br>Mutation Test)                                                    |
| Acrylic acid<br>79-10-7                                 | negative | DNA damage and<br>repair assay,<br>unscheduled DNA<br>synthesis in<br>mammalian cells in<br>vitro | without                                    |         | equivalent or similar to OECD<br>Guideline 482 (Genetic<br>Toxicology: DNA Damage<br>and Repair, Unscheduled<br>DNA Synthesis in Mammalian<br>Cells) |
| 2,2'-Ethylenedioxydiethyl<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<br>Mutation Test)                                                                                |
| 2,2'-Ethylenedioxydiethyl<br>dimethacrylate<br>109-16-0 | negative | bacterial reverse<br>mutation assay (e.g<br>Ames test)                                            | with and without                           |         | OECD Guideline 471<br>(Bacterial Reverse Mutation<br>Assay)                                                                                          |
| 2,2'-Ethylenedioxydiethyl<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<br>Micronucleus Test)                                                                                 |
| Cumene hydroperoxide<br>80-15-9                         | positive | bacterial reverse<br>mutation assay (e.g<br>Ames test)                                            | without                                    |         | OECD Guideline 471<br>(Bacterial Reverse Mutation<br>Assay)                                                                                          |
| methacrylic acid<br>79-41-4                             | negative | bacterial reverse<br>mutation assay (e.g<br>Ames test)                                            | with and without                           |         | equivalent or similar to OECD<br>Guideline 471 (Bacterial<br>Reverse Mutation Assay)                                                                 |
| 2-Hydroxyethyl<br>methacrylate<br>868-77-9              | negative | bacterial reverse<br>mutation assay (e.g<br>Ames test)                                            | with and without                           |         | OECD Guideline 471<br>(Bacterial Reverse Mutation<br>Assay)                                                                                          |
| 2-Hydroxyethyl<br>methacrylate<br>868-77-9              | positive | in vitro mammalian<br>chromosome<br>aberration test                                               | with and without                           |         | OECD Guideline 473 (In vitro<br>Mammalian Chromosome<br>Aberration Test)                                                                             |
| 2-Hydroxyethyl<br>methacrylate<br>868-77-9              | negative | mammalian cell<br>gene mutation assay                                                             | with and without                           |         | OECD Guideline 476 (In vitro<br>Mammalian Cell Gene<br>Mutation Test)                                                                                |

**Carcinogenicity**

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

| Hazardous components<br>CAS-No.             | Result           | Route of<br>application | Exposure<br>time /<br>Frequency<br>of treatment | Species | Sex         | Method                                                                      |
|---------------------------------------------|------------------|-------------------------|-------------------------------------------------|---------|-------------|-----------------------------------------------------------------------------|
| Hydroxypropyl<br>methacrylate<br>27813-02-1 | not carcinogenic | inhalation              | 2 y<br>6 h/d, 5 d/w                             | rat     | male        | equivalent or similar<br>OECD Guideline 451<br>(Carcinogenicity<br>Studies) |
| Acrylic acid<br>79-10-7                     | not carcinogenic | oral: drinking<br>water | 26 - 28 m<br>continuously                       | rat     | male/female | OECD Guideline 451<br>(Carcinogenicity<br>Studies)                          |
| Acrylic acid<br>79-10-7                     | not carcinogenic | dermal                  | 21 m<br>3 times/w                               | mouse   | male/female | not specified                                                               |
| methacrylic acid<br>79-41-4                 | not carcinogenic | inhalation              | 2 y                                             | mouse   | male/female | OECD Guideline 451<br>(Carcinogenicity<br>Studies)                          |
| 2-Hydroxyethyl<br>methacrylate<br>868-77-9  | not carcinogenic | inhalation              | 2 y<br>6 h/d, 5 d/w                             | rat     | female      | equivalent or similar<br>OECD Guideline 451<br>(Carcinogenicity<br>Studies) |
| 2-Hydroxyethyl<br>methacrylate<br>868-77-9  | not carcinogenic | inhalation              | 2 y<br>6 h/d, 5 d/w                             | rat     | male        | equivalent or similar<br>OECD Guideline 451<br>(Carcinogenicity<br>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 / Value                                               | Test type                   | Route of<br>application    | Species | Method                                                                                                                                  |
|---------------------------------------------------------|--------------------------------------------------------------|-----------------------------|----------------------------|---------|-----------------------------------------------------------------------------------------------------------------------------------------|
| Hydroxypropyl<br>methacrylate<br>27813-02-1             | NOAEL P 300 mg/kg<br>NOAEL F1 1.000 mg/kg                    | screening                   | oral: gavage               | rat     | OECD Guideline 422<br>(Combined Repeated Dose<br>Toxicity Study with the<br>Reproduction /<br>Developmental Toxicity<br>Screening Test) |
| Hydroxypropyl<br>methacrylate<br>27813-02-1             | NOAEL P 400 mg/kg<br>NOAEL F1 400 mg/kg                      | two-<br>generation<br>study | oral: gavage               | rat     | OECD Guideline 416 (Two-<br>Generation Reproduction<br>Toxicity Study)                                                                  |
| Acrylic acid<br>79-10-7                                 | NOAEL P 83 mg/kg<br>NOAEL F1 250 mg/kg                       | one-<br>generation<br>study | oral:<br>drinking<br>water | rat     | equivalent or similar to<br>OECD Guideline 415 (One-<br>Generation Reproduction<br>Toxicity Study)                                      |
| Acrylic acid<br>79-10-7                                 | NOAEL P 240 mg/kg<br>NOAEL F1 53 mg/kg<br>NOAEL F2 53 mg/kg  | two-<br>generation<br>study | oral:<br>drinking<br>water | rat     | OECD Guideline 416 (Two-<br>Generation Reproduction<br>Toxicity Study)                                                                  |
| 2,2'-Ethylenedioxydiethyl<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<br>(Combined Repeated Dose<br>Toxicity Study with the<br>Reproduction /<br>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-<br>Generation Reproduction<br>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     | equivalent or similar to<br>OECD Guideline 422<br>(Combined Repeated Dose<br>Toxicity Study)                                            |

**STOT-single exposure:**

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

| Hazardous substances<br>CAS-No. | Assessment                        | Route of<br>exposure | Target Organs | Remarks |
|---------------------------------|-----------------------------------|----------------------|---------------|---------|
| Acrylic acid<br>79-10-7         | May cause respiratory irritation. |                      |               |         |
| methacrylic acid<br>79-41-4     | May cause respiratory irritation. |                      |               |         |

**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               | 49 d<br>daily                                | rat     | OECD Guideline 422<br>(Combined Repeated<br>Dose Toxicity Study with<br>the Reproduction /<br>Developmental Toxicity<br>Screening Test) |
| Hydroxypropyl<br>methacrylate<br>27813-02-1             | NOAEL 0,352 mg/l  | inhalation                 | 90 d<br>6 h/d, 5 d/w                         | rat     | OECD Guideline 413<br>(Subchronic Inhalation<br>Toxicity: 90-Day)                                                                       |
| Acrylic acid<br>79-10-7                                 | NOAEL 40 mg/kg    | oral:<br>drinking<br>water | 12 m<br>daily                                | rat     | equivalent or similar to<br>OECD Guideline 452<br>(Chronic Toxicity<br>Studies)                                                         |
| Acrylic acid<br>79-10-7                                 | NOAEL 0,015 mg/l  | inhalation:<br>vapour      | 90 d<br>6 h/d, 5 d/w                         | mouse   | equivalent or similar to<br>OECD Guideline 413<br>(Subchronic Inhalation<br>Toxicity: 90-Day)                                           |
| 2,2'-Ethylenedioxydiethyl<br>dimethacrylate<br>109-16-0 | NOAEL 1.000 mg/kg | oral: gavage               | daily                                        | rat     | OECD Guideline 422<br>(Combined Repeated<br>Dose Toxicity Study with<br>the Reproduction /<br>Developmental Toxicity<br>Screening Test) |
| Cumene hydroperoxide<br>80-15-9                         |                   | inhalation:<br>aerosol     | 6 h/d<br>5 d/w                               | rat     | not specified                                                                                                                           |
| methacrylic acid<br>79-41-4                             |                   | inhalation                 | 90 d<br>6 h/d, 5 d/w                         | rat     | OECD Guideline 413<br>(Subchronic Inhalation<br>Toxicity: 90-Day)                                                                       |
| Tributyl amine<br>102-82-9                              | NOAEL 75 mg/kg    | oral: gavage               | 13 weeks<br>daily                            | rat     | OECD Guideline 408<br>(Repeated Dose 90-Day<br>Oral Toxicity in Rodents)                                                                |
| 2-Hydroxyethyl<br>methacrylate<br>868-77-9              | NOAEL 100 mg/kg   | oral: gavage               | 49 d<br>daily                                | rat     | OECD Guideline 422<br>(Combined Repeated<br>Dose Toxicity Study with<br>the Reproduction /<br>Developmental Toxicity<br>Screening Test) |
| 2-Hydroxyethyl<br>methacrylate<br>868-77-9              | NOAEL 0,352 mg/l  | inhalation                 | 90 d<br>6 h/d, 5 d/w                         | rat     | OECD Guideline 413<br>(Subchronic Inhalation<br>Toxicity: 90-Day)                                                                       |

**Aspiration hazard:**

No data available.

**11.2 Information on other hazards**

not applicable

## 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.

The table below presents the data of the classified substances present in the mixture.

| Hazardous substances<br>CAS-No.                         | Value<br>type | Value             | Exposure time | Species                                            | Method                                                      |
|---------------------------------------------------------|---------------|-------------------|---------------|----------------------------------------------------|-------------------------------------------------------------|
| Hydroxypropyl methacrylate<br>27813-02-1                | LC50          | 493 mg/l          | 48 h          | Leuciscus idus melanotus                           | DIN 38412-15                                                |
| Acrylic acid<br>79-10-7                                 | LC50          | 27 mg/l           | 96 h          | Salmo gairdneri (new name:<br>Oncorhynchus mykiss) | EPA OTS 797.1400 (Fish<br>Acute Toxicity Test)              |
| Acrylic acid<br>79-10-7                                 | NOEC          | >= 10,1 mg/l      | 45 d          | Oryzias latipes                                    | OECD Guideline 210 (fish<br>early lite stage toxicity test) |
| 2,2'-Ethylenedioxydiethyl<br>dimethacrylate<br>109-16-0 | LC50          | 16,4 mg/l         | 96 h          | Danio rerio                                        | OECD Guideline 203 (Fish,<br>Acute Toxicity Test)           |
| Cumene hydroperoxide<br>80-15-9                         | LC50          | 3,9 mg/l          | 96 h          | Oncorhynchus mykiss                                | OECD Guideline 203 (Fish,<br>Acute 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<br>Acute Toxicity Test)              |
| methacrylic acid<br>79-41-4                             | NOEC          | 10 mg/l           | 35 d          | Danio rerio                                        | OECD Guideline 210 (fish<br>early lite stage toxicity test) |
| Tributyl amine<br>102-82-9                              | LC50          | 60,2 mg/l         | 48 h          | Leuciscus idus                                     | DIN 38412-15                                                |
| 2-Hydroxyethyl methacrylate<br>868-77-9                 | LC50          | > 100 mg/l        | 96 h          | Oryzias latipes                                    | OECD Guideline 203 (Fish,<br>Acute Toxicity Test)           |
| p-benzoquinone<br>106-51-4                              | LC50          | 0,04 - 0,125 mg/l | 96 h          | Oncorhynchus mykiss                                | not specified                                               |

#### Toxicity (aquatic invertebrates):

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

The table below presents the data of the classified substances present in the mixture.

| Hazardous substances<br>CAS-No.          | Value<br>type | Value      | Exposure time | Species       | Method                                                                                    |
|------------------------------------------|---------------|------------|---------------|---------------|-------------------------------------------------------------------------------------------|
| Hydroxypropyl methacrylate<br>27813-02-1 | EC50          | > 143 mg/l | 48 h          | Daphnia magna | OECD Guideline 202<br>(Daphnia sp. Acute<br>Immobilisation Test)                          |
| Acrylic acid<br>79-10-7                  | EC50          | 95 mg/l    | 48 h          | Daphnia magna | EPA OTS 797.1300<br>(Aquatic Invertebrate Acute<br>Toxicity Test, Freshwater<br>Daphnids) |
| Cumene hydroperoxide<br>80-15-9          | EC50          | 18,84 mg/l | 48 h          | Daphnia magna | OECD Guideline 202<br>(Daphnia sp. Acute<br>Immobilisation Test)                          |
| methacrylic acid<br>79-41-4              | EC50          | > 130 mg/l | 48 h          | Daphnia magna | EPA OTS 797.1300<br>(Aquatic Invertebrate Acute<br>Toxicity Test, Freshwater<br>Daphnids) |
| Tributyl amine<br>102-82-9               | EC50          | 8 mg/l     | 48 h          | Daphnia magna | OECD Guideline 202<br>(Daphnia sp. Acute<br>Immobilisation Test)                          |
| 2-Hydroxyethyl methacrylate<br>868-77-9  | EC50          | 380 mg/l   | 48 h          | Daphnia magna | OECD Guideline 202<br>(Daphnia sp. Acute<br>Immobilisation Test)                          |
| p-benzoquinone<br>106-51-4               | EC50          | 0,13 mg/l  | 48 h          | Daphnia magna | OECD Guideline 202<br>(Daphnia sp. Acute<br>Immobilisation Test)                          |

#### Chronic toxicity (aquatic invertebrates):

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

The table below presents the data of the classified substances present in the mixture.

| <b>Hazardous substances<br/>CAS-No.</b>                 | <b>Value<br/>type</b> | <b>Value</b> | <b>Exposure time</b> | <b>Species</b> | <b>Method</b>                                          |
|---------------------------------------------------------|-----------------------|--------------|----------------------|----------------|--------------------------------------------------------|
| Hydroxypropyl methacrylate<br>27813-02-1                | NOEC                  | 45,2 mg/l    | 21 d                 | Daphnia magna  | OECD 211 (Daphnia<br>magna, Reproduction Test)         |
| Acrylic acid<br>79-10-7                                 | NOEC                  | 19 mg/l      | 21 d                 | Daphnia magna  | EPA OTS 797.1330<br>(Daphnid Chronic Toxicity<br>Test) |
| 2,2'-Ethylenedioxydiethyl<br>dimethacrylate<br>109-16-0 | NOEC                  | 32 mg/l      | 21 d                 | Daphnia magna  | OECD 211 (Daphnia<br>magna, Reproduction Test)         |
| methacrylic acid<br>79-41-4                             | NOEC                  | 53 mg/l      | 21 d                 | Daphnia magna  | OECD 211 (Daphnia<br>magna, Reproduction Test)         |
| 2-Hydroxyethyl methacrylate<br>868-77-9                 | NOEC                  | 24,1 mg/l    | 21 d                 | Daphnia magna  | OECD 211 (Daphnia<br>magna, Reproduction Test)         |

**Toxicity (Algae):**

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

The table below presents the data of the classified substances present in the mixture.

| Hazardous substances<br>CAS-No.                         | Value<br>type | Value       | Exposure time | Species                                                                     | Method                                               |
|---------------------------------------------------------|---------------|-------------|---------------|-----------------------------------------------------------------------------|------------------------------------------------------|
| Hydroxypropyl methacrylate<br>27813-02-1                | EC50          | > 97,2 mg/l | 72 h          | Pseudokirchneriella subcapitata                                             | OECD Guideline 201 (Alga,<br>Growth Inhibition Test) |
| Hydroxypropyl methacrylate<br>27813-02-1                | NOEC          | > 97,2 mg/l | 72 h          | Pseudokirchneriella subcapitata                                             | OECD Guideline 201 (Alga,<br>Growth Inhibition Test) |
| Acrylic acid<br>79-10-7                                 | EC10          | 0,03 mg/l   | 72 h          | Scenedesmus subspicatus (new<br>name: Desmodesmus<br>subspicatus)           | EU Method C.3 (Algal<br>Inhibition test)             |
| Acrylic acid<br>79-10-7                                 | EC50          | 0,13 mg/l   | 72 h          | Scenedesmus subspicatus (new<br>name: Desmodesmus<br>subspicatus)           | EU Method C.3 (Algal<br>Inhibition test)             |
| 2,2'-Ethylenedioxydiethyl<br>dimethacrylate<br>109-16-0 | EC50          | > 100 mg/l  | 72 h          | Pseudokirchneriella 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          | Pseudokirchneriella subcapitata                                             | OECD Guideline 201 (Alga,<br>Growth Inhibition Test) |
| Cumene hydroperoxide<br>80-15-9                         | EC50          | 3,1 mg/l    | 72 h          | Desmodesmus subspicatus<br>(reported as Scenedesmus<br>subspicatus)         | OECD Guideline 201 (Alga,<br>Growth Inhibition Test) |
| Cumene hydroperoxide<br>80-15-9                         | NOEC          | 1 mg/l      | 72 h          | Desmodesmus subspicatus<br>(reported as Scenedesmus<br>subspicatus)         | 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: Pseudokirchneriella<br>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: Pseudokirchneriella<br>subcapitata) | OECD Guideline 201 (Alga,<br>Growth Inhibition Test) |
| Tributyl amine<br>102-82-9                              | EC10          | 1,378 mg/l  | 72 h          | Scenedesmus subspicatus (new<br>name: Desmodesmus<br>subspicatus)           | OECD Guideline 201 (Alga,<br>Growth Inhibition Test) |
| Tributyl amine<br>102-82-9                              | EC50          | 8,215 mg/l  | 72 h          | Scenedesmus subspicatus (new<br>name: Desmodesmus<br>subspicatus)           | 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: Pseudokirchneriella<br>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: Pseudokirchneriella<br>subcapitata) | OECD Guideline 201 (Alga,<br>Growth Inhibition Test) |
| p-benzoquinone<br>106-51-4                              | EC50          | 1,5 mg/l    | 72 h          | Scenedesmus subspicatus (new<br>name: Desmodesmus<br>subspicatus)           | OECD Guideline 201 (Alga,<br>Growth Inhibition Test) |

#### Toxicity (microorganisms):

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

The table below presents the data of the classified substances present in the mixture.

| Hazardous substances<br>CAS-No.          | Value<br>type | Value        | Exposure time | Species                    | Method                                                                            |
|------------------------------------------|---------------|--------------|---------------|----------------------------|-----------------------------------------------------------------------------------|
| Hydroxypropyl methacrylate<br>27813-02-1 | EC10          | 1.140 mg/l   | 16 h          |                            | not specified                                                                     |
| Acrylic acid<br>79-10-7                  | EC20          | 900 mg/l     | 30 min        | activated sludge, domestic | ISO 8192 (Test for<br>Inhibition of Oxygen<br>Consumption by Activated<br>Sludge) |
| Cumene hydroperoxide<br>80-15-9          | EC10          | 70 mg/l      | 30 min        | not specified              | not specified                                                                     |
| methacrylic acid<br>79-41-4              | EC10          | 100 mg/l     | 17 h          | Pseudomonas putida         | DIN 38412, part 8<br>(Pseudomonas<br>Zellvermehrungshemm-<br>Test)                |
| Tributyl amine<br>102-82-9               | EC0           | > 800 mg/l   | 3 h           |                            | OECD Guideline 209<br>(Activated Sludge,<br>Respiration Inhibition Test)          |
| 2-Hydroxyethyl methacrylate<br>868-77-9  | EC0           | > 3.000 mg/l | 16 h          | Pseudomonas fluorescens    | other guideline:                                                                  |
| p-benzoquinone                           | EC0           | < 1 mg/l     | 30 min        |                            | not specified                                                                     |

|          |  |  |  |  |  |
|----------|--|--|--|--|--|
| 106-51-4 |  |  |  |  |  |
|----------|--|--|--|--|--|

## 12.2. Persistence and degradability

The table below presents the data of the classified substances present in the mixture.

| Hazardous substances<br>CAS-No.                      | Result                     | Test type | Degradability | Exposure<br>time | Method                                                                                       |
|------------------------------------------------------|----------------------------|-----------|---------------|------------------|----------------------------------------------------------------------------------------------|
| Hydroxypropyl methacrylate<br>27813-02-1             | readily biodegradable      | aerobic   | 94,2 %        | 28 d             | OECD Guideline 301 E (Ready biodegradability: Modified OECD Screening Test)                  |
| Acrylic acid<br>79-10-7                              | inherently biodegradable   | aerobic   | 100 %         | 28 d             | OECD Guideline 302 B (Inherent biodegradability: Zahn-Wellens/EMPA Test)                     |
| Acrylic acid<br>79-10-7                              | readily biodegradable      | aerobic   | 81 %          | 28 d             | OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test)                            |
| 2,2'-Ethylenedioxydiethyl dimethacrylate<br>109-16-0 | readily biodegradable      | aerobic   | 85 %          | 28 d             | OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test)                            |
| Cumene hydroperoxide<br>80-15-9                      | not readily biodegradable. | aerobic   | 3 %           | 28 d             | OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test)                            |
| methacrylic acid<br>79-41-4                          | readily biodegradable      | aerobic   | 86 %          | 28 d             | OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test)                            |
| methacrylic acid<br>79-41-4                          | inherently biodegradable   | aerobic   | 100 %         | 14 d             | OECD Guideline 302 B (Inherent biodegradability: Zahn-Wellens/EMPA Test)                     |
| Tributyl amine<br>102-82-9                           |                            | aerobic   | < 10 %        | 15 d             | OECD Guideline 301 C (Ready Biodegradability: Modified MITI Test (I))                        |
| Tributyl amine<br>102-82-9                           | inherently biodegradable   | aerobic   | 94 %          | 15 d             | OECD Guideline 302 B (Inherent biodegradability: Zahn-Wellens/EMPA Test)                     |
| Tributyl amine<br>102-82-9                           | readily biodegradable      | aerobic   | 80,3 %        | 29 d             | OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution 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))                        |
| p-benzoquinone<br>106-51-4                           | not readily biodegradable. | aerobic   | 23 - 61 %     | 19 d             | EU Method C.4-B (Determination of the "Ready" Biodegradability Modified OECD Screening Test) |

## 12.3. Bioaccumulative potential

The table below presents the data of the classified substances present in the mixture.

| Hazardous substances<br>CAS-No. | Bioconcentration factor (BCF) | Exposure time | Temperature | Species     | Method                                                        |
|---------------------------------|-------------------------------|---------------|-------------|-------------|---------------------------------------------------------------|
| Acrylic acid<br>79-10-7         | 3,16                          |               |             |             | QSAR (Quantitative Structure Activity Relationship)           |
| Cumene hydroperoxide<br>80-15-9 | 9,1                           |               |             | calculation | OECD Guideline 305 (Bioconcentration: Flow-through Fish Test) |

**12.4. Mobility in soil**

The table below presents the data of the classified substances present in the mixture.

| Hazardous substances<br>CAS-No.                      | LogPow    | Temperature | Method                                                                               |
|------------------------------------------------------|-----------|-------------|--------------------------------------------------------------------------------------|
| Hydroxypropyl methacrylate<br>27813-02-1             | 0,97      | 20 °C       | not specified                                                                        |
| Acrylic acid<br>79-10-7                              | 0,46      | 25 °C       | OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method)   |
| 2,2'-Ethylenedioxydiethyl dimethacrylate<br>109-16-0 | 2,3       |             | OECD Guideline 117 (Partition Coefficient (n-octanol / water), HPLC Method)          |
| Cumene hydroperoxide<br>80-15-9                      | 1,6       | 25 °C       | OECD Guideline 117 (Partition Coefficient (n-octanol / water), HPLC Method)          |
| methacrylic acid<br>79-41-4                          | 0,93      | 22 °C       | OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method)   |
| Tributyl amine<br>102-82-9                           | 3,338     | 25 °C       | OECD Guideline 123 (Partition Coefficient (1-Octanol / Water), Slow-Stirring Method) |
| 2-Hydroxyethyl methacrylate<br>868-77-9              | 0,42      | 25 °C       | OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method)   |
| p-benzoquinone<br>106-51-4                           | 0,1 - 0,3 | 23 °C       | OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method)   |

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

The table below presents the data of the classified substances present in the mixture.

| 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. |
| Acrylic acid<br>79-10-7                              | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria. |
| 2,2'-Ethylenedioxydiethyl 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. |
| Tributyl amine<br>102-82-9                           | 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. |
| p-benzoquinone<br>106-51-4                           | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria. |

**12.6. Endocrine disrupting properties**

not applicable

**12.7. Other adverse effects**

No data available.

## SECTION 13: Disposal considerations

**13.1. Waste treatment methods**

**Product disposal:**

Dispose of in accordance with local and national regulations.  
Do not empty into drains / surface water / ground water.

**Disposal of uncleaned packages:**

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

**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. We will be happy to advise you.

**SECTION 14: Transport information**
**14.1. UN number or ID number**

|      |                     |
|------|---------------------|
| ADR  | Not dangerous goods |
| RID  | Not dangerous goods |
| ADN  | Not dangerous goods |
| IMDG | Not dangerous goods |
| IATA | Not dangerous goods |

**14.2. UN proper shipping name**

|      |                     |
|------|---------------------|
| ADR  | Not dangerous goods |
| RID  | Not dangerous goods |
| ADN  | Not dangerous goods |
| IMDG | Not dangerous goods |
| IATA | Not dangerous goods |

**14.3. Transport hazard class(es)**

|      |                     |
|------|---------------------|
| ADR  | Not dangerous goods |
| RID  | Not dangerous goods |
| ADN  | Not dangerous goods |
| IMDG | Not dangerous goods |
| IATA | Not dangerous goods |

**14.4. Packing group**

|      |                     |
|------|---------------------|
| ADR  | Not dangerous goods |
| RID  | Not dangerous goods |
| ADN  | Not dangerous goods |
| IMDG | Not dangerous goods |
| IATA | Not dangerous goods |

**14.5. Environmental hazards**

|      |                |
|------|----------------|
| ADR  | not applicable |
| RID  | not applicable |
| ADN  | not applicable |
| IMDG | not applicable |
| IATA | not applicable |

**14.6. Special precautions for user**

|     |                |
|-----|----------------|
| ADR | not applicable |
|-----|----------------|

|      |                |
|------|----------------|
| RID  | not applicable |
| ADN  | not applicable |
| IMDG | not applicable |
| IATA | not applicable |

**14.7. Maritime transport in bulk according to IMO instruments**

not applicable

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

|                                                                |                |
|----------------------------------------------------------------|----------------|
| Ozone Depleting Substance (ODS) (Regulation (EC) No 2024/590): | Not applicable |
| Prior Informed Consent (PIC) (Regulation (EU) No 649/2012):    | Not applicable |
| Persistent organic pollutants (Regulation (EU) 2019/1021):     | Not applicable |
| VOC content<br>(2010/75/EC)                                    | 5,1 %          |

**15.2. Chemical safety assessment**

A chemical safety assessment has not been carried out.

**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:

H226 Flammable liquid and vapour.  
H228 Flammable solid.  
H242 Heating may cause a fire.  
H301 Toxic if swallowed.  
H302 Harmful if swallowed.  
H310 Fatal in contact with skin.  
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.  
H373 May cause damage to organs through prolonged or repeated exposure.  
H400 Very toxic to aquatic life.  
H411 Toxic to aquatic life with long lasting effects.

|             |                                                                                                                   |
|-------------|-------------------------------------------------------------------------------------------------------------------|
| ED:         | Substance identified as having endocrine disrupting properties                                                    |
| EU OEL:     | Substance with a Union workplace exposure limit                                                                   |
| EU EXPLD 1: | Substance listed in Annex I, Reg (EC) No. 2019/1148                                                               |
| EU EXPLD 2  | Substance listed in Annex II, Reg (EC) No. 2019/1148                                                              |
| SVHC:       | Substance of very high concern (REACH Candidate List)                                                             |
| PBT:        | Substance fulfilling persistent, bioaccumulative and toxic criteria                                               |
| PBT/vPvB:   | Substance fulfilling persistent, bioaccumulative and toxic plus very persistent and very bioaccumulative criteria |
| vPvB:       | Substance fulfilling very persistent and very bioaccumulative criteria                                            |

**Further information:**

This Safety Data Sheet has been produced for sales from Henkel to parties purchasing from Henkel, is based on Regulation (EC) No 1907/2006 and provides information in accordance with applicable regulations of the European Union only. In that respect, no statement, warranty or representation of any kind is given as to compliance with any statutory laws or regulations of any other jurisdiction or territory other than the European Union. When exporting to territories other than the European Union, please consult with the respective Safety Data Sheet of the concerned territory to ensure compliance or liaise with Henkel's Product Safety and Regulatory Affairs Department (SDSinfo.Adhesive@henkel.com) prior to export to other territories than the European Union.

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.

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**Relevant changes in this safety data sheet are indicated by vertical lines at the left margin in the body of this document. Corresponding text is displayed in a different color on shadowed fields.**



## Safety Data Sheet according to (EC) No 1907/2006 as amended

SDS No. : 795956

V004.0

LOCTITE SF 734 known as Loctite 734

Revision: 27.09.2024

printing date: 09.05.2025

Replaces version from: 27.09.2024

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

#### 1.1. Product identifier

LOCTITE SF 734 known as Loctite 734

UFI: D29D-7WM9-D20M-NWD5

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

Intended use:

Primer

#### 1.3. Details of the supplier of the safety data sheet

Henkel Ltd

Adhesives

Wood Lane End

HP2 4RQ Hemel Hempstead

Great Britain

Phone: +44 (1442) 278000

For Safety Data Sheet updates please visit our website [www.mysds.henkel.com](http://www.mysds.henkel.com) or [www.henkel-adhesives.com](http://www.henkel-adhesives.com).

[SDSinfo.Adhesive@henkel.com](mailto:SDSinfo.Adhesive@henkel.com)

#### 1.4. Emergency telephone number

24 Hours Emergency Tel: +44 (0)1442 278497

### SECTION 2: Hazards identification

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

##### Classification (CLP):

Flammable aerosols

Category 1

H222 Extremely flammable aerosol.

H229 Pressurized container: May burst if heated.

Serious eye irritation

Category 2

H319 Causes serious eye irritation.

Specific target organ toxicity - single exposure

Category 3

H336 May cause drowsiness or dizziness.

Target organ: Central nervous system

Acute hazards to the aquatic environment

Category 1

H400 Very toxic to aquatic life.

Chronic hazards to the aquatic environment

Category 1

H410 Very toxic to aquatic life with long lasting effects.

#### 2.2. Label elements

##### Label elements (CLP):

Hazard pictogram:



Contains

acetone

Signal word:

Danger

Hazard statement:

H319 Causes serious eye irritation.  
 H336 May cause drowsiness or dizziness.  
 H410 Very toxic to aquatic life with long lasting effects.  
 H222 Extremely flammable aerosol.  
 H229 Pressurized container: May burst if heated.

Supplemental information

EUH066 Repeated exposure may cause skin dryness or cracking.

Precautionary statement:

P102 Keep out of reach of children.

Precautionary statement:  
Prevention

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.  
 No smoking.  
 P211 Do not spray on an open flame or other ignition source.  
 P251 Do not pierce or burn, even after use.  
 P273 Avoid release to the environment.  
 P261 Avoid breathing vapors.

Precautionary statement:  
Response

P337+P313 If eye irritation persists: Get medical advice/attention.

Precautionary statement:  
Storage

P403+P235 Store in a well-ventilated place. Keep cool.  
 P410+P412 Protect from sunlight. Do not expose to temperatures exceeding  
 50.DEGREE.C/122.DEGREE.F.

### 2.3. Other hazards

None if used properly.

Following substances are present in a concentration  $\geq$  the concentration limit for depiction in Section 3 and fulfill the criteria for PBT/vPvB, or were identified as endocrine disruptor (ED):

This mixture does not contain any substances in a concentration  $\geq$  the concentration limit for depiction in Section 3 that are assessed to be a PBT, vPvB or ED.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

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

| Hazardous components<br>CAS-No.<br>EC Number<br>REACH-Reg No.                        | Concentration | Classification                                                                                                                    | Specific Conc. Limits, M-factors and ATEs                       | Add. Information   |
|--------------------------------------------------------------------------------------|---------------|-----------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|--------------------|
| acetone<br>67-64-1<br>200-662-2<br>01-2119471330-49                                  | 50- < 100 %   | Flam. Liq. 2, H225<br>Eye Irrit. 2, H319<br>STOT SE 3, H336                                                                       |                                                                 | EU OEL<br>EUEXPL2D |
| Propane<br>74-98-6<br>200-827-9<br>01-2119486944-21                                  | 10- < 20 %    | Flam. Gas 1A, H220<br>Press. Gas H280                                                                                             |                                                                 |                    |
| Diethyl-phenyl-propyl-dihydropyridine<br>34562-31-7<br>252-091-3<br>01-2120769712-47 | 5- < 10 %     | Aquatic Acute 1, H400<br>Acute Tox. 4, Oral, H302<br>Skin Irrit. 2, Dermal, H315<br>Eye Irrit. 2, H319<br>Aquatic Chronic 1, H410 | M acute = 10<br>M chronic = 10<br>=====<br>oral:ATE = 501 mg/kg |                    |

If no ATE values are displayed, please refer to LD/LC50 values in Section 11.

For full text of the H - statements and other abbreviations see section 16 "Other information".

## 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.

Vapors may cause drowsiness and dizziness.

Prolonged or repeated contact may cause skin irritation.

### 4.3. Indication of any immediate medical attention and special treatment needed

See section: Description of first aid measures

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

**Suitable extinguishing media:**

water, carbon dioxide, foam, powder

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

High pressure waterjet

### 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 oxides (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.

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

Avoid contact with skin and eyes.

Wear protective equipment.

Ensure adequate ventilation.

Keep away from sources of ignition.

**6.2. Environmental precautions**

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

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

Dispose of contaminated material as waste according to Section 13.

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.

**6.4. Reference to other sections**

See advice in section 8

**SECTION 7: Handling and storage****7.1. Precautions for safe handling**

Avoid skin and eye contact.

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**

Ensure good ventilation/extraction.

Keep container tightly sealed.

Refer to Technical Data Sheet.

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

Primer

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Occupational Exposure Limits

Valid for  
Great Britain

| Ingredient [Regulated substance] | ppm   | mg/m <sup>3</sup> | Value type                        | Short term exposure limit category / Remarks | Regulatory list |
|----------------------------------|-------|-------------------|-----------------------------------|----------------------------------------------|-----------------|
| Acetone<br>67-64-1<br>[ACETONE]  | 500   | 1.210             | Time Weighted Average (TWA):      |                                              | EH40 WEL        |
| Acetone<br>67-64-1<br>[ACETONE]  | 500   | 1.210             | Time Weighted Average (TWA):      | Indicative                                   | ECTLV           |
| Acetone<br>67-64-1<br>[ACETONE]  | 1.500 | 3.620             | Short Term Exposure Limit (STEL): | 15 minutes                                   | EH40 WEL        |

#### Occupational Exposure Limits

Valid for  
Ireland

| Ingredient [Regulated substance] | ppm | mg/m <sup>3</sup> | Value type                   | Short term exposure limit category / Remarks | Regulatory list |
|----------------------------------|-----|-------------------|------------------------------|----------------------------------------------|-----------------|
| Acetone<br>67-64-1<br>[ACETONE]  | 500 | 1.210             | Time Weighted Average (TWA): | Indicative OELV                              | IR_OEL          |
| Acetone<br>67-64-1<br>[ACETONE]  | 500 | 1.210             | Time Weighted Average (TWA): | Indicative                                   | ECTLV           |

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

| Name on list       | Environmental Compartment       | Exposure period | Value     |     |            |        | Remarks |
|--------------------|---------------------------------|-----------------|-----------|-----|------------|--------|---------|
|                    |                                 |                 | mg/l      | ppm | mg/kg      | others |         |
| acetone<br>67-64-1 | aqua<br>(intermittent releases) |                 | 21 mg/l   |     |            |        |         |
| acetone<br>67-64-1 | sewage treatment plant (STP)    |                 | 100 mg/l  |     |            |        |         |
| acetone<br>67-64-1 | sediment (freshwater)           |                 |           |     | 30,4 mg/kg |        |         |
| acetone<br>67-64-1 | sediment (marine water)         |                 |           |     | 3,04 mg/kg |        |         |
| acetone<br>67-64-1 | Soil                            |                 |           |     | 29,5 mg/kg |        |         |
| acetone<br>67-64-1 | aqua (freshwater)               |                 | 10,6 mg/l |     |            |        |         |
| acetone<br>67-64-1 | aqua (marine water)             |                 | 1,06 mg/l |     |            |        |         |

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

| Name on list       | Application Area   | Route of Exposure | Health Effect                             | Exposure Time | Value                  | Remarks |
|--------------------|--------------------|-------------------|-------------------------------------------|---------------|------------------------|---------|
| acetone<br>67-64-1 | Workers            | Inhalation        | Acute/short term exposure - local effects |               | 2420 mg/m <sup>3</sup> |         |
| acetone<br>67-64-1 | Workers            | dermal            | Long term exposure - systemic effects     |               | 186 mg/kg              |         |
| acetone<br>67-64-1 | Workers            | Inhalation        | Long term exposure - systemic effects     |               | 1210 mg/m <sup>3</sup> |         |
| acetone<br>67-64-1 | General population | dermal            | Long term exposure - systemic effects     |               | 62 mg/kg               |         |
| acetone<br>67-64-1 | General population | Inhalation        | Long term exposure - systemic effects     |               | 200 mg/m <sup>3</sup>  |         |
| acetone<br>67-64-1 | General population | oral              | Long term exposure - systemic effects     |               | 62 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 fitted 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 &gt; 30 minutes permeation time as per EN 374):

nitrile rubber (NBR; ≥ 0.4 mm thickness)

Suitable materials for longer, direct contact (recommended: protection index 6, corresponding to &gt; 480 minutes permeation time as per EN 374):

nitrile rubber (NBR; ≥ 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 should be worn if there is a risk of splashing.

Protective eye equipment should conform to EN166.

**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

|                                        |                                     |
|----------------------------------------|-------------------------------------|
| Delivery form                          | aerosol                             |
| Colour                                 | Amber                               |
| Odor                                   | Of aromatic solvent, characteristic |
| Physical state                         | liquid                              |
| Melting point                          | Not applicable, Product is a liquid |
| Solidification temperature             | < 0 °C (< 32 °F)                    |
| Initial boiling point                  | 56 °C (132.8 °F)None                |
| Flammability                           | Flammable liquid                    |
| Explosive limits                       |                                     |
| lower                                  | 2,5 %(V);                           |
| upper                                  | 12,5 %(V);                          |
| Flash point                            | Not applicable to aerosols.         |
| Auto-ignition temperature              | 400 °C (752 °F)                     |
| Decomposition temperature              | > 400 °C (> 752 °F);                |
| pH                                     | 5 - 6 None                          |
| (23 °C (73 °F); Conc.: 100 % product)  |                                     |
| Viscosity (kinematic)                  | 20,5 mm <sup>2</sup> /s             |
| (40 °C (104 °F); )                     |                                     |
| Viscosity, dynamic                     | Not determined                      |
| ()                                     |                                     |
| Solubility (qualitative)               | Soluble                             |
| (23 °C (73.4 °F); Solvent: Water)      |                                     |
| Solubility (qualitative)               | Miscible                            |
| (20 °C (68 °F); Solvent: Acetone)      |                                     |
| Partition coefficient: n-octanol/water | Not applicable                      |
|                                        | Mixture                             |
| Vapour pressure                        | 8300 mbar;None                      |
| (20 °C (68 °F))                        |                                     |
| Vapour pressure                        | 810 mbar                            |
| (50 °C (122 °F))                       |                                     |
| Density                                | 0,8 g/cm <sup>3</sup> None          |
| (23 °C (73.4 °F))                      |                                     |
| Relative vapour density:               | > 1                                 |
| (23 °C)                                |                                     |
| Particle characteristics               | Not applicable                      |
|                                        | Product is a liquid                 |

### 9.2. Other information

Other information not applicable for this product

## SECTION 10: Stability and reactivity

### 10.2. Chemical stability

Stable under recommended storage conditions.

### 10.3. Possibility of hazardous reactions

See section reactivity

### 10.4. Conditions to avoid

Stable under normal conditions of storage and use.

### 10.5. Incompatible materials

See section reactivity.

## SECTION 11: Toxicological information

### General toxicological information:

Fumes emitted during soldering may irritate the skin.

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

#### 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           |
|---------------------------------------------------------|----------------------------------------|-------------|---------|------------------|
| acetone<br>67-64-1                                      | LD50                                   | 5.800 mg/kg | rat     | not specified    |
| Diethyl-phenyl-propyl-<br>dihydropyridine<br>34562-31-7 | LD50                                   | > 500 mg/kg | rat     | other guideline: |
| Diethyl-phenyl-propyl-<br>dihydropyridine<br>34562-31-7 | Acute<br>toxicity<br>estimate<br>(ATE) | 501 mg/kg   |         | Expert judgement |

#### 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           |
|---------------------------------------------------------|---------------|----------------|---------|------------------|
| acetone<br>67-64-1                                      | LD50          | > 15.688 mg/kg | rabbit  | Draize Test      |
| Diethyl-phenyl-propyl-<br>dihydropyridine<br>34562-31-7 | LD50          | > 1.000 mg/kg  | rabbit  | other guideline: |

#### 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 atmosphere | Exposure<br>time | Species | Method        |
|---------------------------------|---------------|--------------|-----------------|------------------|---------|---------------|
| acetone<br>67-64-1              | LC50          | 76 mg/l      | vapour          | 4 h              | rat     | not specified |
| Propane<br>74-98-6              | LC50          | > 800000 ppm | gas             | 15 min           | rat     | not specified |

#### 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                                                                           |
|---------------------------------------------------------|----------------|------------------|----------------------------------------------------------------------------|----------------------------------------------------------------------------------|
| acetone<br>67-64-1                                      | not irritating |                  | guinea pig                                                                 | not specified                                                                    |
| Diethyl-phenyl-propyl-<br>dihydropyridine<br>34562-31-7 | irritating     | 4 h              | rabbit                                                                     | EPA OTS 798.4470 (Acute Dermal Irritation)                                       |
| Diethyl-phenyl-propyl-<br>dihydropyridine<br>34562-31-7 | not corrosive  |                  | Corrositex<br>Biobarrier<br>Membrane<br>(reconstituted<br>collagen matrix) | OECD Guideline 435 (In Vitro Membrane Barrier Test<br>Method for Skin Corrosion) |

**Serious eye damage/irritation:**

Fumes emitted during soldering may irritate the eyes.

| Hazardous substances<br>CAS-No.                         | Result                                           | Exposure<br>time | Species | Method                                                |
|---------------------------------------------------------|--------------------------------------------------|------------------|---------|-------------------------------------------------------|
| acetone<br>67-64-1                                      | irritating                                       |                  | rabbit  | OECD Guideline 405 (Acute Eye Irritation / Corrosion) |
| Diethyl-phenyl-propyl-<br>dihydropyridine<br>34562-31-7 | Category 2B<br>(mildly<br>irritating to<br>eyes) |                  | rabbit  | EPA OTS 798.4500 (Acute Eye Irritation)               |

**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        |
|---------------------------------|-----------------|---------------------------------|------------|---------------|
| acetone<br>67-64-1              | not sensitising | Guinea pig maximisation<br>test | guinea pig | not specified |

**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                                                                   |
|---------------------------------|----------|--------------------------------------------------------|--------------------------------------------|---------|--------------------------------------------------------------------------|
| acetone<br>67-64-1              | negative | bacterial reverse<br>mutation assay (e.g<br>Ames test) | with and without                           |         | OECD Guideline 471<br>(Bacterial Reverse Mutation<br>Assay)              |
| acetone<br>67-64-1              | negative | in vitro mammalian<br>chromosome<br>aberration test    | with and without                           |         | OECD Guideline 473 (In vitro<br>Mammalian Chromosome<br>Aberration Test) |
| acetone<br>67-64-1              | negative | mammalian cell<br>gene mutation assay                  | without                                    |         | OECD Guideline 476 (In vitro<br>Mammalian Cell Gene<br>Mutation Test)    |
| Propane<br>74-98-6              | negative | bacterial reverse<br>mutation assay (e.g<br>Ames test) | with and without                           |         | OECD Guideline 471<br>(Bacterial Reverse Mutation<br>Assay)              |
| Propane<br>74-98-6              | negative | in vitro mammalian<br>chromosome<br>aberration test    | with and without                           |         | OECD Guideline 473 (In vitro<br>Mammalian Chromosome<br>Aberration Test) |

**Carcinogenicity**

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

| Hazardous components<br>CAS-No. | Result           | Route of<br>application | Exposure<br>time /<br>Frequency<br>of treatment | Species | Sex    | Method        |
|---------------------------------|------------------|-------------------------|-------------------------------------------------|---------|--------|---------------|
| acetone<br>67-64-1              | not carcinogenic | dermal                  | 424 d<br>3 times per<br>week                    | mouse   | female | not specified |

**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 / Value                              | Test type | Route of<br>application | Species | Method                                                                                                                                  |
|---------------------------------|---------------------------------------------|-----------|-------------------------|---------|-----------------------------------------------------------------------------------------------------------------------------------------|
| Propane<br>74-98-6              | NOAEL P 21,6 mg/l<br><br>NOAEL F1 21,6 mg/l | screening | inhalation:<br>gas      | rat     | OECD Guideline 422<br>(Combined Repeated Dose<br>Toxicity Study with the<br>Reproduction /<br>Developmental Toxicity<br>Screening Test) |

**STOT-single exposure:**

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

| Hazardous substances<br>CAS-No. | Assessment                            | Route of<br>exposure | Target Organs | Remarks |
|---------------------------------|---------------------------------------|----------------------|---------------|---------|
| acetone<br>67-64-1              | May cause drowsiness or<br>dizziness. |                      |               |         |

**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                                                                                                                                  |
|---------------------------------|-----------------|----------------------------|----------------------------------------------|---------|-----------------------------------------------------------------------------------------------------------------------------------------|
| acetone<br>67-64-1              | NOAEL 900 mg/kg | oral:<br>drinking<br>water | 13 w<br>daily                                | rat     | OECD Guideline 408<br>(Repeated Dose 90-Day<br>Oral Toxicity in Rodents)                                                                |
| Propane<br>74-98-6              |                 | inhalation:<br>gas         | 28 d<br>6 h/d, 7 d/w                         | rat     | OECD Guideline 422<br>(Combined Repeated<br>Dose Toxicity Study with<br>the Reproduction /<br>Developmental Toxicity<br>Screening Test) |

**Aspiration hazard:**

No data available.

**11.2 Information on other hazards**

not applicable

## 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.

The table below presents the data of the classified substances present in the mixture.

| Hazardous substances<br>CAS-No. | Value<br>type | Value      | Exposure time | Species             | Method                                            |
|---------------------------------|---------------|------------|---------------|---------------------|---------------------------------------------------|
| acetone<br>67-64-1              | LC50          | 8.120 mg/l | 96 h          | Pimephales promelas | OECD Guideline 203 (Fish,<br>Acute Toxicity Test) |

#### Toxicity (aquatic invertebrates):

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

The table below presents the data of the classified substances present in the mixture.

| Hazardous substances<br>CAS-No.                         | Value<br>type | Value      | Exposure time | Species       | Method                                                           |
|---------------------------------------------------------|---------------|------------|---------------|---------------|------------------------------------------------------------------|
| acetone<br>67-64-1                                      | EC50          | 8.800 mg/l | 48 h          | Daphnia pulex | OECD Guideline 202<br>(Daphnia sp. Acute<br>Immobilisation Test) |
| Diethyl-phenyl-propyl-<br>dihydropyridine<br>34562-31-7 | EC50          | 0,023 mg/l | 48 h          | Daphnia magna | OECD Guideline 202<br>(Daphnia sp. Acute<br>Immobilisation Test) |

#### Chronic toxicity (aquatic invertebrates):

The table below presents the data of the classified substances present in the mixture.

| Hazardous substances<br>CAS-No. | Value<br>type | Value      | Exposure time | Species       | Method                                         |
|---------------------------------|---------------|------------|---------------|---------------|------------------------------------------------|
| acetone<br>67-64-1              | NOEC          | 2.212 mg/l | 28 d          | Daphnia magna | OECD 211 (Daphnia<br>magna, Reproduction Test) |

#### Toxicity (Algae):

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

The table below presents the data of the classified substances present in the mixture.

| Hazardous substances<br>CAS-No.                         | Value<br>type | Value       | Exposure time | Species                         | Method                                               |
|---------------------------------------------------------|---------------|-------------|---------------|---------------------------------|------------------------------------------------------|
| acetone<br>67-64-1                                      | NOEC          | 530 mg/l    | 8 d           | Microcystis aeruginosa          | DIN 38412-09                                         |
| Diethyl-phenyl-propyl-<br>dihydropyridine<br>34562-31-7 | EC50          | 0,0431 mg/l | 72 h          | Pseudokirchneriella subcapitata | OECD Guideline 201 (Alga,<br>Growth Inhibition Test) |
| Diethyl-phenyl-propyl-<br>dihydropyridine<br>34562-31-7 | NOEC          | 0,017 mg/l  | 72 h          | Pseudokirchneriella subcapitata | OECD Guideline 201 (Alga,<br>Growth Inhibition Test) |

#### Toxicity (microorganisms):

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

The table below presents the data of the classified substances present in the mixture.

| Hazardous substances<br>CAS-No. | Value<br>type | Value      | Exposure time | Species            | Method                                                       |
|---------------------------------|---------------|------------|---------------|--------------------|--------------------------------------------------------------|
| acetone<br>67-64-1              | EC10          | 1.000 mg/l | 30 min        | Pseudomonas putida | DIN 38412, part 27<br>(Bacterial oxygen<br>consumption test) |

#### 12.2. Persistence and degradability

The table below presents the data of the classified substances present in the mixture.

| Hazardous substances<br>CAS-No.                         | Result                     | Test type | Degradability | Exposure<br>time | Method                                                                                      |
|---------------------------------------------------------|----------------------------|-----------|---------------|------------------|---------------------------------------------------------------------------------------------|
| acetone<br>67-64-1                                      | readily biodegradable      | aerobic   | 81 - 92 %     | 30 d             | EU Method C.4-E (Determination<br>of the "Ready"<br>Biodegradability Closed Bottle<br>Test) |
| Propane<br>74-98-6                                      | readily biodegradable      | aerobic   | > 60 %        | 28 d             | OECD 301 A - F                                                                              |
| Diethyl-phenyl-propyl-<br>dihydropyridine<br>34562-31-7 | not readily biodegradable. | aerobic   | > 0 - < 60 %  | 28 d             | OECD 301 A - F                                                                              |

#### 12.3. Bioaccumulative potential

No data available.

**12.4. Mobility in soil**

The table below presents the data of the classified substances present in the mixture.

| Hazardous substances<br>CAS-No.                     | LogPow | Temperature | Method                                                                             |
|-----------------------------------------------------|--------|-------------|------------------------------------------------------------------------------------|
| acetone<br>67-64-1                                  | -0,24  |             | OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method) |
| Diethyl-phenyl-propyl-dihydropyridine<br>34562-31-7 | 6,578  |             | QSAR (Quantitative Structure Activity Relationship)                                |

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

The table below presents the data of the classified substances present in the mixture.

| Hazardous substances<br>CAS-No. | PBT / vPvB                                                                                                            |
|---------------------------------|-----------------------------------------------------------------------------------------------------------------------|
| acetone<br>67-64-1              | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria. |
| Propane<br>74-98-6              | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria. |

**12.6. Endocrine disrupting properties**

not applicable

**12.7. Other adverse effects**

No data available.

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

Product disposal:

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

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 authorised legal land fill site or incinerated.

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. We will be happy to advise you.

**SECTION 14: Transport information****14.1. UN number or ID number**

|      |      |
|------|------|
| ADR  | 1950 |
| RID  | 1950 |
| ADN  | 1950 |
| IMDG | 1950 |
| IATA | 1950 |

**14.2. UN proper shipping name**

|      |                                                              |
|------|--------------------------------------------------------------|
| ADR  | AEROSOLS                                                     |
| RID  | AEROSOLS                                                     |
| ADN  | AEROSOLS                                                     |
| IMDG | AEROSOLS (3,5-Diethyl-1,2-dihydro-1-phenyl-2-propylpyridine) |
| IATA | Aerosols, flammable                                          |

**14.3. Transport hazard class(es)**

|      |     |
|------|-----|
| ADR  | 2.1 |
| RID  | 2.1 |
| ADN  | 2.1 |
| IMDG | 2.1 |
| IATA | 2.1 |

**14.4. Packing group**

ADR  
RID  
ADN  
IMDG  
IATA

**14.5. Environmental hazards**

|      |                           |
|------|---------------------------|
| ADR  | Environmentally Hazardous |
| RID  | Environmentally Hazardous |
| ADN  | Environmentally Hazardous |
| IMDG | Marine Pollutant          |
| IATA | not applicable            |

**14.6. Special precautions for user**

|      |                                   |
|------|-----------------------------------|
| ADR  | not applicable<br>Tunnelcode: (D) |
| RID  | not applicable                    |
| ADN  | not applicable                    |
| IMDG | not applicable                    |
| IATA | not applicable                    |

**14.7. Maritime transport in bulk according to IMO instruments**

not applicable

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

|                                                                |                |
|----------------------------------------------------------------|----------------|
| Ozone Depleting Substance (ODS) (Regulation (EC) No 2024/590): | Not applicable |
| Prior Informed Consent (PIC) (Regulation (EU) No 649/2012):    | Not applicable |
| Persistent organic pollutants (Regulation (EU) 2019/1021):     | Not applicable |

VOC content 93,2 %  
(2010/75/EC)

This product is regulated by Regulation (EU) 2019/1148: all suspicious transactions, and significant disappearances and thefts should be reported to the relevant national contact point. Please see [https://ec.europa.eu/home-affairs/what-we-do/policies/counter-terrorism/protection/implementation-explosives-precursors-legislation\\_en](https://ec.europa.eu/home-affairs/what-we-do/policies/counter-terrorism/protection/implementation-explosives-precursors-legislation_en).

#### 15.2. Chemical safety assessment

A chemical safety assessment has not been carried out.

### 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:

H220 Extremely flammable gas.  
H225 Highly flammable liquid and vapour.  
H280 Contains gas under pressure; may explode if heated.  
H302 Harmful if swallowed.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H336 May cause drowsiness or dizziness.  
H400 Very toxic to aquatic life.  
H410 Very toxic to aquatic life with long lasting effects.

|             |                                                                                                                   |
|-------------|-------------------------------------------------------------------------------------------------------------------|
| ED:         | Substance identified as having endocrine disrupting properties                                                    |
| EU OEL:     | Substance with a Union workplace exposure limit                                                                   |
| EU EXPLD 1: | Substance listed in Annex I, Reg (EC) No. 2019/1148                                                               |
| EU EXPLD 2  | Substance listed in Annex II, Reg (EC) No. 2019/1148                                                              |
| SVHC:       | Substance of very high concern (REACH Candidate List)                                                             |
| PBT:        | Substance fulfilling persistent, bioaccumulative and toxic criteria                                               |
| PBT/vPvB:   | Substance fulfilling persistent, bioaccumulative and toxic plus very persistent and very bioaccumulative criteria |
| vPvB:       | Substance fulfilling very persistent and very bioaccumulative criteria                                            |

#### Further information:

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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.

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**Relevant changes in this safety data sheet are indicated by vertical lines at the left margin in the body of this document. Corresponding text is displayed in a different color on shadowed fields.**