



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

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LOCTITE 511

SDS No. : 173048

V006.1

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Replaces version from: 22.08.2023

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

#### 1.1. Product identifier

LOCTITE 511

#### 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 AG & Co. KGaA

Henkelstr. 67

40589 Düsseldorf

Germany

Phone: +49 211 797 0

SDSinfo.Adhesive@henkel.com

For Safety Data Sheet updates please visit our website <https://mysds.henkel.com/index.html#/appSelection> or [www.henkel-adhesives.com](http://www.henkel-adhesives.com).

#### 1.4. Emergency telephone number

The Henkel information service also provides an around-the-clock telephone service on phone no.+49-(0)211-797-3350 for exceptional cases.

### SECTION 2: Hazards identification

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

##### Classification (CLP):

|   |            |
|---|------------|
| Skin irritation   | Category 2 |
| H315 Causes skin irritation.                            |            |
| Serious eye irritation                                  | Category 2 |
| H319 Causes serious eye irritation.                     |            |
| 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**

2-Ethylhexyl methacrylate

Cumene hydroperoxide  
Acetic acid, 2-phenylhydrazide  
maleic acid

Reaction mass of N,N'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide),  
Octadecanamide, 12-hydroxy-N-[2-[(1-oxooctadecyl)amino]ethyl]

methyl methacrylate

**Signal word:**

Warning

**Hazard statement:**

H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H319 Causes serious eye irritation.  
H335 May cause respiratory irritation.  
H412 Harmful to aquatic life with long lasting effects.

**Precautionary statement:**

"\*\*\*" \*\*\*For consumer use only: P101 If medical advice is needed, have product  
container or label at hand. P102 Keep out of reach of children. P501 Dispose of  
contents/container in accordance with national regulation. \*\*\*

**Precautionary statement:  
Prevention**

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

**Precautionary statement:  
Response**

P302+P352 IF ON SKIN: Wash with plenty of soap and water.  
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.  
P337+P313 If eye irritation persists: Get medical advice/attention.

**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:**

| <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> |
|--|----------------------|---|--|-------------------------|
| 2-Ethylhexyl methacrylate<br>688-84-6<br>211-708-6<br>01-2119490166-35   | 5- < 10 %            | Skin Sens. 1B, H317<br>STOT SE 3, H335<br>Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>Aquatic Chronic 3, H412  | STOT SE 3; H335; C >= 10 %   |                         |
| Decan-1-ol<br>112-30-1<br>203-956-9<br>01-2119480407-35  | 5- < 10 %            | Eye Irrit. 2, H319<br>Aquatic Chronic 3, H412   | inhalation:ATE = 5,1<br>mg/l;dust/mist   |                         |
| Cumene hydroperoxide<br>80-15-9<br>201-254-7<br>01-2119475796-19   | 1- < 2,5 %           | 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 |                         |
| Acetic acid, 2-phenylhydrazide<br>114-83-0<br>204-055-3  | 0,1- < 1 %           | Acute Tox. 3, Oral, H301<br>Skin Irrit. 2, H315<br>Skin Sens. 1, H317<br>Eye Irrit. 2, H319<br>STOT SE 3, Inhalation, H335<br>Carc. 2, H351   |  |                         |
| maleic acid<br>110-16-7<br>203-742-5<br>01-2119488705-25   | 0,1- < 1 %           | Acute Tox. 4, Oral, H302<br>Eye Irrit. 2, H319<br>STOT SE 3, H335<br>Skin Irrit. 2, H315<br>Skin Sens. 1, H317<br>Acute Tox. 4, Dermal, H312  | Skin Sens. 1; H317; C >= 0,1 %   |                         |
| Reaction mass of N,N'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide), Octadecanamide, 12-hydroxy-N-[2-[(1-oxooctadecyl)amino]ethyl]-----<br>204-613-6<br>01-2119978265-26 | 0,1- < 1 %           | Aquatic Chronic 4, H413<br>Skin Sens. 1, H317   |  |                         |
| methyl methacrylate<br>80-62-6<br>201-297-1<br>01-2119452498-28  | 0,1- < 1 %           | Flam. Liq. 2, H225<br>STOT SE 3, H335<br>Skin Irrit. 2, H315<br>Skin Sens. 1, H317  |  | EU OEL                  |
| 1,4-Naphthalenedione<br>130-15-4<br>204-977-6  | 0,01- < 0,1 %        | Acute Tox. 3, Oral, H301<br>Skin Corr. 1C, H314<br>Skin Sens. 1, H317<br>Eye Dam. 1, H318<br>Acute Tox. 1, Inhalation, H330<br>STOT SE 3, H335<br>Aquatic Acute 1, H400<br>Aquatic Chronic 1, H410      | M acute = 10<br>M chronic = 1  |                         |

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: Redness, inflammation.

SKIN: Rash, Urticaria.

EYE: Irritation, conjunctivitis.

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

**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.  
Refer to Technical Data Sheet  
Do not store together with food or other consumables (coffee, tea, tobacco, etc.).

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

Adhesive

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Occupational Exposure Limits

Valid for  
Germany

| Ingredient [Regulated substance]                                      | ppm | mg/m <sup>3</sup> | Value type                          | Short term exposure limit category / Remarks   | Regulatory list |
|---|-----|-------------------|-------------------------------------|--|-----------------|
| Decan-1-ol<br>112-30-1  | 10  | 66                | Exposure limit(s):                  | 1<br>If the AGW and BGW values are complied with, there should be no risk of reproductive damage (see Number 2.7).                             | TRGS 900        |
| Decan-1-ol<br>112-30-1  |     |                   | Short Term Exposure Classification: | Category I: substances for which the localized effect has an assigned OEL or for substances with a sensitizing effect in respiratory passages. | TRGS 900        |
| Ethene, homopolymer<br>9002-88-4                                      |     |                   | Short Term Exposure Classification: | Category II: substances with a resorptive effect.  | TRGS 900        |
| Ethene, homopolymer<br>9002-88-4                                      |     | 10                | Exposure limit(s):                  | 2<br>If the AGW and BGW values are complied with, there should be no risk of reproductive damage (see Number 2.7).                             | TRGS 900        |
| Ethene, homopolymer<br>9002-88-4                                      |     | 1,25              | Exposure limit(s):                  | If the AGW and BGW values are complied with, there should be no risk of reproductive damage (see Number 2.7).                                  | TRGS 900        |
| Silane, dichlorodimethyl-, reaction products with silica<br>7631-86-9 |     | 4                 | Exposure limit(s):                  | If the AGW and BGW values are complied with, there should be no risk of reproductive damage (see Number 2.7).                                  | TRGS 900        |
| Silane, dichlorodimethyl-, reaction products with silica<br>7631-86-9 |     |                   | Short Term Exposure Classification: | Category II: substances with a resorptive effect.  | TRGS 900        |
| Silane, dichlorodimethyl-, reaction products with silica<br>7631-86-9 |     | 1,25              | Exposure limit(s):                  | If the AGW and BGW values are complied with, there should be no risk of reproductive damage (see Number 2.7).                                  | TRGS 900        |
| Silane, dichlorodimethyl-, reaction products with silica<br>7631-86-9 |     | 10                | Exposure limit(s):                  | 2<br>If the AGW and BGW values are complied with, there should be no risk of reproductive damage (see Number 2.7).                             | TRGS 900        |
| Silicon dioxide<br>112945-52-5  |     | 4                 | Exposure limit(s):                  | If the AGW and BGW values are complied with, there should be no risk of reproductive damage (see Number 2.7).                                  | TRGS 900        |
| Silicon dioxide<br>112945-52-5  |     |                   | Short Term Exposure Classification: | Category II: substances with a resorptive effect.  | TRGS 900        |
| Silicon dioxide<br>112945-52-5  |     | 10                | Exposure limit(s):                  | 2<br>If the AGW and BGW values are complied with, there should be no risk of reproductive damage (see Number 2.7).                             | TRGS 900        |
| Silicon dioxide<br>112945-52-5  |     | 1,25              | Exposure limit(s):                  | If the AGW and BGW values are complied with, there should be no risk of reproductive damage (see Number 2.7).                                  | TRGS 900        |
| Methyl methacrylate<br>80-62-6  | 50  | 210               | Exposure limit(s):                  | 2<br>If the AGW and BGW values   | TRGS 900        |

|   |     |  |                                     |  |          |
|---|-----|--|-------------------------------------|--|----------|
|   |     |  |                                     | are complied with, there should be no risk of reproductive damage (see Number 2.7).  |          |
| Methyl methacrylate<br>80-62-6                          |     |  | Short Term Exposure Classification: | Category I: substances for which the localized effect has an assigned OEL or for substances with a sensitizing effect in respiratory passages. | TRGS 900 |
| Methyl methacrylate<br>80-62-6<br>[METHYL METHACRYLATE] | 100 |  | Short Term Exposure Limit (STEL):   | Indicative   | ECLTV    |
| Methyl methacrylate<br>80-62-6<br>[METHYL METHACRYLATE] | 50  |  | Time Weighted Average (TWA):        | Indicative   | ECLTV    |

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

| Name on list   | Environmental<br>Compartment       | Exposure<br>period | Value           |     |                 |        | Remarks |
|--|------------------------------------|--------------------|-----------------|-----|-----------------|--------|---------|
|  |                                    |                    | mg/l            | ppm | mg/kg           | others |         |
| 2-Ethylhexyl methacrylate<br>688-84-6                      | aqua<br>(freshwater)               |                    | 0,003 mg/l      |     |                 |        |         |
| 2-Ethylhexyl methacrylate<br>688-84-6                      | aqua (marine<br>water)             |                    | 0 mg/l          |     |                 |        |         |
| 2-Ethylhexyl methacrylate<br>688-84-6                      | sediment<br>(freshwater)           |                    |                 |     | 2,24 mg/kg      |        |         |
| 2-Ethylhexyl methacrylate<br>688-84-6                      | sediment<br>(marine water)         |                    |                 |     | 0,224<br>mg/kg  |        |         |
| 2-Ethylhexyl methacrylate<br>688-84-6                      | sewage<br>treatment plant<br>(STP) |                    | 10 mg/l         |     |                 |        |         |
| 2-Ethylhexyl methacrylate<br>688-84-6                      | Soil                               |                    |                 |     | 0,446<br>mg/kg  |        |         |
| Decan-1-ol<br>112-30-1                                     | aqua<br>(freshwater)               |                    | 0,021 mg/l      |     |                 |        |         |
| Decan-1-ol<br>112-30-1                                     | aqua (marine<br>water)             |                    | 0,002 mg/l      |     |                 |        |         |
| Decan-1-ol<br>112-30-1                                     | Soil                               |                    |                 |     | 0,63 mg/kg      |        |         |
| .alpha.,.alpha.-Dimethylbenzyl<br>hydroperoxide<br>80-15-9 | aqua<br>(freshwater)               |                    | 0,0031<br>mg/l  |     |                 |        |         |
| .alpha.,.alpha.-Dimethylbenzyl<br>hydroperoxide<br>80-15-9 | aqua<br>(intermittent<br>releases) |                    | 0,031 mg/l      |     |                 |        |         |
| .alpha.,.alpha.-Dimethylbenzyl<br>hydroperoxide<br>80-15-9 | aqua (marine<br>water)             |                    | 0,00031<br>mg/l |     |                 |        |         |
| .alpha.,.alpha.-Dimethylbenzyl<br>hydroperoxide<br>80-15-9 | sewage<br>treatment plant<br>(STP) |                    | 0,35 mg/l       |     |                 |        |         |
| .alpha.,.alpha.-Dimethylbenzyl<br>hydroperoxide<br>80-15-9 | sediment<br>(freshwater)           |                    |                 |     | 0,023<br>mg/kg  |        |         |
| .alpha.,.alpha.-Dimethylbenzyl<br>hydroperoxide<br>80-15-9 | sediment<br>(marine water)         |                    |                 |     | 0,0023<br>mg/kg |        |         |
| .alpha.,.alpha.-Dimethylbenzyl<br>hydroperoxide<br>80-15-9 | Soil                               |                    |                 |     | 0,0029<br>mg/kg |        |         |
| Maleic acid<br>110-16-7                                    | aqua<br>(freshwater)               |                    | 0,1 mg/l        |     |                 |        |         |
| Maleic acid<br>110-16-7                                    | aqua<br>(intermittent<br>releases) |                    | 0,4281<br>mg/l  |     |                 |        |         |
| Maleic acid<br>110-16-7                                    | sediment<br>(freshwater)           |                    |                 |     | 0,334<br>mg/kg  |        |         |
| Maleic acid<br>110-16-7                                    | sewage<br>treatment plant<br>(STP) |                    | 44,6 mg/l       |     |                 |        |         |
| Maleic acid<br>110-16-7                                    | aqua (marine<br>water)             |                    | 0,01 mg/l       |     |                 |        |         |
| Maleic acid<br>110-16-7                                    | sediment<br>(marine water)         |                    |                 |     | 0,0334<br>mg/kg |        |         |
| Maleic acid<br>110-16-7                                    | Soil                               |                    |                 |     | 0,0415<br>mg/kg |        |         |
| methyl methacrylate<br>80-62-6                             | aqua<br>(freshwater)               |                    | 0,94 mg/l       |     |                 |        |         |
| methyl methacrylate<br>80-62-6                             | aqua (marine<br>water)             |                    | 0,94 mg/l       |     |                 |        |         |
| methyl methacrylate<br>80-62-6                             | aqua<br>(intermittent<br>releases) |                    | 0,94 mg/l       |     |                 |        |         |
| methyl methacrylate<br>80-62-6                             | sewage<br>treatment plant<br>(STP) |                    | 10 mg/l         |     |                 |        |         |
| methyl methacrylate<br>80-62-6                             | sediment<br>(freshwater)           |                    |                 |     | 5,74 mg/kg      |        |         |
| methyl methacrylate  | Soil                               |                    |                 |     | 1,47 mg/kg      |        |         |



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|         |  |  |  |  |  |  |  |  |
|---------|--|--|--|--|--|--|--|--|
| 80-62-6 |  |  |  |  |  |  |  |  |
|---------|--|--|--|--|--|--|--|--|

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

| Name on list  | Application Area   | Route of Exposure | Health Effect                                | Exposure Time | Value                  | Remarks |
|---|--------------------|-------------------|--|---------------|------------------------|---------|
| 2-Ethylhexyl methacrylate<br>688-84-6                         | worker             | dermal            | Long term exposure - systemic effects        |               | 5 mg/kg                |         |
| Decan-1-ol<br>112-30-1  | Workers            | inhalation        | Long term exposure - systemic effects        |               | 176 mg/m3              |         |
| Decan-1-ol<br>112-30-1  | Workers            | inhalation        | Long term exposure - local effects           |               | 129 mg/m3              |         |
| Decan-1-ol<br>112-30-1  | Workers            | dermal            | Long term exposure - systemic effects        |               | 250 mg/kg              |         |
| Decan-1-ol<br>112-30-1  | Workers            | dermal            | Long term exposure - local effects           |               | 0,19 mg/cm2 190 µg/cm2 |         |
| Decan-1-ol<br>112-30-1  | General population | inhalation        | Long term exposure - systemic effects        |               | 43,5 mg/m3             |         |
| Decan-1-ol<br>112-30-1  | General population | dermal            | Long term exposure - systemic effects        |               | 125 mg/kg              |         |
| Decan-1-ol<br>112-30-1  | General population | dermal            | Long term exposure - local effects           |               | 0,067 mg/cm2 67 µg/cm2 |         |
| Decan-1-ol<br>112-30-1  | General population | oral              | Long term exposure - systemic effects        |               | 12,5 mg/kg             |         |
| .alpha.,.alpha.-Dimethylbenzyl hydroperoxide<br>80-15-9       | Workers            | inhalation        | Long term exposure - systemic effects        |               | 6 mg/m3                |         |
| Maleic acid<br>110-16-7                                       | Workers            | dermal            | Acute/short term exposure - local effects    |               |                        |         |
| Maleic acid<br>110-16-7                                       | Workers            | dermal            | Long term exposure - local effects           |               |                        |         |
| Maleic acid<br>110-16-7                                       | Workers            | dermal            | Acute/short term exposure - systemic effects |               |                        |         |
| Maleic acid<br>110-16-7                                       | Workers            | dermal            | Long term exposure - systemic effects        |               |                        |         |
| Maleic acid<br>110-16-7                                       | Workers            | inhalation        | Acute/short term exposure - local effects    |               | 3 mg/m3                |         |
| Maleic acid<br>110-16-7                                       | Workers            | inhalation        | Long term exposure - systemic effects        |               | 3 mg/m3                |         |
| Maleic acid<br>110-16-7                                       | Workers            | inhalation        | Long term exposure - local effects           |               | 3 mg/m3                |         |
| Maleic acid<br>110-16-7                                       | Workers            | inhalation        | Acute/short term exposure - systemic effects |               | 3 mg/m3                |         |
| N,N'-Ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide)<br>----- | Workers            | inhalation        | Long term exposure - systemic effects        |               | 35,24 mg/m3            |         |
| N,N'-Ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide)<br>----- | Workers            | inhalation        | Acute/short term exposure - systemic effects |               | 35,24 mg/m3            |         |
| N,N'-Ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide)<br>----- | Workers            | inhalation        | Long term exposure - local effects           |               | 3,35 mg/m3             |         |
| N,N'-Ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide)<br>----- | Workers            | inhalation        | Acute/short term exposure - local effects    |               | 3,35 mg/m3             |         |
| N,N'-Ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide)<br>----- | General population | inhalation        | Long term exposure - systemic effects        |               | 8,69 mg/m3             |         |
| N,N'-Ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide)          | General population | inhalation        | Acute/short term exposure -                  |               | 8,69 mg/m3             |         |

|   |                    |            |  |  |             |  |
|---|--------------------|------------|--|--|-------------|--|
| -----   |                    |            | systemic effects                             |  |             |  |
| N,N'-Ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide)<br>----- | General population | inhalation | Long term exposure - local effects           |  | 0,83 mg/m3  |  |
| N,N'-Ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide)<br>----- | General population | inhalation | Acute/short term exposure - local effects    |  | 0,83 mg/m3  |  |
| N,N'-Ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide)<br>----- | General population | oral       | Long term exposure - systemic effects        |  | 5 mg/kg     |  |
| N,N'-Ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide)<br>----- | General population | oral       | Acute/short term exposure - systemic effects |  | 5 mg/kg     |  |
| methyl methacrylate 80-62-6                                   | Workers            | Inhalation | Long term exposure - systemic effects        |  | 348,4 mg/m3 |  |
| methyl methacrylate 80-62-6                                   | Workers            | Inhalation | Long term exposure - local effects           |  | 208 mg/m3   |  |
| methyl methacrylate 80-62-6                                   | Workers            | inhalation | Acute/short term exposure - local effects    |  | 416 mg/m3   |  |
| methyl methacrylate 80-62-6                                   | Workers            | dermal     | Long term exposure - systemic effects        |  | 13,67 mg/kg |  |
| methyl methacrylate 80-62-6                                   | Workers            | dermal     | Long term exposure - local effects           |  | 1,5 mg/cm2  |  |
| methyl methacrylate 80-62-6                                   | Workers            | dermal     | Acute/short term exposure - local effects    |  | 1,5 mg/cm2  |  |
| methyl methacrylate 80-62-6                                   | General population | Inhalation | Long term exposure - systemic effects        |  | 74,3 mg/m3  |  |
| methyl methacrylate 80-62-6                                   | General population | Inhalation | Long term exposure - local effects           |  | 104 mg/m3   |  |
| methyl methacrylate 80-62-6                                   | General population | inhalation | Acute/short term exposure - local effects    |  | 208 mg/m3   |  |
| methyl methacrylate 80-62-6                                   | General population | dermal     | Long term exposure - systemic effects        |  | 8,2 mg/kg   |  |
| methyl methacrylate 80-62-6                                   | General population | dermal     | Long term exposure - local effects           |  | 1,5 mg/cm2  |  |
| methyl methacrylate 80-62-6                                   | General population | dermal     | Acute/short term exposure - local effects    |  | 1,5 mg/cm2  |  |
| methyl methacrylate 80-62-6                                   | General population | oral       | Long term exposure - systemic effects        |  |             |  |

**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 > 30 minutes permeation time as per EN 374):

nitrile rubber (NBR;  $\geq 0.4$  mm thickness)

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

nitrile rubber (NBR;  $\geq 0.4$  mm thickness)

This information is based on literature references and on information provided by glove manufacturers, or is derived by analogy with similar substances. Please note that in practice the working life of chemical-resistant protective gloves may be considerably shorter than the permeation time determined in accordance with EN 374 as a result of the many influencing factors (e.g. temperature). If signs of wear and tear are noticed then the gloves should be replaced.

**Eye protection:**

Safety glasses with sideshields or chemical safety goggles 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   | paste   |
| Colour  | white   |
| Odor  | mild, Acrylic   |
| Physical state  | liquid  |
| Melting point   | Not applicable, Product is a liquid   |
| Solidification temperature                                  | < -30 °C (< -22 °F)   |
| Initial boiling point                                       | > 150 °C (> 302 °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-polar/aprotic.   |
| Viscosity (kinematic)<br>(40 °C (104 °F); )                 | > 20,5 mm <sup>2</sup> /s   |
| Solubility (qualitative)<br>(20 °C (68 °F); Solvent: Water) | Slight  |
| Partition coefficient: n-octanol/water                      | Not applicable<br>Mixture   |
| Vapour pressure<br>(20 °C (68 °F))                          | < 0,13 mbar   |
| Density<br>(20 °C (68 °F))                                  | 1,05 g/cm <sup>3</sup> None   |
| Relative vapour density:<br>(20 °C)                         | > 1   |
| Particle characteristics                                    | 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  |
|--|---------------|---------------|---------|---|
| 2-Ethylhexyl methacrylate<br>688-84-6  | LD0           | > 2.000 mg/kg | rat     | OECD Guideline 401 (Acute Oral Toxicity)                          |
| 2-Ethylhexyl methacrylate<br>688-84-6  | LD50          | > 2.000 mg/kg | rat     | OECD Guideline 401 (Acute Oral Toxicity)                          |
| Decan-1-ol<br>112-30-1   | LD50          | > 5.000 mg/kg | rat     | EPA OPPTS 870.1100 (Acute Oral Toxicity)                          |
| Cumene hydroperoxide<br>80-15-9  | LD50          | 382 mg/kg     | rat     | other guideline:  |
| Acetic acid, 2-<br>phenylhydrazide<br>114-83-0   | LD50          | 270 mg/kg     | rat     | not specified   |
| maleic acid<br>110-16-7  | LD50          | 708 mg/kg     | rat     | not specified   |
| Reaction mass of N,N'-<br>ethane-1,2-diylbis(12-<br>hydroxyoctadecan-1-<br>amide), Octadecanamide,<br>12-hydroxy-N-[2-[(1-<br>oxooctadecyl)amino]ethyl<br>]----- | LD50          | > 2.000 mg/kg | rat     | OECD Guideline 423 (Acute Oral toxicity)                          |
| methyl methacrylate<br>80-62-6   | LD50          | 9.400 mg/kg   | rat     | not specified   |
| 1,4-Naphthalenedione<br>130-15-4   | LD50          | 124 mg/kg     | rat     | equivalent or similar to OECD Guideline 401 (Acute Oral Toxicity) |

**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  |
|---------------------------------------|--|----------------|---------|---|
| 2-Ethylhexyl methacrylate<br>688-84-6 | LD50                                   | > 20.000 mg/kg | rat     | not specified   |
| Decan-1-ol<br>112-30-1                | LD50                                   | > 5.000 mg/kg  | rat     | EPA OPPTS 870.1200 (Acute Dermal Toxicity)                          |
| Cumene hydroperoxide<br>80-15-9       | Acute<br>toxicity<br>estimate<br>(ATE) | 1.100 mg/kg    |         | Expert judgement  |
| maleic acid<br>110-16-7               | LD50                                   | 1.560 mg/kg    | rabbit  | not specified   |
| methyl methacrylate<br>80-62-6        | LD50                                   | > 5.000 mg/kg  | rabbit  | equivalent or similar to OECD Guideline 402 (Acute Dermal Toxicity) |

**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   |
|--|--|-------------|-----------------|------------------|---------|--|
| Decan-1-ol<br>112-30-1   | Acute<br>toxicity<br>estimate<br>(ATE) | 5,1 mg/l    | dust/mist       |                  |         | Expert judgement   |
| Decan-1-ol<br>112-30-1   | LC50                                   | 4 mg/l      |                 | 2 h              | mouse   |  |
| Cumene hydroperoxide<br>80-15-9  | LC50                                   | 1,370 mg/l  | vapour          | 4 h              | rat     | not specified  |
| Reaction mass of N,N'-<br>ethane-1,2-diylbis(12-<br>hydroxyoctadecan-1-<br>amide), Octadecanamide,<br>12-hydroxy-N-[2-[(1-<br>oxooctadecyl)amino]ethyl<br>]----- | LC50                                   | > 5,05 mg/l | dust/mist       | 4 h              | rat     | OECD Guideline 436 (Acute Inhalation Toxicity: Acute Toxic Class (ATC) Method) |
| methyl methacrylate<br>80-62-6   | LC50                                   | 29,8 mg/l   | vapour          | 4 h              | rat     | not specified  |
| 1,4-Naphthalenedione<br>130-15-4   | LC50                                   | 0,046 mg/l  | dust/mist       | 4 h              | rat     | OECD Guideline 403 (Acute Inhalation Toxicity)                                 |

**Skin corrosion/irritation:**

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

| Hazardous substances<br>CAS-No.  | Result                     | Exposure<br>time | Species | Method   |
|----------------------------------|----------------------------|------------------|---------|--|
| Decan-1-ol<br>112-30-1           | not irritating             | 4 h              | rabbit  | EPA OPPTS 870.2500 (Acute Dermal Irritation)             |
| Cumene hydroperoxide<br>80-15-9  | corrosive                  |                  | rabbit  | Draize Test  |
| maleic acid<br>110-16-7          | irritating                 | 24 h             | human   | Patch Test   |
| 1,4-Naphthalenedione<br>130-15-4 | Category 1C<br>(corrosive) |                  | rabbit  | OECD Guideline 404 (Acute Dermal Irritation / Corrosion) |

**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  |
|---------------------------------|----------------------|------------------|---------|---|
| Decan-1-ol<br>112-30-1          | irritating           |                  | rabbit  | EPA OPPTS 870.2400 (Acute Eye Irritation)             |
| maleic acid<br>110-16-7         | highly<br>irritating |                  | rabbit  | OECD Guideline 405 (Acute Eye Irritation / Corrosion) |

**Respiratory or skin sensitization:**

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

| Hazardous substances<br>CAS-No.  | Result          | Test type                             | Species    | Method   |
|--|-----------------|---------------------------------------|------------|--|
| 2-Ethylhexyl methacrylate<br>688-84-6  | sensitising     | Guinea pig maximisation<br>test       | guinea pig | Magnusson and Kligman Method                                       |
| Decan-1-ol<br>112-30-1   | not sensitising | Buehler test                          | guinea pig | EPA OPPTS 870.2600 (Skin<br>Sensitisation)                         |
| maleic acid<br>110-16-7  | sensitising     | Mouse local lymphnode<br>assay (LLNA) | mouse      | OECD Guideline 429 (Skin Sensitisation:<br>Local Lymph Node Assay) |
| maleic acid<br>110-16-7  | sensitising     | Mouse local lymphnode<br>assay (LLNA) | guinea pig | OECD Guideline 406 (Skin Sensitisation)                            |
| Reaction mass of N,N'-<br>ethane-1,2-diylbis(12-<br>hydroxyoctadecan-1-<br>amide), Octadecanamide,<br>12-hydroxy-N-[2-[(1-<br>oxooctadecyl)amino]ethyl<br>]----- | sensitising     | Guinea pig maximisation<br>test       | guinea pig | OECD Guideline 406 (Skin Sensitisation)                            |
| methyl methacrylate<br>80-62-6   | sensitising     | Mouse local lymphnode<br>assay (LLNA) | mouse      | OECD Guideline 429 (Skin Sensitisation:<br>Local Lymph Node Assay) |
| 1,4-Naphthalenedione<br>130-15-4   | sensitising     | not specified                         | 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  |
|---------------------------------------|----------|--|--|---------|---|
| 2-Ethylhexyl methacrylate<br>688-84-6 | negative | bacterial reverse<br>mutation assay (e.g<br>Ames test) | with and without                           |         | OECD Guideline 471<br>(Bacterial Reverse Mutation<br>Assay)           |
| Decan-1-ol<br>112-30-1                | negative | bacterial reverse<br>mutation assay (e.g<br>Ames test) | with and without                           |         | Henkel Method   |
| 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)           |
| maleic acid<br>110-16-7               | negative | bacterial reverse<br>mutation assay (e.g<br>Ames test) | no data                                    |         | Ames Test   |
| maleic acid<br>110-16-7               | negative | mammalian cell<br>gene mutation assay                  | with and without                           |         | OECD Guideline 476 (In vitro<br>Mammalian Cell Gene<br>Mutation Test) |
| methyl methacrylate<br>80-62-6        | negative | bacterial reverse<br>mutation assay (e.g<br>Ames test) | with and without                           |         | not specified   |

**Carcinogenicity**

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

| Hazardous components CAS-No. | Result           | Route of application | Exposure time / Frequency of treatment | Species | Sex         | Method                                       |
|------------------------------|------------------|----------------------|--|---------|-------------|--|
| maleic acid<br>110-16-7      | not carcinogenic | oral: feed           | 2 y<br>daily                           | rat     | male/female | OECD Guideline 451 (Carcinogenicity Studies) |

**Reproductive toxicity:**

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

| Hazardous substances CAS-No. | Result / Value                          | Test type            | Route of application | Species | Method  |
|------------------------------|---|----------------------|----------------------|---------|---|
| maleic acid<br>110-16-7      | NOAEL F1 150 mg/kg<br>NOAEL F2 55 mg/kg | Two generation study | oral: gavage         | rat     | OECD Guideline 416 (Two-Generation Reproduction Toxicity Study) |

**STOT-single exposure:**

No data available.

**STOT-repeated exposure:**

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

| Hazardous substances CAS-No.    | Result / Value    | Route of application   | Exposure time / Frequency of treatment    | Species | Method   |
|---------------------------------|-------------------|------------------------|---|---------|--|
| Decan-1-ol<br>112-30-1          | NOAEL 1.000 mg/kg | dermal                 | 6 hours<br>5d/w over 13 consecutive weeks | rat     | OECD Guideline 411 (Subchronic Dermal Toxicity: 90-Day Study)      |
| Cumene hydroperoxide<br>80-15-9 |                   | inhalation:<br>aerosol | 6 h/d<br>5 d/w                            | rat     | not specified  |
| maleic acid<br>110-16-7         | NOAEL >= 40 mg/kg | oral: feed             | 90 d<br>daily                             | rat     | OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents) |
| methyl methacrylate<br>80-62-6  | LOAEL 2000 ppm    | inhalation             | 14 weeks<br>6 hrs/day, 5 days/wk          | mouse   | Dose Range Finding Study   |
| methyl methacrylate<br>80-62-6  | NOAEL 1000 ppm    | inhalation             | 14 weeks<br>6 hrs/day, 5 days/wk          | mouse   | Dose Range Finding Study   |

**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   |
|---|---------------|-----------------------------|---------------|---------------------|--|
| 2-Ethylhexyl methacrylate<br>688-84-6   | LC50          | 2,78 mg/l                   | 96 h          | Oryzias latipes     | OECD Guideline 203 (Fish, Acute Toxicity Test)           |
| Decan-1-ol<br>112-30-1  | LC50          | 2,2 - 2,5 mg/l              | 96 h          | Pimephales promelas | OECD Guideline 203 (Fish, Acute Toxicity Test)           |
| Decan-1-ol<br>112-30-1  | NOEC          | 0,26 mg/l                   | 33 d          | Pimephales promelas | OECD Guideline 210 (fish early life stage toxicity test) |
| Cumene hydroperoxide<br>80-15-9   | LC50          | 3,9 mg/l                    | 96 h          | Oncorhynchus mykiss | OECD Guideline 203 (Fish, Acute Toxicity Test)           |
| maleic acid<br>110-16-7   | LC50          | > 245 mg/l                  | 48 h          | Leuciscus idus      | DIN 38412-15   |
| Reaction mass of N,N'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide), Octadecanamide, 12-hydroxy-N-[2-[(1-oxooctadecyl)amino]ethyl]----- | LL50          | Toxicity > Water solubility | 96 h          | Oncorhynchus mykiss | OECD Guideline 203 (Fish, Acute Toxicity Test)           |
| Reaction mass of N,N'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide), Octadecanamide, 12-hydroxy-N-[2-[(1-oxooctadecyl)amino]ethyl]----- | NOELR         | Toxicity > Water solubility | 32 d          | Pimephales promelas | OECD Guideline 210 (fish early life stage toxicity test) |
| methyl methacrylate<br>80-62-6  | LC50          | 350 mg/l                    | 96 h          | Leuciscus idus      | OECD Guideline 203 (Fish, Acute Toxicity Test)           |
| 1,4-Naphthalenedione<br>130-15-4  | LC50          | 0,045 mg/l                  | 96 h          | Oryzias latipes     | OECD Guideline 203 (Fish, 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   |
|---|---------------|-----------------------------|---------------|---------------|--|
| 2-Ethylhexyl methacrylate<br>688-84-6   | EC50          | 4,56 mg/l                   | 48 h          | Daphnia magna | OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) |
| Decan-1-ol<br>112-30-1  | EC50          | 2,9 mg/l                    | 48 h          | Daphnia magna | OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) |
| Cumene hydroperoxide<br>80-15-9   | EC50          | 18,84 mg/l                  | 48 h          | Daphnia magna | OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) |
| maleic acid<br>110-16-7   | EC50          | 42,81 mg/l                  | 48 h          | Daphnia magna | OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) |
| Reaction mass of N,N'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide), Octadecanamide, 12-hydroxy-N-[2-[(1-oxooctadecyl)amino]ethyl]----- | EL50          | Toxicity > Water solubility | 48 h          | Daphnia magna | OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) |
| methyl methacrylate   | EC50          | 69 mg/l                     | 48 h          | Daphnia magna | EPA OTS 797.1300   |

|                                  |      |            |      |               |   |
|----------------------------------|------|------------|------|---------------|---|
| 80-62-6                          |      |            |      |               | (Aquatic Invertebrate Acute Toxicity Test, Freshwater Daphnids) |
| 1,4-Naphthalenedione<br>130-15-4 | EC50 | 0,026 mg/l | 48 h | Daphnia magna | OECD Guideline 202<br>(Daphnia sp. Acute 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                                      |
|---|---------------|-----------------------------|---------------|---------------|---|
| 2-Ethylhexyl methacrylate<br>688-84-6   | NOEC          | 0,105 mg/l                  | 21 d          | Daphnia magna | OECD 211 (Daphnia magna, Reproduction Test) |
| Decan-1-ol<br>112-30-1  | NOEC          | 0,11 mg/l                   | 21 d          | Daphnia magna | OECD 211 (Daphnia magna, Reproduction Test) |
| maleic acid<br>110-16-7   | NOEC          | 10 mg/l                     | 21 d          | Daphnia magna | other guideline:                            |
| Reaction mass of N,N'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide), Octadecanamide, 12-hydroxy-N-[2-[(1-oxooctadecyl)amino]ethyl]----- | NOEC          | Toxicity > Water solubility | 21 d          | Daphnia magna | OECD 211 (Daphnia magna, Reproduction Test) |
| methyl methacrylate<br>80-62-6  | NOEC          | 37 mg/l                     | 21 d          | Daphnia magna | OECD 211 (Daphnia 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  |
|--|---------------|--------------------------------|---------------|---|---|
| 2-Ethylhexyl methacrylate<br>688-84-6  | EC50          | 7,68 mg/l                      | 72 h          | Pseudokirchneriella subcapitata   | OECD Guideline 201 (Alga,<br>Growth Inhibition Test)      |
| 2-Ethylhexyl methacrylate<br>688-84-6  | NOEC          | 0,28 mg/l                      | 72 h          | Pseudokirchneriella subcapitata   | OECD Guideline 201 (Alga,<br>Growth Inhibition Test)      |
| Decan-1-ol<br>112-30-1   | EC50          | 1,5 mg/l                       | 72 h          | Desmodesmus subspicatus   | QSAR (Quantitative<br>Structure Activity<br>Relationship) |
| Decan-1-ol<br>112-30-1   | EC10          | 0,7 mg/l                       | 72 h          | Desmodesmus subspicatus   | QSAR (Quantitative<br>Structure Activity<br>Relationship) |
| 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)      |
| maleic acid<br>110-16-7  | EC50          | 74,35 mg/l                     | 72 h          | Pseudokirchneriella subcapitata   | OECD Guideline 201 (Alga,<br>Growth Inhibition Test)      |
| maleic acid<br>110-16-7  | EC10          | 11,8 mg/l                      | 72 h          | Pseudokirchneriella subcapitata   | OECD Guideline 201 (Alga,<br>Growth Inhibition Test)      |
| Reaction mass of N,N'-<br>ethane-1,2-diylbis(12-<br>hydroxyoctadecan-1-amide),<br>Octadecanamide, 12-hydroxy-<br>N-[2-[(1-<br>oxooctadecyl)amino]ethyl]<br>----- | EC50          | Toxicity > Water<br>solubility | 72 h          | Pseudokirchneriella subcapitata   | OECD Guideline 201 (Alga,<br>Growth Inhibition Test)      |
| Reaction mass of N,N'-<br>ethane-1,2-diylbis(12-<br>hydroxyoctadecan-1-amide),<br>Octadecanamide, 12-hydroxy-<br>N-[2-[(1-<br>oxooctadecyl)amino]ethyl]<br>----- | NOEC          | Toxicity > Water<br>solubility | 72 h          | Pseudokirchneriella subcapitata   | OECD Guideline 201 (Alga,<br>Growth Inhibition Test)      |
| methyl methacrylate<br>80-62-6   | EC50          | 170 mg/l                       | 96 h          | Selenastrum capricornutum<br>(new name: Pseudokirchneriella<br>subcapitata) | OECD Guideline 201 (Alga,<br>Growth Inhibition Test)      |
| methyl methacrylate<br>80-62-6   | NOEC          | 100 mg/l                       | 96 h          | Selenastrum capricornutum<br>(new name: Pseudokirchneriella<br>subcapitata) | OECD Guideline 201 (Alga,<br>Growth Inhibition Test)      |
| 1,4-Naphthalenedione<br>130-15-4   | NOEC          | 0,07 mg/l                      | 72 h          | Pseudokirchneriella subcapitata   | OECD Guideline 201 (Alga,<br>Growth Inhibition Test)      |
| 1,4-Naphthalenedione<br>130-15-4   | EC50          | 0,42 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  |
|----------------------------------|---------------|------------------|---------------|--|---|
| Decan-1-ol<br>112-30-1           | EC0           | 10.000 mg/l      | 30 min        | Pseudomonas putida                                     | DIN 38412, part 27<br>(Bacterial oxygen<br>consumption test)                      |
| Cumene hydroperoxide<br>80-15-9  | EC10          | 70 mg/l          | 30 min        | not specified  | not specified   |
| maleic acid<br>110-16-7          | EC10          | 44,6 mg/l        | 18 h          | Pseudomonas putida                                     | DIN 38412, part 8<br>(Pseudomonas<br>Zellvermehrungshemm-<br>Test)                |
| methyl methacrylate<br>80-62-6   | EC20          | > 150 - 200 mg/l | 30 min        | activated sludge, domestic                             | ISO 8192 (Test for<br>Inhibition of Oxygen<br>Consumption by Activated<br>Sludge) |
| 1,4-Naphthalenedione<br>130-15-4 | EC50          | 5,94 mg/l        | 3 h           | activated sludge of a<br>predominantly domestic sewage | OECD Guideline 209<br>(Activated Sludge,<br>Respiration Inhibition 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  |
|---|------------------------------|-----------|---------------|------------------|---|
| 2-Ethylhexyl methacrylate<br>688-84-6   | readily biodegradable        | aerobic   | 88 %          | 28 d             | OECD Guideline 301 C (Ready Biodegradability: Modified MITI Test (I))       |
| Decan-1-ol<br>112-30-1  | readily biodegradable        | aerobic   | 88 %          | 30 d             | OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test)           |
| Cumene hydroperoxide<br>80-15-9   | not readily biodegradable.   | aerobic   | 3 %           | 28 d             | OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test)           |
| maleic acid<br>110-16-7   | readily biodegradable        | aerobic   | 97,08 %       | 28 d             | OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test)           |
| Reaction mass of N,N'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide), Octadecanamide, 12-hydroxy-N-[2-[(1-oxooctadecyl)amino]ethyl]----- | not readily biodegradable.   | aerobic   | 22 %          | 28 d             | OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test)           |
| Reaction mass of N,N'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide), Octadecanamide, 12-hydroxy-N-[2-[(1-oxooctadecyl)amino]ethyl]----- | not inherently biodegradable | aerobic   | 37 %          | 60 d             | OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test)           |
| methyl methacrylate<br>80-62-6  | readily biodegradable        | aerobic   | 94 %          | 14 d             | OECD Guideline 301 C (Ready Biodegradability: Modified MITI Test (I))       |
| 1,4-Naphthalenedione<br>130-15-4  | not readily biodegradable.   | aerobic   | 0 %           | 28 d             | OECD Guideline 301 F (Ready Biodegradability: Manometric Respirometry 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  |
|---------------------------------------|-------------------------------|---------------|-------------|-------------|---|
| 2-Ethylhexyl methacrylate<br>688-84-6 | 37                            | 56 h          | 24 °C       | Danio rerio | OECD Guideline 305 (Bioconcentration: Flow-through Fish Test) |
| Decan-1-ol<br>112-30-1                | 20                            |               |             | calculated  | 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   |
|---|--------|-------------|--|
| 2-Ethylhexyl methacrylate<br>688-84-6   | 4,95   | 20 °C       | OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method) |
| Decan-1-ol<br>112-30-1  | 4,5    | 25 °C       | 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)        |
| Acetic acid, 2-phenylhydrazide<br>114-83-0  | 0,74   |             | not specified  |
| maleic acid<br>110-16-7   | -1,3   | 20 °C       | OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method) |
| Reaction mass of N,N'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide), Octadecanamide, 12-hydroxy-N-[2-[(1-oxooctadecyl)amino]ethyl]----- | 5,86   |             | OECD Guideline 117 (Partition Coefficient (n-octanol / water), HPLC Method)        |
| methyl methacrylate<br>80-62-6  | 1,38   | 20 °C       | other guideline:   |
| 1,4-Naphthalenedione<br>130-15-4  | 1,71   |             | not specified  |

**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  |
|---------------------------------------|---|
| 2-Ethylhexyl methacrylate<br>688-84-6 | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria. |
| Decan-1-ol<br>112-30-1                | 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. |
| maleic acid<br>110-16-7               | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria. |
| methyl methacrylate<br>80-62-6        | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria. |
| 1,4-Naphthalenedione<br>130-15-4      | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria. |

**12.6. 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**

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

**14.2. UN proper shipping name**

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

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

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

**14.4. Packing group**

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

**14.5. Environmental hazards**

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

**14.6. Special precautions for user**

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

**14.7. 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 1005/2009):

Not applicable

Prior Informed Consent (PIC) (Regulation (EU) No 649/2012):

Not applicable

Persistent organic pollutants (Regulation (EU) 2019/1021):

Not applicable

VOC content

< 3 %

(2010/75/EC)

**15.2. Chemical safety assessment**

A chemical safety assessment has not been carried out.

**National regulations/information (Germany):**

WGK: WGK 1: slightly hazardous to water (Ordinance on facilities for handling substances that are hazardous to water (AwSV) )  
Classification according to AwSV, Annex 1 (5.2)

Storage class according to TRGS 510: 10

## 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:

H225 Highly flammable liquid and vapour.  
H242 Heating may cause a fire.  
H301 Toxic if swallowed.  
H302 Harmful if swallowed.  
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.  
H335 May cause respiratory irritation.  
H351 Suspected of causing cancer.  
H373 May cause damage to organs through prolonged or repeated exposure.  
H400 Very toxic to aquatic life.  
H410 Very toxic to aquatic life with long lasting effects.  
H411 Toxic to aquatic life with long lasting effects.  
H412 Harmful to aquatic life with long lasting effects.  
H413 May cause long lasting harmful effects to aquatic life.

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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