



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

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LOCTITE 577 ACC50ML EGFD

SDS No. : 541371

V011.1

Revision: 24.08.2023

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Replaces version from: 07.08.2023

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

#### 1.1. Product identifier

LOCTITE 577 ACC50ML EGFD

#### 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 <https://mysds.henkel.com/index.html#/appSelection> 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 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

#### 2.2. Label elements

##### Label elements (CLP):

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

Tetramethylene dimethacrylate

2,2'-Ethylenedioxydiethyl dimethacrylate

Acetic acid, 2-phenylhydrazide  
maleic acidReaction mass of N,N'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide),  
Octadecanamide, 12-hydroxy-N-[2-[(1-oxooctadecyl)amino]ethyl]**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.**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.  
P280 Wear protective gloves.**Precautionary statement:  
Response**P333+P313 If skin irritation or rash occurs: Get medical advice/attention.  
P337+P313 If eye irritation persists: Get medical advice/attention.  
P302+P352 IF ON SKIN: Wash with plenty of soap and water.**2.3. Other hazards**

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> |
|--|---|---|--|-------------------------|
| Tetramethylene dimethacrylate<br>2082-81-7<br>218-218-1<br>01-2119967415-30  | 10- 20 %                                  | Skin Sens. 1B, H317<br>Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>STOT SE 3, H335   | STOT SE 3; H335; C >= 10 %   |                         |
| 2,2'-Ethylenedioxydiethyl dimethacrylate<br>109-16-0<br>203-652-6<br>01-2119969287-21  | 5- < 10 %                                 | Skin Sens. 1B, H317   | dermal:ATE = > 5.000 mg/kg<br>inhalation:ATE = 28,17 mg/l;dust/mist  |                         |
| 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   |  |                         |
| Cumene hydroperoxide<br>80-15-9<br>201-254-7<br>01-2119475796-19   | 0,1- < 1 %                                | 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 |                         |
| 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   |  |                         |
| Menadione<br>58-27-5<br>200-372-6<br>01-2120773243-56  | 0,0025- < 0,025 %<br>( 25 ppm- < 250 ppm) | Acute Tox. 4, Oral, H302<br>Eye Irrit. 2, H319<br>Skin Irrit. 2, H315<br>STOT SE 3, H335<br>Skin Sens. 1, H317<br>Aquatic Acute 1, H400<br>Aquatic Chronic 1, H410                                      | M acute = 10<br>M chronic = 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

General information:

In case of adverse health effects seek medical advice.

Inhalation:

Move to fresh air, consult doctor if complaint persists.

**Skin contact:**

Rinse with running water and soap. Apply replenishing cream. Change all contaminated clothing. If necessary, see a dermatologist.

**Eye contact:**

Immediately flush eyes with soft jet of water or eye rinse solution for at least 5 minutes. If pains remain (intensive smarting, sensitivity to light, visual disturbance) continue flushing and contact/seek doctor or hospital.

**Ingestion:**

Rinse mouth and throat. Drink 1-2 glasses of water. Seek medical advice.

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

May cause an allergic skin reaction.

**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:**

carbon dioxide, foam, powder, water spray jet, fine water spray

**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.

Wear protective equipment.

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

Wear protective equipment.

Danger of slipping on spilled product.

Avoid contact with skin and eyes.

**6.2. Environmental precautions**

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

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

Remove with liquid-absorbing material (sand, peat, sawdust).

Dispose of contaminated material as waste according to Section 13.

**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.

**Hygiene measures:**

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.

Store in a cool, dry place.

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 |
|--|-----|-------------------|------------------------------|--|-----------------|
| Ethene, homopolymer<br>9002-88-4<br>[DUST, INHALABLE DUST]             |     | 10                | Time Weighted Average (TWA): |  | EH40 WEL        |
| Ethene, homopolymer<br>9002-88-4<br>[DUST, RESPIRABLE DUST]            |     | 4                 | Time Weighted Average (TWA): |  | EH40 WEL        |
| Silicon dioxide<br>112945-52-5<br>[SILICA, AMORPHOUS, INHALABLE DUST]  |     | 6                 | Time Weighted Average (TWA): |  | EH40 WEL        |
| Silicon dioxide<br>112945-52-5<br>[SILICA, AMORPHOUS, RESPIRABLE DUST] |     | 2,4               | Time Weighted Average (TWA): |  | EH40 WEL        |
| Silicon dioxide<br>112945-52-5<br>[Dust, respirable dust]              |     | 4                 | Time Weighted Average (TWA): |  | EH40 WEL        |
| Silicon dioxide<br>112945-52-5<br>[Dust, inhalable dust]               |     | 10                | Time Weighted Average (TWA): |  | 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 |
|--|-----|-------------------|------------------------------|--|-----------------|
| Ethene, homopolymer<br>9002-88-4<br>[DUSTS NON-SPECIFIC] |     | 10                | Time Weighted Average (TWA): |  | IR_OEL          |
| Ethene, homopolymer<br>9002-88-4<br>[DUSTS NON-SPECIFIC] |     | 4                 | Time Weighted Average (TWA): |  | IR_OEL          |
| Silicon dioxide<br>112945-52-5<br>[SILICA, AMORPHOUS]    |     | 6                 | Time Weighted Average (TWA): |  | IR_OEL          |
| Silicon dioxide<br>112945-52-5<br>[SILICA, AMORPHOUS]    |     | 2,4               | Time Weighted Average (TWA): |  | IR_OEL          |
| Silicon dioxide<br>112945-52-5<br>[DUSTS NON-SPECIFIC]   |     | 10                | Time Weighted Average (TWA): |  | IR_OEL          |
| Silicon dioxide<br>112945-52-5<br>[DUSTS NON-SPECIFIC]   |     | 4                 | Time Weighted Average (TWA): |  | IR_OEL          |

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

| Name on list  | Environmental Compartment       | Exposure period | Value        |     |              |        | Remarks                          |
|---|---------------------------------|-----------------|--------------|-----|--------------|--------|----------------------------------|
|   |                                 |                 | mg/l         | ppm | mg/kg        | others |                                  |
| Tetramethylene dimethacrylate<br>2082-81-7              | aqua<br>(freshwater)            |                 | 0,043 mg/l   |     |              |        |                                  |
| Tetramethylene dimethacrylate<br>2082-81-7              | aqua (marine water)             |                 | 0,004 mg/l   |     |              |        |                                  |
| Tetramethylene dimethacrylate<br>2082-81-7              | aqua<br>(intermittent releases) |                 | 0,098 mg/l   |     |              |        |                                  |
| Tetramethylene dimethacrylate<br>2082-81-7              | sewage treatment plant (STP)    |                 | 2 mg/l       |     |              |        |                                  |
| Tetramethylene dimethacrylate<br>2082-81-7              | sediment<br>(freshwater)        |                 |              |     | 3,12 mg/kg   |        |                                  |
| Tetramethylene dimethacrylate<br>2082-81-7              | sediment<br>(marine water)      |                 |              |     | 0,312 mg/kg  |        |                                  |
| Tetramethylene dimethacrylate<br>2082-81-7              | Soil                            |                 |              |     | 0,573 mg/kg  |        |                                  |
| 2,2'-Ethylenedioxydiethyl dimethacrylate<br>109-16-0    | aqua<br>(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<br>(intermittent releases) |                 | 0,164 mg/l   |     |              |        |                                  |
| 2,2'-Ethylenedioxydiethyl dimethacrylate<br>109-16-0    | sediment<br>(freshwater)        |                 |              |     | 1,85 mg/kg   |        |                                  |
| 2,2'-Ethylenedioxydiethyl dimethacrylate<br>109-16-0    | sediment<br>(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<br>(freshwater)            |                 | 0,0031 mg/l  |     |              |        |                                  |
| .alpha.,.alpha.-Dimethylbenzyl hydroperoxide<br>80-15-9 | aqua<br>(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<br>(freshwater)        |                 |              |     | 0,023 mg/kg  |        |                                  |
| .alpha.,.alpha.-Dimethylbenzyl hydroperoxide<br>80-15-9 | sediment<br>(marine water)      |                 |              |     | 0,0023 mg/kg |        |                                  |
| .alpha.,.alpha.-Dimethylbenzyl hydroperoxide<br>80-15-9 | Soil                            |                 |              |     | 0,0029 mg/kg |        |                                  |
| Maleic acid<br>110-16-7                                 | aqua<br>(freshwater)            |                 | 0,1 mg/l     |     |              |        |                                  |
| Maleic acid<br>110-16-7                                 | aqua<br>(intermittent releases) |                 | 0,4281 mg/l  |     |              |        |                                  |
| Maleic acid<br>110-16-7                                 | sediment<br>(freshwater)        |                 |              |     | 0,334 mg/kg  |        |                                  |
| Maleic acid<br>110-16-7                                 | sewage treatment plant (STP)    |                 | 44,6 mg/l    |     |              |        |                                  |
| Maleic acid<br>110-16-7                                 | aqua (marine water)             |                 | 0,01 mg/l    |     |              |        |                                  |

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|                         |                            |  |  |  |                 |  |  |
|-------------------------|----------------------------|--|--|--|-----------------|--|--|
| 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 |  |  |

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

| Name on list  | Application Area   | Route of Exposure | Health Effect                                | Exposure Time | Value       | Remarks              |
|---|--------------------|-------------------|--|---------------|-------------|----------------------|
| Tetramethylene dimethacrylate<br>2082-81-7                    | Workers            | dermal            | Long term exposure - systemic effects        |               | 4,2 mg/kg   |                      |
| Tetramethylene dimethacrylate<br>2082-81-7                    | Workers            | inhalation        | Long term exposure - systemic effects        |               | 14,5 mg/m3  |                      |
| Tetramethylene dimethacrylate<br>2082-81-7                    | General population | inhalation        | Long term exposure - systemic effects        |               | 4,3 mg/m3   |                      |
| Tetramethylene dimethacrylate<br>2082-81-7                    | General population | dermal            | Long term exposure - systemic effects        |               | 2,5 mg/kg   |                      |
| Tetramethylene dimethacrylate<br>2082-81-7                    | General population | oral              | Long term exposure - systemic effects        |               | 2,5 mg/kg   |                      |
| 2,2'-Ethylenedioxydiethyl dimethacrylate<br>109-16-0          | Workers            | inhalation        | Long term exposure - systemic effects        |               | 48,5 mg/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     |                      |
| 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)          | General population | inhalation        | Long term exposure -                         |               | 8,69 mg/m3  |                      |



|  |                    |            |  |  |            |  |
|--|--------------------|------------|--|--|------------|--|
| -----  |                    |            | systemic effects                             |  |            |  |
| N,N'-Ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide) | General population | inhalation | Acute/short term exposure - systemic effects |  | 8,69 mg/m3 |  |
| -----  |                    |            |  |  |            |  |
| N,N'-Ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide) | General population | inhalation | Long term exposure - local effects           |  | 0,83 mg/m3 |  |
| -----  |                    |            |  |  |            |  |
| N,N'-Ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide) | General population | inhalation | Acute/short term exposure - local effects    |  | 0,83 mg/m3 |  |
| -----  |                    |            |  |  |            |  |
| N,N'-Ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide) | General population | oral       | Long term exposure - systemic effects        |  | 5 mg/kg    |  |
| -----  |                    |            |  |  |            |  |
| N,N'-Ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide) | General population | oral       | Acute/short term exposure - systemic effects |  | 5 mg/kg    |  |
| -----  |                    |            |  |  |            |  |

**Biological Exposure Indices:**

None

**8.2. Exposure controls:**

Engineering controls:

Ensure good ventilation/extraction.

Respiratory protection:

Not needed.

Hand protection:

Recommended are gloves made from Nitril rubber ( Material thickness >0,1 mm, Perforation time < 30s).Gloves should be replaced after each short time contact or contamination. Available at laboratory specialized trade or at pharmacies / chemist's shops.

In the case of longer contact protective gloves made from nitrile rubber are recommended according to EN 374.

material thickness &gt; 0.2 mm

Perforation time &gt; 10 minutes

In the case of longer and repeated contact please note that in practice the penetration times may be considerably shorter than those determined according to EN 374. The protective gloves must always be checked for their suitability for use at the specific workplace (e.g. mechanical and thermal stress, product compatibility, antistatic effects, etc.). The gloves must be replaced immediately at the first signs of wear and tear. The information provided by the manufacturers and given in the relevant trade association regulations for industrial safety must always be observed. We recommend that a hand care plan is drawn up in cooperation with a glove manufacturer and the trade association in accordance with the local operating conditions.

Eye protection:

Goggles which can be tightly sealed.

Protective eye equipment should conform to EN166.

Skin protection:

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                     | yellow  |
| 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)no method / method unknown |
| Flammability               | The product is not flammable.                 |
| Explosive limits           | Not applicable, The product is not flammable. |

|   |   |
|---|---|
| Flash point   | > 100 °C (> 212 °F); no method / method unknown   |
| 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   |
| Viscosity, dynamic<br>(Brookfield; Instrument: RVT; 25 °C (77 °F);<br>speed of rotation: 2,5 min <sup>-1</sup> ; Spindle No: 6) | 70.000,00 - 130.000,00 mPa.s LCT STM 10; Viscosity Brookfield   |
| Solubility (qualitative)<br>(20 °C (68 °F); Solvent: Water)   | Slight  |
| Partition coefficient: n-octanol/water  | Not applicable<br>Mixture   |
| Vapour pressure<br>(50 °C (122 °F))   | < 300 mbar;no method / method unknown   |
| Vapour pressure<br>(50 °C (122 °F))   | < 300 mbar;no method / method unknown   |
| Vapour pressure<br>(20 °C (68 °F))  | < 0,13 mbar   |
| Density<br>(20 °C (68 °F))  | 1,15 - 1,2 g/cm <sup>3</sup> no method / method unknown   |
| 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

None if used for intended purpose.

### 10.2. Chemical stability

Stable under recommended storage conditions.

### 10.3. Possibility of hazardous reactions

See section reactivity

### 10.4. Conditions to avoid

None if used for intended purpose.

### 10.5. Incompatible materials

None if used properly.

### 10.6. Hazardous decomposition products

None known.

## 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  |
|---|---------------|---------------|---------|---|
| Tetramethylene dimethacrylate<br>2082-81-7  | LD50          | 10.066 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   |
| Acetic acid, 2-phenylhydrazide<br>114-83-0  | LD50          | 270 mg/kg     | rat     | not specified   |
| Cumene hydroperoxide<br>80-15-9   | LD50          | 382 mg/kg     | rat     | other guideline:  |
| maleic acid<br>110-16-7   | LD50          | 708 mg/kg     | rat     | not specified   |
| Reaction mass of N,N'-ethane-1,2-diylbis(12-hydroxyoctadecan-1- amide), Octadecanamide, 12-hydroxy-N-[2-[(1-oxooctadecyl)amino]ethyl ]<br>----- | LD50          | > 2.000 mg/kg | rat     | OECD Guideline 423 (Acute Oral toxicity)                          |
| Menadione<br>58-27-5  | LD50          | 500 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           |
|--|-------------------------------|---------------|---------|------------------|
| Tetramethylene dimethacrylate<br>2082-81-7           | LD50                          | > 3.000 mg/kg | rabbit  | not specified    |
| 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 |
| maleic acid<br>110-16-7                              | LD50                          | 1.560 mg/kg   | rabbit  | not specified    |

**Acute inhalative toxicity:**

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

| Hazardous substances<br>CAS-No.  | Value<br>type                          | Value       | Test atmosphere | Exposure<br>time | Species | Method   |
|--|--|-------------|-----------------|------------------|---------|--|
| 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  |
| 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>]<br>----- | LC50                                   | > 5,05 mg/l | dust/mist       | 4 h              | rat     | OECD Guideline 436 (Acute<br>Inhalation Toxicity: Acute<br>Toxic Class (ATC) Method) |

**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        |
|---|----------------|------------------|---------|---------------|
| Tetramethylene<br>dimethacrylate<br>2082-81-7           | not irritating | 24 h             | rabbit  | FDA Guideline |
| 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   |
| maleic acid<br>110-16-7                                 | irritating     | 24 h             | human   | Patch 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  |
|---|----------------------|------------------|---------|---|
| Tetramethylene<br>dimethacrylate<br>2082-81-7           | not irritating       |                  | rabbit  | equivalent or similar to OECD Guideline 405 (Acute Eye<br>Irritation / Corrosion) |
| 2,2'-Ethylenedioxydiethyl<br>dimethacrylate<br>109-16-0 | not irritating       |                  | rabbit  | OECD Guideline 405 (Acute Eye Irritation / Corrosion)                             |
| 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  |
|---|-------------|------------------------------------|------------|---|
| Tetramethylene dimethacrylate<br>2082-81-7  | sensitising | Mouse local lymphnode assay (LLNA) | mouse      | OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay) |
| 2,2'-Ethylenedioxydiethyl dimethacrylate<br>109-16-0  | sensitising | Mouse local lymphnode assay (LLNA) | mouse      | OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay) |
| maleic acid<br>110-16-7   | sensitising | Mouse local lymphnode assay (LLNA) | mouse      | OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay) |
| maleic acid<br>110-16-7   | sensitising | Mouse local lymphnode assay (LLNA) | guinea pig | OECD Guideline 406 (Skin Sensitisation)                         |
| Reaction mass of N,N'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide), Octadecanamide, 12-hydroxy-N-[2-[(1-oxooctadecyl)amino]ethyl]----- | sensitising | Guinea pig maximisation test       | guinea pig | OECD Guideline 406 (Skin Sensitisation)                         |
| Menadione<br>58-27-5  | sensitising | Guinea pig maximisation 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   |
|--|----------|--|--|---------|--|
| Tetramethylene dimethacrylate<br>2082-81-7           | negative | in vitro mammalian chromosome aberration test    | with and without                           |         | OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)    |
| Tetramethylene dimethacrylate<br>2082-81-7           | negative | bacterial reverse mutation assay (e.g Ames test) | with and without                           |         | OECD Guideline 471 (Bacterial Reverse Mutation Assay)              |
| Tetramethylene dimethacrylate<br>2082-81-7           | positive | in vitro mammalian chromosome aberration test    | with and without                           |         | OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test) |
| 2,2'-Ethylenedioxydiethyl dimethacrylate<br>109-16-0 | negative | mammalian cell gene mutation assay               | with and without                           |         | OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)    |
| 2,2'-Ethylenedioxydiethyl dimethacrylate<br>109-16-0 | negative | bacterial reverse mutation assay (e.g Ames test) | with and without                           |         | OECD Guideline 471 (Bacterial Reverse Mutation Assay)              |
| 2,2'-Ethylenedioxydiethyl dimethacrylate<br>109-16-0 | negative | in vitro mammalian cell micronucleus test        | with and without                           |         | OECD Guideline 487 (In vitro Mammalian Cell Micronucleus Test)     |
| Cumene hydroperoxide<br>80-15-9                      | positive | bacterial reverse mutation assay (e.g Ames test) | without                                    |         | OECD Guideline 471 (Bacterial Reverse Mutation Assay)              |
| maleic acid<br>110-16-7                              | negative | bacterial reverse mutation assay (e.g Ames test) | no data                                    |         | Ames Test  |
| maleic acid<br>110-16-7                              | negative | mammalian cell gene mutation assay               | with and without                           |         | OECD Guideline 476 (In vitro Mammalian Cell Gene 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                                       |
|---------------------------------|------------------|-------------------------|---|---------|-------------|--|
| 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<br>CAS-No.                         | Result / Value                              | Test type                  | Route of<br>application | Species | Method  |
|---|---|----------------------------|-------------------------|---------|---|
| 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) |
| maleic acid<br>110-16-7                                 | NOAEL F1 150 mg/kg<br>NOAEL F2 55 mg/kg     | Two<br>generation<br>study | oral: gavage            | rat     | OECD Guideline 416 (Two-<br>Generation Reproduction<br>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<br>CAS-No.                         | Result / Value    | Route of<br>application | Exposure time /<br>Frequency of<br>treatment | Species | Method  |
|---|-------------------|-------------------------|--|---------|---|
| 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   |
| maleic acid<br>110-16-7                                 | NOAEL >= 40 mg/kg | oral: feed              | 90 d<br>daily                                | rat     | OECD Guideline 408<br>(Repeated Dose 90-Day<br>Oral Toxicity in Rodents)  |

**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, soil or bodies of 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   |
|---|---------------|-----------------------------|---------------|---------------------|--|
| Tetramethylene dimethacrylate<br>2082-81-7  | LC50          | 32,5 mg/l                   | 48 h          |                     | DIN 38412-15   |
| 2,2'-Ethylenedioxydiethyl dimethacrylate<br>109-16-0  | LC50          | 16,4 mg/l                   | 96 h          | Danio rerio         | OECD Guideline 203 (Fish, Acute 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]<br>----- | 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]<br>----- | NOELR         | Toxicity > Water solubility | 32 d          | Pimephales promelas | OECD Guideline 210 (fish early lite stage 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   |
|---|---------------|-----------------------------|---------------|---------------|--|
| 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]<br>----- | EL50          | Toxicity > Water solubility | 48 h          | Daphnia magna | OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) |
| Menadione<br>58-27-5  | EC50          | 0,31 mg/l                   | 48 h          | Daphnia magna | OECD Guideline 202 (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   |
|--|---------------|--------------------------------|---------------|---------------|--|
| Tetramethylene<br>dimethacrylate<br>2082-81-7  | NOEC          | 5,09 mg/l                      | 21 d          | Daphnia magna | OECD 211 (Daphnia<br>magna, Reproduction 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) |
| maleic acid<br>110-16-7  | NOEC          | 10 mg/l                        | 21 d          | Daphnia magna | other guideline:                               |
| 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 | 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  |
|---|---------------|-----------------------------|---------------|---|---|
| Tetramethylene dimethacrylate<br>2082-81-7  | EC50          | 9,79 mg/l                   | 72 h          | Desmodesmus subspicatus                                       | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| Tetramethylene dimethacrylate<br>2082-81-7  | NOEC          | 2,11 mg/l                   | 72 h          | Desmodesmus subspicatus                                       | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| 2,2'-Ethylenedioxydiethyl dimethacrylate<br>109-16-0  | EC50          | > 100 mg/l                  | 72 h          | Pseudokirchneriella subcapitata                               | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| 2,2'-Ethylenedioxydiethyl dimethacrylate<br>109-16-0  | NOEC          | 18,6 mg/l                   | 72 h          | Pseudokirchneriella subcapitata                               | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| Cumene hydroperoxide<br>80-15-9   | EC50          | 3,1 mg/l                    | 72 h          | Desmodesmus subspicatus (reported as Scenedesmus subspicatus) | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| Cumene hydroperoxide<br>80-15-9   | NOEC          | 1 mg/l                      | 72 h          | Desmodesmus subspicatus (reported as Scenedesmus subspicatus) | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| maleic acid<br>110-16-7   | EC50          | 74,35 mg/l                  | 72 h          | Pseudokirchneriella subcapitata                               | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| maleic acid<br>110-16-7   | EC10          | 11,8 mg/l                   | 72 h          | Pseudokirchneriella subcapitata                               | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| Reaction mass of N,N'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide), Octadecanamide, 12-hydroxy-N-[2-[(1-oxooctadecyl)amino]ethyl]----- | EC50          | Toxicity > Water solubility | 72 h          | Pseudokirchneriella subcapitata                               | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| 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 | 72 h          | Pseudokirchneriella subcapitata                               | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| Menadione<br>58-27-5  | EC50          | 0,064 mg/l                  | 72 h          | Desmodesmus subspicatus                                       | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| Menadione<br>58-27-5  | NOEC          | 0,009 mg/l                  | 72 h          | Desmodesmus subspicatus                                       | OECD Guideline 201 (Alga, 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   |
|--|---------------|-----------|---------------|----------------------------|--|
| Tetramethylene dimethacrylate<br>2082-81-7 | NOEC          | 20 mg/l   | 28 d          | activated sludge, domestic | not specified  |
| 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 (Pseudomonas Zellvermehrungshemm-Test) |

#### 12.2. Persistence and degradability

The product is not biodegradable.

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   |
|--|---------------------------------|-----------|---------------|------------------|--|
| Tetramethylene<br>dimethacrylate<br>2082-81-7  | readily biodegradable           | aerobic   | 84 %          | 28 d             | OECD Guideline 310 (Ready<br>Biodegradability CO2 in Sealed<br>Vessels (Headspace Test)) |
| 2,2'-Ethylenedioxydiethyl<br>dimethacrylate<br>109-16-0  | readily biodegradable           | aerobic   | 85 %          | 28 d             | OECD Guideline 301 B (Ready<br>Biodegradability: CO2 Evolution<br>Test)                  |
| Cumene hydroperoxide<br>80-15-9  | not readily biodegradable.      | aerobic   | 3 %           | 28 d             | OECD Guideline 301 B (Ready<br>Biodegradability: CO2 Evolution<br>Test)                  |
| maleic acid<br>110-16-7  | readily biodegradable           | aerobic   | 97,08 %       | 28 d             | OECD Guideline 301 B (Ready<br>Biodegradability: CO2 Evolution<br>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>----- | not readily biodegradable.      | aerobic   | 22 %          | 28 d             | OECD Guideline 301 D (Ready<br>Biodegradability: Closed Bottle<br>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>----- | not inherently<br>biodegradable | aerobic   | 37 %          | 60 d             | OECD Guideline 301 D (Ready<br>Biodegradability: Closed Bottle<br>Test)                  |
| Menadione<br>58-27-5   | not inherently<br>biodegradable | aerobic   | 0,000000 %    | 28 d             | OECD Guideline 302 C (Inherent<br>Biodegradability: Modified MITI<br>Test (II))          |

### 12.3. Bioaccumulative potential

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

| Hazardous substances<br>CAS-No. | Bioconcentratio<br>n factor (BCF) | Exposure time | Temperature | Species     | Method  |
|---------------------------------|-----------------------------------|---------------|-------------|-------------|---|
| Cumene hydroperoxide<br>80-15-9 | 9,1                               |               |             | calculation | OECD Guideline 305<br>(Bioconcentration: Flow-through<br>Fish Test) |

**12.4. Mobility in soil**

Cured adhesives are immobile.

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

| Hazardous substances<br>CAS-No.   | LogPow | Temperature | Method   |
|---|--------|-------------|--|
| Tetramethylene dimethacrylate<br>2082-81-7  | 3,1    |             | OECD Guideline 117 (Partition Coefficient (n-octanol / water), HPLC Method)        |
| 2,2'-Ethylenedioxydiethyl dimethacrylate<br>109-16-0  | 2,3    |             | OECD Guideline 117 (Partition Coefficient (n-octanol / water), HPLC Method)        |
| Acetic acid, 2-phenylhydrazide<br>114-83-0  | 0,74   |             | not specified  |
| Cumene hydroperoxide<br>80-15-9   | 1,6    | 25 °C       | OECD Guideline 117 (Partition Coefficient (n-octanol / water), HPLC Method)        |
| 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)        |
| Menadione<br>58-27-5  | 2,43   | 30 °C       | OECD Guideline 117 (Partition Coefficient (n-octanol / water), HPLC 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  |
|--|---|
| Tetramethylene dimethacrylate<br>2082-81-7           | 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. |
| maleic acid<br>110-16-7                              | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria. |
| Menadione<br>58-27-5                                 | 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 waste and residues in accordance with local authority requirements.

Disposal of uncleaned packages:

Use packages for recycling only when totally empty.

Waste code

080409

## 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 1005/2009): | Not applicable                         |
| Prior Informed Consent (PIC) (Regulation (EU) No 649/2012):     | Not applicable                         |
| Persistent organic pollutants (Regulation (EU) 2019/1021):      | perfluorooctanoic acid<br>CAS 335-67-1 |

VOC content  
(2010/75/EC)

< 3 %

**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:

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.  
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.  
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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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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