



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

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Loctite 270

SDS No. : 346906  
V009.1

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

#### 1.1. Product identifier

Loctite 270

#### 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            |            |
| Chronic hazards to the aquatic environment            | Category 2 |
| H411 Toxic to aquatic life with long lasting effects. |            |

#### 2.2. Label elements

##### Label elements (CLP):

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

3,3,5 Trimethylcyclohexyl methacrylate

2,2'-Ethylenedioxydiethyl dimethacrylate

maleic acid

Acetic acid, 2-phenylhydrazide

**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.

H411 Toxic to aquatic life with long lasting effects.

**Precautionary statement:**

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

**Precautionary statement:  
Prevention**

P261 Avoid breathing vapors.

P273 Avoid release to the environment.

P280 Wear protective gloves.

**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.

Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.

**Following substances are present in a concentration  $\geq 0,1\%$  and fulfill the criteria for PBT/vPvB, or were identified as endocrine disruptor (ED):**

This mixture does not contain any substances in concentration  $\geq$  the concentration limit 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> |
|---|--|---|--|-------------------------|
| 3,3,5 Trimethylcyclohexyl methacrylate<br>7779-31-9<br>231-927-0<br>01-2120748527-45  | 25- 50 %                                 | Aquatic Chronic 2, H411<br>Skin Sens. 1B, H317<br>STOT SE 3, H335<br>Skin Irrit. 2, H315<br>Eye Irrit. 2, H319  | 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  |                         |
| Cumene hydroperoxide<br>80-15-9<br>201-254-7<br>01-2119475796-19                      | 1- < 3 %                                 | STOT RE 2, H373<br>Skin Corr. 1B, H314<br>Acute Tox. 2, Inhalation, H330<br>Aquatic Chronic 2, H411<br>Acute Tox. 4, Oral, H302<br>Acute Tox. 4, Dermal, H312<br>Org. Perox. E, H242<br>STOT SE 3, H335 | Eye Irrit. 2; H319; C 1 - < 3 %<br>Skin Irrit. 2; H315; C 3 - < 10 %<br>Eye Dam. 1; H318; C 3 - < 10 %<br>STOT SE 3; H335; C >= 1 %<br>Skin Corr. 1B; H314; C >= 10 %<br>=====<br>dermal:ATE = 1.100 mg/kg |                         |
| 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 %   |                         |
| 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   |  |                         |
| 1,4-Naphthalenedione<br>130-15-4<br>204-977-6   | 0,01- < 0,025 %<br>( 100 ppm- < 250 ppm) | 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  |                         |

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

**Substances without classification may have community workplace exposure limits available.**

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### Inhalation:

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

#### Skin contact:

Rinse with running water and soap.

Obtain medical attention if irritation persists.

#### Eye contact:

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

Ingestion:

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

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

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:**

Carbon dioxide, foam, powder

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 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**

Ensure adequate ventilation.

Avoid contact with skin and eyes.

Wear protective equipment.

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**

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

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

Dispose of contaminated material as waste according to Section 13.

**6.4. Reference to other sections**

See advice in section 8

## SECTION 7: Handling and storage

**7.1. Precautions for safe handling**

Use only in well-ventilated areas.

Prolonged or repeated skin contact should be avoided to minimise any risk of sensitisation.

Avoid skin and eye contact.

See advice in section 8

**Hygiene measures:**

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

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

- Ensure good ventilation/extraction.
- Ensure good ventilation/extraction.
- Store in a cool, well-ventilated place.
- Storage at 8 to 28°C is recommended.
- Refer to Technical Data Sheet
- Store in a cool, well-ventilated place.
- Storage at 8 to 28°C is recommended.
- 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  
Great Britain

None

**Occupational Exposure Limits**

Valid for  
Ireland

None

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

| Name on list   | Environmental Compartment    | Exposure period | Value        |     |              |        | Remarks                          |
|--|------------------------------|-----------------|--------------|-----|--------------|--------|----------------------------------|
|  |                              |                 | mg/l         | ppm | mg/kg        | others |                                  |
| 3,3,5 Trimethylcyclohexyl methacrylate 7779-31-9     | aqua (freshwater)            |                 | 0,0019 mg/l  |     |              |        |                                  |
| 3,3,5 Trimethylcyclohexyl methacrylate 7779-31-9     | aqua (marine water)          |                 | 0,00019 mg/l |     |              |        |                                  |
| 3,3,5 Trimethylcyclohexyl methacrylate 7779-31-9     | aqua (intermittent releases) |                 | 0,019 mg/l   |     |              |        |                                  |
| 3,3,5 Trimethylcyclohexyl methacrylate 7779-31-9     | sewage treatment plant (STP) |                 | 100 mg/l     |     |              |        |                                  |
| 3,3,5 Trimethylcyclohexyl methacrylate 7779-31-9     | sediment (freshwater)        |                 |              |     | 0,141 mg/kg  |        |                                  |
| 3,3,5 Trimethylcyclohexyl methacrylate 7779-31-9     | sediment (marine water)      |                 |              |     | 0,014 mg/kg  |        |                                  |
| 3,3,5 Trimethylcyclohexyl methacrylate 7779-31-9     | Soil                         |                 |              |     | 0,027 mg/kg  |        |                                  |
| 2,2'-Ethylenedioxydiethyl dimethacrylate 109-16-0    | aqua (freshwater)            |                 | 0,164 mg/l   |     |              |        |                                  |
| 2,2'-Ethylenedioxydiethyl dimethacrylate 109-16-0    | aqua (marine water)          |                 | 0,0164 mg/l  |     |              |        |                                  |
| 2,2'-Ethylenedioxydiethyl dimethacrylate 109-16-0    | sewage treatment plant (STP) |                 | 10 mg/l      |     |              |        |                                  |
| 2,2'-Ethylenedioxydiethyl dimethacrylate 109-16-0    | aqua (intermittent releases) |                 | 0,164 mg/l   |     |              |        |                                  |
| 2,2'-Ethylenedioxydiethyl dimethacrylate 109-16-0    | sediment (freshwater)        |                 |              |     | 1,85 mg/kg   |        |                                  |
| 2,2'-Ethylenedioxydiethyl dimethacrylate 109-16-0    | sediment (marine water)      |                 |              |     | 0,185 mg/kg  |        |                                  |
| 2,2'-Ethylenedioxydiethyl dimethacrylate 109-16-0    | Soil                         |                 |              |     | 0,274 mg/kg  |        |                                  |
| 2,2'-Ethylenedioxydiethyl dimethacrylate 109-16-0    | Air                          |                 |              |     |              |        | no hazard identified             |
| 2,2'-Ethylenedioxydiethyl dimethacrylate 109-16-0    | Predator                     |                 |              |     |              |        | no potential for bioaccumulation |
| .alpha.,.alpha.-Dimethylbenzyl hydroperoxide 80-15-9 | aqua (freshwater)            |                 | 0,0031 mg/l  |     |              |        |                                  |
| .alpha.,.alpha.-Dimethylbenzyl hydroperoxide 80-15-9 | aqua (intermittent releases) |                 | 0,031 mg/l   |     |              |        |                                  |
| .alpha.,.alpha.-Dimethylbenzyl hydroperoxide 80-15-9 | aqua (marine water)          |                 | 0,00031 mg/l |     |              |        |                                  |
| .alpha.,.alpha.-Dimethylbenzyl hydroperoxide 80-15-9 | sewage treatment plant (STP) |                 | 0,35 mg/l    |     |              |        |                                  |
| .alpha.,.alpha.-Dimethylbenzyl hydroperoxide 80-15-9 | sediment (freshwater)        |                 |              |     | 0,023 mg/kg  |        |                                  |
| .alpha.,.alpha.-Dimethylbenzyl hydroperoxide 80-15-9 | sediment (marine water)      |                 |              |     | 0,0023 mg/kg |        |                                  |
| .alpha.,.alpha.-Dimethylbenzyl hydroperoxide 80-15-9 | Soil                         |                 |              |     | 0,0029 mg/kg |        |                                  |
| Maleic acid 110-16-7                                 | aqua (freshwater)            |                 | 0,1 mg/l     |     |              |        |                                  |
| Maleic acid 110-16-7                                 | aqua (intermittent releases) |                 | 0,4281 mg/l  |     |              |        |                                  |
| Maleic acid 110-16-7                                 | sediment (freshwater)        |                 |              |     | 0,334 mg/kg  |        |                                  |
| Maleic acid 110-16-7                                 | sewage treatment plant (STP) |                 | 44,6 mg/l    |     |              |        |                                  |
| Maleic acid 110-16-7                                 | aqua (marine 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 |  |  |

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

| Name on list  | Application Area   | Route of Exposure | Health Effect                                | Exposure Time | Value       | Remarks              |
|---|--------------------|-------------------|--|---------------|-------------|----------------------|
| 3,3,5 Trimethylcyclohexyl methacrylate<br>7779-31-9     | Workers            | inhalation        | Long term exposure - systemic effects        |               | 16,45 mg/m3 |                      |
| 3,3,5 Trimethylcyclohexyl methacrylate<br>7779-31-9     | Workers            | dermal            | Long term exposure - systemic effects        |               | 46,7 mg/kg  |                      |
| 3,3,5 Trimethylcyclohexyl methacrylate<br>7779-31-9     | General population | inhalation        | Long term exposure - systemic effects        |               | 2,9 mg/m3   |                      |
| 3,3,5 Trimethylcyclohexyl methacrylate<br>7779-31-9     | General population | dermal            | Long term exposure - systemic effects        |               | 1,67 mg/kg  |                      |
| 3,3,5 Trimethylcyclohexyl methacrylate<br>7779-31-9     | General population | oral              | Long term exposure - systemic effects        |               | 1,67 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    |               | 0,55 mg/cm2 |                      |
| Maleic acid<br>110-16-7                                 | Workers            | dermal            | Long term exposure - local effects           |               | 0,04 mg/cm2 |                      |
| Maleic acid<br>110-16-7                                 | Workers            | dermal            | Acute/short term exposure - systemic effects |               | 58 mg/kg    |                      |
| Maleic acid<br>110-16-7                                 | Workers            | dermal            | Long term exposure - systemic effects        |               | 3,3 mg/kg   |                      |
| 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     |                      |

**Biological Exposure Indices:**

None

**8.2. Exposure controls:**

Engineering controls:

Ensure good ventilation/extraction.

Respiratory protection:

Ensure adequate ventilation.

An approved mask or respirator fitted with an organic vapour cartridge should be worn if the product is used in a poorly ventilated area

Filter type: A (EN 14387)

Hand protection:

Chemical-resistant protective gloves (EN 374).

Suitable materials for short-term contact or splashes (recommended: at least protection index 2, corresponding to &gt; 30 minutes permeation time as per EN 374):

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

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

nitrile rubber (NBR;  $\geq 0.4$  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**

|   |   |
|---|---|
| Physical state                              | liquid  |
| Delivery form                               | liquid  |
| Colour                                      | green   |
| Odor  | mild, Acrylic   |
| 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>(Solvent: Acetone)                | Soluble                               |
| Solubility (qualitative)<br>(23 °C (73.4 °F); Solvent: Water) | Slight                                |
| Partition coefficient: n-octanol/water                        | Currently under determination         |
| Vapour pressure<br>(20 °C (68 °F))                            | < 0,13 mbar                           |
| Vapour pressure<br>(50 °C (122 °F))                           | < 2,8 mbar                            |
| Density<br>(20 °C (68 °F))                                    | 1,10 g/cm3 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

Strong oxidizing agents.  
Strong bases.  
Acids.  
Reducing agents.

### 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

### 1.1 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  |
|---|---------------|---------------|---------|---|
| 3,3,5 Trimethylcyclohexyl<br>methacrylate<br>7779-31-9  | LD0           | > 5.000 mg/kg | rat     | OECD Guideline 401 (Acute Oral Toxicity)                          |
| 3,3,5 Trimethylcyclohexyl<br>methacrylate<br>7779-31-9  | LD50          | > 5.000 mg/kg | rat     | OECD Guideline 401 (Acute Oral Toxicity)                          |
| 2,2'-Ethylenedioxydiethyl<br>dimethacrylate<br>109-16-0 | LD50          | 10.837 mg/kg  | rat     | not specified   |
| 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   |
| Acetic acid, 2-<br>phenylhydrazide<br>114-83-0          | LD50          | 270 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                                     |
|---|--|---------------|---------|--|
| 3,3,5 Trimethylcyclohexyl<br>methacrylate<br>7779-31-9  | LD0                                    | > 2.000 mg/kg | rat     | OECD Guideline 402 (Acute Dermal Toxicity) |
| 3,3,5 Trimethylcyclohexyl<br>methacrylate<br>7779-31-9  | LD50                                   | > 2.000 mg/kg | rat     | OECD Guideline 402 (Acute Dermal Toxicity) |
| 2,2'-Ethylenedioxydiethyl<br>dimethacrylate<br>109-16-0 | Acute<br>toxicity<br>estimate<br>(ATE) | > 5.000 mg/kg |         | Expert judgement                           |
| 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                              |

**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                                     |
| 1,4-Naphthalenedione<br>130-15-4                        | LC50                                   | 0,046 mg/l | dust/mist       | 4 h              | rat     | OECD Guideline 403 (Acute<br>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   |
|---|----------------------------|------------------|---------|--|
| 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   |
| 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  |
|---|----------------------|------------------|---------|---|
| 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   |
|---|-------------|---------------------------------------|------------|--|
| 3,3,5 Trimethylcyclohexyl<br>methacrylate<br>7779-31-9  | sensitising | Mouse local lymphnode<br>assay (LLNA) | mouse      | OECD Guideline 429 (Skin Sensitisation:<br>Local Lymph Node Assay) |
| 2,2'-Ethylenedioxydiethyl<br>dimethacrylate<br>109-16-0 | 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) | 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)                            |
| 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  |
|---|----------|--|--|---------|---|
| 3,3,5 Trimethylcyclohexyl<br>methacrylate<br>7779-31-9  | negative | bacterial reverse<br>mutation assay (e.g<br>Ames test) | with and without                           |         | OECD Guideline 471<br>(Bacterial Reverse Mutation<br>Assay)           |
| 2,2'-Ethylenedioxydiethyl<br>dimethacrylate<br>109-16-0 | negative | mammalian cell<br>gene mutation assay                  | with and without                           |         | OECD Guideline 476 (In vitro<br>Mammalian Cell Gene<br>Mutation Test) |
| 2,2'-Ethylenedioxydiethyl<br>dimethacrylate<br>109-16-0 | negative | bacterial reverse<br>mutation assay (e.g<br>Ames test) | with and without                           |         | OECD Guideline 471<br>(Bacterial Reverse Mutation<br>Assay)           |
| 2,2'-Ethylenedioxydiethyl<br>dimethacrylate<br>109-16-0 | negative | in vitro mammalian<br>cell micronucleus<br>test        | with and without                           |         | OECD Guideline 487 (In vitro<br>Mammalian Cell<br>Micronucleus Test)  |
| Cumene hydroperoxide<br>80-15-9                         | positive | bacterial reverse<br>mutation assay (e.g<br>Ames test) | without                                    |         | OECD Guideline 471<br>(Bacterial Reverse Mutation<br>Assay)           |
| 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) |

**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<br>(Carcinogenicity<br>Studies) |

**Reproductive toxicity:**

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

| Hazardous substances<br>CAS-No.                         | Result / Value                              | Test type                  | Route of<br>application | Species | Method  |
|---|---|----------------------------|-------------------------|---------|---|
| 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.

| <b>Hazardous substances<br/>CAS-No.</b>                 | <b>Result / Value</b> | <b>Route of<br/>application</b> | <b>Exposure time /<br/>Frequency of<br/>treatment</b> | <b>Species</b> | <b>Method</b>   |
|---|-----------------------|---------------------------------|---|----------------|---|
| 3,3,5 Trimethylcyclohexyl<br>methacrylate<br>7779-31-9  | NOAEL 1.000 mg/kg     | oral: gavage                    | 28 d<br>daily   | rat            | OECD Guideline 422<br>(Combined Repeated<br>Dose Toxicity Study with<br>the Reproduction /<br>Developmental Toxicity<br>Screening Test) |
| 2,2'-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 / surface water / ground water.

### 12.1. Toxicity

#### Toxicity (Fish):

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

| Hazardous substances<br>CAS-No.                         | Value<br>type | Value      | Exposure time | Species                                      | Method  |
|---|---------------|------------|---------------|--|---|
| 3,3,5 Trimethylcyclohexyl<br>methacrylate<br>7779-31-9  | LC50          | 1,9 mg/l   | 96 h          | Brachydanio rerio (new name:<br>Danio rerio) | OECD Guideline 203 (Fish,<br>Acute Toxicity Test) |
| 2,2'-Ethylenedioxydiethyl<br>dimethacrylate<br>109-16-0 | LC50          | 16,4 mg/l  | 96 h          | Danio rerio                                  | OECD Guideline 203 (Fish,<br>Acute Toxicity Test) |
| Cumene hydroperoxide<br>80-15-9                         | LC50          | 3,9 mg/l   | 96 h          | Oncorhynchus mykiss                          | OECD Guideline 203 (Fish,<br>Acute Toxicity Test) |
| maleic acid<br>110-16-7                                 | LC50          | > 245 mg/l | 48 h          | Leuciscus idus                               | DIN 38412-15                                      |
| 1,4-Naphthalenedione<br>130-15-4                        | LC50          | 0,045 mg/l | 96 h          | Oryzias latipes                              | OECD Guideline 203 (Fish,<br>Acute Toxicity Test) |

#### Toxicity (Daphnia):

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

| Hazardous substances<br>CAS-No.                        | Value<br>type | Value      | Exposure time | Species       | Method   |
|--|---------------|------------|---------------|---------------|--|
| 3,3,5 Trimethylcyclohexyl<br>methacrylate<br>7779-31-9 | EC50          | 14,43 mg/l | 48 h          | Daphnia magna | OECD Guideline 202<br>(Daphnia sp. Acute<br>Immobilisation Test) |
| Cumene hydroperoxide<br>80-15-9                        | EC50          | 18,84 mg/l | 48 h          | Daphnia magna | OECD Guideline 202<br>(Daphnia sp. Acute<br>Immobilisation Test) |
| maleic acid<br>110-16-7                                | EC50          | 42,81 mg/l | 48 h          | Daphnia magna | OECD Guideline 202<br>(Daphnia sp. Acute<br>Immobilisation Test) |
| 1,4-Naphthalenedione<br>130-15-4                       | EC50          | 0,026 mg/l | 48 h          | Daphnia magna | OECD Guideline 202<br>(Daphnia sp. Acute<br>Immobilisation Test) |

#### Chronic toxicity to aquatic invertebrates

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

| Hazardous substances<br>CAS-No.                         | Value<br>type | Value   | Exposure time | Species       | Method   |
|---|---------------|---------|---------------|---------------|--|
| 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:                               |

#### Toxicity (Algae):

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

| Hazardous substances CAS-No.                         | Value type | Value      | Exposure time | Species   | Method  |
|--|------------|------------|---------------|---|---|
| 3,3,5 Trimethylcyclohexyl methacrylate<br>7779-31-9  | EC10       | 0,43 mg/l  | 72 h          | Pseudokirchneriella subcapitata                               | 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) |
| 1,4-Naphthalenedione<br>130-15-4                     | NOEC       | 0,07 mg/l  | 72 h          | Pseudokirchneriella subcapitata                               | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| 1,4-Naphthalenedione<br>130-15-4                     | EC50       | 0,42 mg/l  | 72 h          | Pseudokirchneriella subcapitata                               | OECD Guideline 201 (Alga, Growth Inhibition Test) |

#### Toxicity to microorganisms

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

| Hazardous substances CAS-No.     | Value type | Value     | Exposure time | Species   | Method   |
|----------------------------------|------------|-----------|---------------|---|--|
| 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)           |
| 1,4-Naphthalenedione<br>130-15-4 | EC50       | 5,94 mg/l | 3 h           | activated sludge of a predominantly domestic sewage | OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test) |

#### 12.2. Persistence and degradability

| Hazardous substances CAS-No.                         | Result                     | Test type | Degradability | Exposure time | Method  |
|--|----------------------------|-----------|---------------|---------------|---|
| 3,3,5 Trimethylcyclohexyl methacrylate<br>7779-31-9  | not readily biodegradable. | aerobic   | 16,8 %        | 28 d          | OECD Guideline 301 F (Ready Biodegradability: Manometric Respirometry Test) |
| 2,2'-Ethylenedioxydiethyl dimethacrylate<br>109-16-0 | readily biodegradable      | aerobic   | 85 %          | 28 d          | OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test)           |
| Cumene hydroperoxide<br>80-15-9                      | not readily biodegradable. | aerobic   | 3 %           | 28 d          | OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test)           |
| maleic acid<br>110-16-7                              | readily biodegradable      | aerobic   | 97,08 %       | 28 d          | OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test)           |
| 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

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

**12.4. Mobility in soil**

| Hazardous substances<br>CAS-No.                      | LogPow | Temperature | Method   |
|--|--------|-------------|--|
| 3,3,5 Trimethylcyclohexyl methacrylate<br>7779-31-9  | 5,25   | 20 °C       | 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)        |
| 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) |
| Acetic acid, 2-phenylhydrazide<br>114-83-0           | 0,74   |             | not specified  |
| 1,4-Naphthalenedione<br>130-15-4                     | 1,71   |             | not specified  |

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

| Hazardous substances<br>CAS-No.                      | PBT / vPvB  |
|--|---|
| 3,3,5 Trimethylcyclohexyl methacrylate<br>7779-31-9  | 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. |
| 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:

Dispose of in accordance with local and national regulations.

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

Disposal of uncleaned packages:

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

Disposal must be made according to official regulations.

Waste code

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

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



## SECTION 14: Transport information

### 14.1. UN number or ID number

|      |      |
|------|------|
| ADR  | 3082 |
| RID  | 3082 |
| ADN  | 3082 |
| IMDG | 3082 |
| IATA | 3082 |

### 14.2. UN proper shipping name

|      |  |
|------|--|
| ADR  | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (3,3,5-Trimethylcyclohexyl methacrylate) |
| RID  | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (3,3,5-Trimethylcyclohexyl methacrylate) |
| ADN  | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (3,3,5-Trimethylcyclohexyl methacrylate) |
| IMDG | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (3,3,5-Trimethylcyclohexyl methacrylate) |
| IATA | Environmentally hazardous substance, liquid, n.o.s. (3,3,5-Trimethylcyclohexyl methacrylate) |

### 14.3. Transport hazard class(es)

|      |   |
|------|---|
| ADR  | 9 |
| RID  | 9 |
| ADN  | 9 |
| IMDG | 9 |
| IATA | 9 |

### 14.4. Packing group

|      |     |
|------|-----|
| ADR  | III |
| RID  | III |
| ADN  | III |
| IMDG | III |
| IATA | III |

### 14.5. Environmental hazards

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

### 14.6. Special precautions for user

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

The transport classifications in this section apply generally to packed and bulk goods alike. For containers with a net volume of no more than 5 L for liquid substances or a net mass of no more than 5 kg for solid substances per individual or inner package, the exemptions SP 375 (ADR), A197 (IATA), 2.10.2.7 (IMDG) may be applied, which can result in a deviation from the transport classification for packed goods.

### 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<br>(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.  
 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.

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