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

1.1. Product identifier
   LOCTITE 243

Contains:
   Tetramethylene dimethacrylate
   Maleic acid
   Acetic acid, 2-phenylhydrazide

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
   Wood Lane End
   HP2 4RQ   Hemel Hempstead
   Great Britain
   Phone:  +44 1442 278000
   Fax-no.:  +44 1442 278071
   ua-productsafety.uk@henkel.com

1.4. Emergency telephone number
   24 Hours Emergency Tel: +44 (0)1442 278497

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (CLP):
   Skin sensitizer
   H317  May cause an allergic skin reaction.
   Chronic hazards to the aquatic environment
   H411  Toxic to aquatic life with long lasting effects.

Category 1

Category 2

2.2. Label elements

Label elements (CLP):

Hazard pictogram:
Signal word: Warning

Hazard statement: H317 May cause an allergic skin reaction.
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 waste and residues in accordance with local authority requirements***

Precautionary statement: P273 Avoid release to the environment.
Prevention P280 Wear protective gloves.

Precautionary statement: P333+P313 If skin irritation or rash occurs: 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.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

General chemical description:
Anaerobic adhesive
### Declaration of the ingredients according to CLP (EC) No 1272/2008:

<table>
<thead>
<tr>
<th>Hazardous components</th>
<th>CAS-No.</th>
<th>EC Number</th>
<th>content</th>
<th>Classification</th>
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<tbody>
<tr>
<td>Tetramethylenedimethacrylate</td>
<td>2082-81-7</td>
<td>218-218-1 01-2119967415-30</td>
<td>25- 50 %</td>
<td>Skin Sens. 1B H317</td>
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<tr>
<td>2,4,6-Triallyloxy-s-triazine</td>
<td>101-37-1</td>
<td>202-936-7 01-2119489756-17</td>
<td>5- &lt; 10 %</td>
<td>Acute Tox. 4; Oral H302 Aquatic Chronic 2 H411</td>
</tr>
<tr>
<td>2-[[2,2-bis[[1-oxoallyloxy]methyl][butoxy]methyl]-2-ethyl-1,3-propanediyl diacrylate</td>
<td>94108-97-1</td>
<td>302-434-9 01-2119977121-41</td>
<td>1- &lt; 5 %</td>
<td>Eye Irrit. 2 H319 Aquatic Chronic 2 H411</td>
</tr>
<tr>
<td>Fatty acid amide</td>
<td>126098-16-6</td>
<td>484-050-2 01-0000020228-74</td>
<td>25- &lt; 2,5 %</td>
<td>Aquatic Acute 1 H400 Aquatic Chronic 1 H410 M factor (Acute Aquat Tox): 10 M factor (Chronic Aquat Tox): 10</td>
</tr>
<tr>
<td>Cumene hydroperoxide</td>
<td>80-15-9</td>
<td>201-254-7</td>
<td>0,1- &lt; 1 %</td>
<td>Acute Tox. 4; Dermal H312 STOT RE 2 H373 Acute Tox. 4; Oral H302 Org. Perox. E H242 Acute Tox. 3; Inhalation H331 Aquatic Chronic 2 H411 Skin Corr. 1B H314</td>
</tr>
<tr>
<td>Acetic acid, 2-phenylhydrazide</td>
<td>114-83-0</td>
<td>204-055-3</td>
<td>0,1- &lt; 1 %</td>
<td>Acute Tox. 3; Oral H301 Skin Irrit. 2 H315 Skin Sens. 1 H317 Eye Irrit. 2 H319 STOT SE 3; Inhalation H335 Carc. 2 H351</td>
</tr>
<tr>
<td>Maleic acid</td>
<td>110-16-7</td>
<td>203-742-5 01-2119488705-25</td>
<td>0,1- &lt; 1 %</td>
<td>Acute Tox. 4; Oral H302 Acute Tox. 4; Dermal H312 Skin Irrit. 2 H315 Skin Sens. 1 H317 Eye Irrit. 2 H319 STOT SE 3 H335</td>
</tr>
<tr>
<td>1,4-Naphthalenedione</td>
<td>130-15-4</td>
<td>204-977-6</td>
<td>0,01- &lt; 0,1 %</td>
<td>Acute Tox. 3; Oral H301 Skin Irrit. 2; Dermal H315 Skin Sens. 1; Dermal H317 Eye Irrit. 2 H319 Acute Tox. 1; Inhalation H330 STOT SE 3; Inhalation H335 Aquatic Acute 1 H400 Aquatic Chronic 1 H410 M factor (Acute Aquat Tox): 10 M factor (Chronic Aquat Tox): 10</td>
</tr>
</tbody>
</table>
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:** Rash, Urticaria.

Prolonged or repeated contact may cause eye irritation.

Prolonged or repeated contact may cause skin irritation.

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

See section: Description of first aid measures

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

**Suitable extinguishing media:**
Carbon dioxide, foam, powder
Fine water spray

**Extinguishing media which must not be used for safety reasons:**
None known

#### 5.2. Special hazards arising from the substance or mixture

In the event of a fire, carbon monoxide (CO), carbon dioxide (CO2) and nitrogen oxides (NOx) can be released.

#### 5.3. Advice for firefighters

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

**Additional information:**
In case of fire, keep containers cool with water spray.

### SECTION 6: Accidental release measures

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

Avoid contact with skin and eyes.
Ensure adequate ventilation.
Wear protective equipment.

#### 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.

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.
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

<table>
<thead>
<tr>
<th>Ingredient [Regulated substance]</th>
<th>ppm</th>
<th>mg/m³</th>
<th>Value type</th>
<th>Short term exposure limit category / Remarks</th>
<th>Regulatory list</th>
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</thead>
<tbody>
<tr>
<td>Silane, dichlorodimethyl-, reaction products with silica 68611-44-9 [SILICA, AMORPHOUS, RESPIRABLE DUST]</td>
<td>2.4</td>
<td>Time Weighted Average (TWA):</td>
<td></td>
<td>EH40 WEL</td>
<td></td>
</tr>
<tr>
<td>Silane, dichlorodimethyl-, reaction products with silica 68611-44-9 [SILICA, AMORPHOUS, INHALABLE DUST]</td>
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<td>Time Weighted Average (TWA):</td>
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<td>EH40 WEL</td>
<td></td>
</tr>
<tr>
<td>Ethene, homopolymer 9002-88-4 [DUST, INHALABLE DUST]</td>
<td>10</td>
<td>Time Weighted Average (TWA):</td>
<td></td>
<td>EH40 WEL</td>
<td></td>
</tr>
<tr>
<td>Ethene, homopolymer 9002-88-4 [DUST, RESPIRABLE DUST]</td>
<td>4</td>
<td>Time Weighted Average (TWA):</td>
<td></td>
<td>EH40 WEL</td>
<td></td>
</tr>
<tr>
<td>Propane-1,2-diol 57-55-6 [PROPANE-1,2-DIOL, PARTICULATES]</td>
<td>10</td>
<td>Time Weighted Average (TWA):</td>
<td></td>
<td>EH40 WEL</td>
<td></td>
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<tr>
<td>Propane-1,2-diol 57-55-6 [PROPANE-1,2-DIOL, TOTAL VAPOUR AND PARTICULATES]</td>
<td>150 474</td>
<td>Time Weighted Average (TWA):</td>
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<td>EH40 WEL</td>
<td></td>
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**Occupational Exposure Limits**

Valid for

- Ireland

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<th>Ingredient [Regulated substance]</th>
<th>ppm</th>
<th>mg/m³</th>
<th>Value type</th>
<th>Short term exposure limit category / Remarks</th>
<th>Regulatory list</th>
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<tbody>
<tr>
<td>Silane, dichlorodimethyl-, reaction products with silica 68611-44-9 [SILICA, AMORPHOUS, TOTAL INHALABLE DUST]</td>
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<td>Time Weighted Average (TWA):</td>
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<td>IR_OEL</td>
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<tr>
<td>Silane, dichlorodimethyl-, reaction products with silica 68611-44-9 [SILICA, AMORPHOUS, RESPIRABLE DUST]</td>
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<td>Time Weighted Average (TWA):</td>
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<td>IR_OEL</td>
<td></td>
</tr>
<tr>
<td>Ethene, homopolymer 9002-88-4 [DUSTS, NON-SPECIFIC, RESPIRABLE]</td>
<td>4</td>
<td>Time Weighted Average (TWA):</td>
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<td>IR_OEL</td>
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<tr>
<td>Ethene, homopolymer 9002-88-4 [DUSTS, NON-SPECIFIC, TOTAL INHALABLE]</td>
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<td>Time Weighted Average (TWA):</td>
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<td>IR_OEL</td>
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</tr>
<tr>
<td>Propane-1,2-diol 57-55-6 [PROPANE-1,2-DIOL, PARTICULATES]</td>
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<td>Time Weighted Average (TWA):</td>
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<td>IR_OEL</td>
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<td>Propane-1,2-diol 57-55-6 [PROPANE-1,2-DIOL, TOTAL (VAPOUR AND PARTICULATES)]</td>
<td>150 470</td>
<td>Time Weighted Average (TWA):</td>
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<td>IR_OEL</td>
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</table>
### Predicted No-Effect Concentration (PNEC):

<table>
<thead>
<tr>
<th>Name on list</th>
<th>Environmental Compartment</th>
<th>Exposure period</th>
<th>Value</th>
<th>Remarks</th>
</tr>
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<tbody>
<tr>
<td>2,4,6-Triallyloxy-1,3,5-triazine 101-37-1</td>
<td>water (freshwater)</td>
<td>0.00705 mg/l</td>
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<tr>
<td>2,4,6-Triallyloxy-1,3,5-triazine 101-37-1</td>
<td>water (marine water)</td>
<td>0.0007 mg/l</td>
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<tr>
<td>2,4,6-Triallyloxy-1,3,5-triazine 101-37-1</td>
<td>water (intermittent releases)</td>
<td>0.0705 mg/l</td>
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<tr>
<td>2,4,6-Triallyloxy-1,3,5-triazine 101-37-1</td>
<td>sediment (freshwater)</td>
<td>0.1729 mg/kg</td>
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<tr>
<td>2,4,6-Triallyloxy-1,3,5-triazine 101-37-1</td>
<td>sediment (marine water)</td>
<td>0.01729 mg/kg</td>
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<tr>
<td>2,4,6-Triallyloxy-1,3,5-triazine 101-37-1</td>
<td>soil</td>
<td>0.057 mg/kg</td>
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<tr>
<td>2,4,6-Triallyloxy-1,3,5-triazine 101-37-1</td>
<td>sewage treatment plant (STP)</td>
<td>10 mg/l</td>
<td></td>
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<tr>
<td>2,4,6-Triallyloxy-1,3,5-triazine 101-37-1</td>
<td>oral</td>
<td>0.119 mg/kg</td>
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<tr>
<td>2-[[2,2-Bis[[1-oxallyl]oxy]methyl]butoxy]methyl]-2-ethyl-1,3-propanediyl diacrylate 94108-97-1</td>
<td>water (freshwater)</td>
<td>0.0012 mg/l</td>
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<tr>
<td>2-[[2,2-Bis[[1-oxallyl]oxy]methyl]butoxy]methyl]-2-ethyl-1,3-propanediyl diacrylate 94108-97-1</td>
<td>soil</td>
<td>0.096 mg/kg</td>
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<tr>
<td>2-[[2,2-Bis[[1-oxallyl]oxy]methyl]butoxy]methyl]-2-ethyl-1,3-propanediyl diacrylate 94108-97-1</td>
<td>water (marine water)</td>
<td>0.048 mg/kg</td>
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<tr>
<td>2-[[2,2-Bis[[1-oxallyl]oxy]methyl]butoxy]methyl]-2-ethyl-1,3-propanediyl diacrylate 94108-97-1</td>
<td>water (freshwater)</td>
<td>0.484 mg/kg</td>
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<td>2-[[2,2-Bis[[1-oxallyl]oxy]methyl]butoxy]methyl]-2-ethyl-1,3-propanediyl diacrylate 94108-97-1</td>
<td>sewage treatment plant (STP)</td>
<td>100 mg/l</td>
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<tr>
<td>2-[[2,2-Bis[[1-oxallyl]oxy]methyl]butoxy]methyl]-2-ethyl-1,3-propanediyl diacrylate 94108-97-1</td>
<td>water (intermittent releases)</td>
<td>0.012 mg/l</td>
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<tr>
<td>2-[[2,2-Bis[[1-oxallyl]oxy]methyl]butoxy]methyl]-2-ethyl-1,3-propanediyl diacrylate 94108-97-1</td>
<td>water (marine water)</td>
<td>0.00012 mg/l</td>
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<tr>
<td>Fatty acid amide 126098-16-6</td>
<td>water (freshwater)</td>
<td>0.000146 mg/l</td>
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<tr>
<td>Fatty acid amide 126098-16-6</td>
<td>water (marine water)</td>
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<tr>
<td>Fatty acid amide 126098-16-6</td>
<td>water (intermittent releases)</td>
<td>0.00025 mg/l</td>
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<tr>
<td>Fatty acid amide 126098-16-6</td>
<td>sewage treatment plant (STP)</td>
<td>10 mg/l</td>
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<tr>
<td>Fatty acid amide 126098-16-6</td>
<td>sediment (marine water)</td>
<td>5.554 mg/kg</td>
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<tr>
<td>Fatty acid amide 126098-16-6</td>
<td>water (freshwater)</td>
<td>0.0031 mg/l</td>
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<tr>
<td>Fatty acid amide 126098-16-6</td>
<td>soil</td>
<td>66.576 mg/kg</td>
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<td>Fatty acid amide 126098-16-6</td>
<td>sewage treatment plant (STP)</td>
<td>10 mg/l</td>
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<tr>
<td>alpha-alpha-Dimethylbenzyl hydroperoxide 80-15-9</td>
<td>water (freshwater)</td>
<td>0.0031 mg/l</td>
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<td>alpha-alpha-Dimethylbenzyl hydroperoxide 80-15-9</td>
<td>water (marine water)</td>
<td>0.00031 mg/l</td>
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<tr>
<td>alpha-alpha-Dimethylbenzyl hydroperoxide</td>
<td>water (intermittent releases)</td>
<td>0.031 mg/l</td>
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<tr>
<td>Compound</td>
<td>Source</td>
<td>Value</td>
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<tr>
<td>--------------------------------</td>
<td>-----------------------------</td>
<td>-------------</td>
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<tr>
<td>alpha.,alpha.-Dimethylbenzyl hydroperoxide 80-15-9</td>
<td>Sewage treatment plant</td>
<td>0.35 mg/l</td>
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<td>0.023 mg/kg</td>
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<td>sediment (marine water)</td>
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<tr>
<td>alpha.,alpha.-Dimethylbenzyl hydroperoxide 80-15-9</td>
<td>soil</td>
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<tr>
<td>Maleic acid 110-16-7</td>
<td>aqua (freshwater)</td>
<td>0.1 mg/l</td>
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<td>Maleic acid 110-16-7</td>
<td>aqua (intermittent releases)</td>
<td>0.4281 mg/l</td>
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<td>sediment (freshwater)</td>
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<td>sewage treatment plant (STP)</td>
<td>44.6 mg/l</td>
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<td>aqua (marine water)</td>
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<td>sediment (marine water)</td>
<td>0.0334 mg/kg</td>
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</table>
**Derived No-Effect Level (DNEL):**

<table>
<thead>
<tr>
<th>Name on list</th>
<th>Application Area</th>
<th>Route of Exposure</th>
<th>Health Effect</th>
<th>Exposure Time</th>
<th>Value</th>
<th>Remarks</th>
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</thead>
<tbody>
<tr>
<td>Tetramethylene dimethacrylate 2082-81-7</td>
<td>Workers</td>
<td>dermal</td>
<td>Long term exposure - systemic effects</td>
<td></td>
<td>4.2 mg/kg</td>
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<tr>
<td>Tetramethylene dimethacrylate 2082-81-7</td>
<td>Workers</td>
<td>inhalation</td>
<td>Long term exposure - systemic effects</td>
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<td>14.5 mg/m³</td>
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<td>2,4,6-Triallyloxy-1,3,5-triazine 101-37-1</td>
<td>Workers</td>
<td>inhalation</td>
<td>Acute/short term exposure - systemic effects</td>
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<td>134.4 mg/m³</td>
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<td>2,4,6-Triallyloxy-1,3,5-triazine 101-37-1</td>
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<td>dermal</td>
<td>Long term exposure - systemic effects</td>
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<td>1.5 mg/kg</td>
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<tr>
<td>2,4,6-Triallyloxy-1,3,5-triazine 101-37-1</td>
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<td>2.12 mg/m³</td>
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<tr>
<td>2-[2,2-Bis[[1-oxoallyloxy][methyl]butoxy][methyl]-2-ethyl-1,3-propanediyl diacrylate 94108-97-1</td>
<td>Workers</td>
<td>Inhilation</td>
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<td>5.88 mg/m³</td>
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<td>1.67 mg/kg</td>
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<tr>
<td>Fatty acid amide 126098-16-6</td>
<td>General population</td>
<td>oral</td>
<td>Long term exposure - systemic effects</td>
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<td>8.3 mg/kg</td>
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<tr>
<td>Fatty acid amide 126098-16-6</td>
<td>General population</td>
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<td>Long term exposure - systemic effects</td>
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<td>8.3 mg/kg</td>
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<tr>
<td>Fatty acid amide 126098-16-6</td>
<td>Workers</td>
<td>dermal</td>
<td>Long term exposure - systemic effects</td>
<td></td>
<td>14 mg/kg</td>
<td></td>
</tr>
<tr>
<td>Fatty acid amide 126098-16-6</td>
<td>General population</td>
<td>inhalation</td>
<td>Long term exposure - systemic effects</td>
<td></td>
<td>2.9 mg/m³</td>
<td></td>
</tr>
<tr>
<td>Fatty acid amide 126098-16-6</td>
<td>Workers</td>
<td>inhalation</td>
<td>Long term exposure - systemic effects</td>
<td></td>
<td>9.8 mg/m³</td>
<td></td>
</tr>
<tr>
<td>.alpha..alpha.-Dimethylbenzyl hydroperoxide 80-15-9</td>
<td>Workers</td>
<td>inhalation</td>
<td>Long term exposure - systemic effects</td>
<td></td>
<td>6 mg/m³</td>
<td></td>
</tr>
<tr>
<td>Maleic acid 110-16-7</td>
<td>Workers</td>
<td>dermal</td>
<td>Acute/short term exposure - local effects</td>
<td></td>
<td>0.55 mg/cm²</td>
<td></td>
</tr>
<tr>
<td>Maleic acid 110-16-7</td>
<td>Workers</td>
<td>dermal</td>
<td>Long term exposure - local effects</td>
<td></td>
<td>0.04 mg/cm²</td>
<td></td>
</tr>
<tr>
<td>Maleic acid 110-16-7</td>
<td>Workers</td>
<td>dermal</td>
<td>Acute/short term exposure - systemic effects</td>
<td></td>
<td>58 mg/kg</td>
<td></td>
</tr>
<tr>
<td>Maleic acid 110-16-7</td>
<td>Workers</td>
<td>dermal</td>
<td>Long term exposure - systemic effects</td>
<td></td>
<td>3.3 mg/kg</td>
<td></td>
</tr>
<tr>
<td>Maleic acid 110-16-7</td>
<td>Workers</td>
<td>inhalation</td>
<td>Acute/short term exposure - local effects</td>
<td></td>
<td>3 mg/m³</td>
<td></td>
</tr>
<tr>
<td>Maleic acid 110-16-7</td>
<td>Workers</td>
<td>inhalation</td>
<td>Long term exposure - systemic effects</td>
<td></td>
<td>3 mg/m³</td>
<td></td>
</tr>
<tr>
<td>Maleic acid 110-16-7</td>
<td>Workers</td>
<td>inhalation</td>
<td>Long term exposure - systemic effects</td>
<td></td>
<td>3 mg/m³</td>
<td></td>
</tr>
<tr>
<td>Maleic acid 110-16-7</td>
<td>Workers</td>
<td>inhalation</td>
<td>Acute/short term exposure - systemic effects</td>
<td></td>
<td>3 mg/m³</td>
<td></td>
</tr>
</tbody>
</table>
**Biological Exposure Indices:**
None

**8.2. Exposure controls:**

Engineering controls:
Ensure good ventilation/extraction.

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

Hand protection:
Chemical-resistant protective gloves (EN 374).
Suitable materials for short-term contact or splashes (recommended: at least protection index 2, corresponding to > 30 minutes permeation time as per EN 374):
nitrile rubber (NBR; >= 0.4 mm thickness)
Suitable materials for longer, direct contact (recommended: protection index 6, corresponding to > 480 minutes permeation time as per EN 374):
nitrile rubber (NBR; >= 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**
- **Appearance**: liquid
- **Odor**: characteristic
- **Odour threshold**: No data available / Not applicable
- **pH**: No data available / Not applicable
- **Melting point**: No data available / Not applicable
- **Solidification temperature**: No data available / Not applicable
- **Initial boiling point**: > 70 °C (> 158 °F)
- **Flash point**: > 110 °C (> 230 °F)
- **Evaporation rate**: No data available / Not applicable
- **Flammability**: No data available / Not applicable
- **Explosive limits**: No data available / Not applicable
- **Vapour pressure (25 °C (77 °F))**: 1.7 mbar
- **Vapour pressure (50 °C (122 °F))**: < 300 mbar
- **Relative vapour density**: No data available / Not applicable
Density 1.15 - 1.20 g/cm³

Solubility
- Insoluble
- Soluble

Solubility (qualitative)
- Water: No data available / Not applicable
- Acetone: Soluble

Partition coefficient: n-octanol/water: No data available / Not applicable

SECTION 10: Stability and reactivity

10.1. Reactivity
Peroxides.

10.2. Chemical stability
Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions
See section reactivity

10.4. Conditions to avoid
No decomposition if used according to specifications.

10.5. Incompatible materials
See section reactivity.

10.6. Hazardous decomposition products
- carbon oxides.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

General toxicological information:
The mixture is classified based on the available hazard information for the ingredients as defined in the classification criteria for mixtures for each hazard class or differentiation in Annex I to Regulation (EC) No 1272/2008. Relevant available health/ecological information for the substances listed under Section 3 is provided in the following.

Oral toxicity:
May cause irritation to the digestive tract.

Skin irritation:
Prolonged or repeated contact may cause skin irritation.

Eye irritation:
Prolonged or repeated contact may cause eye irritation.

Sensitizing:
May cause an allergic skin reaction.
### Acute oral toxicity:

<table>
<thead>
<tr>
<th>Hazardous components</th>
<th>Value type</th>
<th>Value</th>
<th>Route of application</th>
<th>Exposure time</th>
<th>Species</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tetramethylene dimethacrylate 2082-81-7</td>
<td>LD50</td>
<td>10.120 mg/kg</td>
<td>oral</td>
<td>rat</td>
<td>not specified</td>
<td></td>
</tr>
<tr>
<td>2,4,6-Triallyloxy-s-triazine 101-37-1</td>
<td>LD50</td>
<td>753 mg/kg</td>
<td>oral</td>
<td>rat</td>
<td>OECD Guideline 401 (Acute Oral Toxicity)</td>
<td></td>
</tr>
<tr>
<td>2-[(2,2-bis[(1-oxoallyloxy)methyl]butoxy)methyl]-2-ethyl-1,3-propanediyl diacrylate 94108-97-1</td>
<td>LD50</td>
<td>&gt; 5.000 mg/kg</td>
<td>oral</td>
<td>rat</td>
<td>OECD Guideline 401 (Acute Oral Toxicity)</td>
<td></td>
</tr>
<tr>
<td>Fatty acid amide 126098-16-6</td>
<td>LD50</td>
<td>2.000 mg/kg</td>
<td>oral</td>
<td>rat</td>
<td>not specified</td>
<td></td>
</tr>
<tr>
<td>Acetic acid, 2-phenylhydrazone 80-15-9</td>
<td>LD50</td>
<td>550 mg/kg</td>
<td>oral</td>
<td>rat</td>
<td>not specified</td>
<td></td>
</tr>
<tr>
<td>Maleic acid 110-16-7</td>
<td>LD50</td>
<td>270 mg/kg</td>
<td>oral</td>
<td>rat</td>
<td>not specified</td>
<td></td>
</tr>
<tr>
<td>1,4-Naphthalenedione 130-15-4</td>
<td>LD50</td>
<td>708 mg/kg</td>
<td>oral</td>
<td>rat</td>
<td>not specified</td>
<td></td>
</tr>
</tbody>
</table>

### Acute dermal toxicity:

<table>
<thead>
<tr>
<th>Hazardous components</th>
<th>Value type</th>
<th>Value</th>
<th>Route of application</th>
<th>Exposure time</th>
<th>Species</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>2,4,6-Triallyloxy-s-triazine 101-37-1</td>
<td>LD50</td>
<td>&gt; 2.000 mg/kg</td>
<td>dermal</td>
<td>rabbit</td>
<td>OECD Guideline 402 (Acute Dermal Toxicity)</td>
<td></td>
</tr>
<tr>
<td>2-[(2,2-bis[(1-oxoallyloxy)methyl]butoxy)methyl]-2-ethyl-1,3-propanediyl diacrylate 94108-97-1</td>
<td>LD50</td>
<td>&gt; 2.000 mg/kg</td>
<td>dermal</td>
<td>rat</td>
<td>not specified</td>
<td></td>
</tr>
<tr>
<td>Fatty acid amide 126098-16-6</td>
<td>LD50</td>
<td>2.000 mg/kg</td>
<td>dermal</td>
<td>rat</td>
<td>not specified</td>
<td></td>
</tr>
<tr>
<td>Acetic acid, 2-phenylhydrazone 80-15-9</td>
<td>LD50</td>
<td>550 mg/kg</td>
<td>dermal</td>
<td>rat</td>
<td>not specified</td>
<td></td>
</tr>
<tr>
<td>Maleic acid 110-16-7</td>
<td>LD50</td>
<td>708 mg/kg</td>
<td>dermal</td>
<td>rat</td>
<td>not specified</td>
<td></td>
</tr>
<tr>
<td>1,4-Naphthalenedione 130-15-4</td>
<td>LD50</td>
<td>190 mg/kg</td>
<td>dermal</td>
<td>rat</td>
<td>not specified</td>
<td></td>
</tr>
</tbody>
</table>

### Skin corrosion/irritation:

<table>
<thead>
<tr>
<th>Hazardous components</th>
<th>Result</th>
<th>Exposure time</th>
<th>Species</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cumene hydroperoxide 80-15-9</td>
<td>corrosive</td>
<td></td>
<td>rabbit</td>
<td>Draize Test</td>
</tr>
<tr>
<td>Maleic acid 110-16-7</td>
<td>irritating</td>
<td>24 h</td>
<td>human</td>
<td>Patch Test</td>
</tr>
</tbody>
</table>

### Serious eye damage/irritation:

<table>
<thead>
<tr>
<th>Hazardous components</th>
<th>Result</th>
<th>Exposure time</th>
<th>Species</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-[(2,2-bis[(1-oxoallyloxy)methyl]butoxy)methyl]-2-ethyl-1,3-propanediyl diacrylate 94108-97-1</td>
<td>Category II</td>
<td></td>
<td>rabbit</td>
<td>EU Method B.5 (Acute Toxicity: Eye Irritation / Corrosion)</td>
</tr>
<tr>
<td>Maleic acid 110-16-7</td>
<td>highly irritating</td>
<td></td>
<td>rabbit</td>
<td>OECD Guideline 405 (Acute Eye Irritation / Corrosion)</td>
</tr>
</tbody>
</table>
Respiratory or skin sensitization:

<table>
<thead>
<tr>
<th>Hazardous components</th>
<th>Result</th>
<th>Test type</th>
<th>Species</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tetramethylene dimethacrylate 2082-81-7</td>
<td>sensitising</td>
<td>Mouse local lymph node assay (LLNA)</td>
<td>mouse</td>
<td>OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)</td>
</tr>
<tr>
<td>Maleic acid 110-16-7</td>
<td>sensitising</td>
<td>Mouse local lymph node assay (LLNA)</td>
<td>mouse</td>
<td>OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)</td>
</tr>
<tr>
<td>Maleic acid 110-16-7</td>
<td>sensitising</td>
<td>Mouse local lymph node assay (LLNA)</td>
<td>guinea pig</td>
<td>OECD Guideline 406 (Skin Sensitisation)</td>
</tr>
</tbody>
</table>

Germ cell mutagenicity:

<table>
<thead>
<tr>
<th>Hazardous components</th>
<th>Result</th>
<th>Type of study / Route of administration</th>
<th>Metabolic activation / Exposure time</th>
<th>Species</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tetramethylene dimethacrylate 2082-81-7</td>
<td>negative</td>
<td>in vitro mammalian chromosome aberration test</td>
<td>with and without</td>
<td>OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)</td>
<td></td>
</tr>
<tr>
<td>Maleic acid 110-16-7</td>
<td>negative</td>
<td>bacterial reverse mutation assay (e.g. Ames test)</td>
<td>with and without</td>
<td>OECD Guideline 471 (Bacterial Reverse Mutation Assay)</td>
<td></td>
</tr>
<tr>
<td>Maleic acid 110-16-7</td>
<td>positive</td>
<td>in vitro mammalian chromosome aberration test</td>
<td>with and without</td>
<td>OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)</td>
<td></td>
</tr>
<tr>
<td>Cumene hydroperoxide 80-15-9</td>
<td>positive</td>
<td>bacterial reverse mutation assay (e.g. Ames test)</td>
<td>without</td>
<td>OECD Guideline 471 (Bacterial Reverse Mutation Assay)</td>
<td></td>
</tr>
<tr>
<td>Cumene hydroperoxide 80-15-9</td>
<td>negative</td>
<td>dermal</td>
<td>mouse</td>
<td>not specified</td>
<td></td>
</tr>
<tr>
<td>Maleic acid 110-16-7</td>
<td>negative</td>
<td>bacterial reverse mutation assay (e.g. Ames test)</td>
<td>no data</td>
<td>Ames Test</td>
<td></td>
</tr>
<tr>
<td>Maleic acid 110-16-7</td>
<td>negative</td>
<td>mammalian cell gene mutation assay</td>
<td>with and without</td>
<td>OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)</td>
<td></td>
</tr>
</tbody>
</table>

Carcinogenicity:

<table>
<thead>
<tr>
<th>Hazardous components</th>
<th>Result</th>
<th>Species</th>
<th>Sex</th>
<th>Exposure time/Frequency of treatment</th>
<th>Route of application</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maleic acid 110-16-7</td>
<td>not carcinogenic</td>
<td>rat</td>
<td>male/female</td>
<td>2 y daily</td>
<td>oral: feed</td>
<td>OECD Guideline 451 (Carcinogenicity Studies)</td>
</tr>
</tbody>
</table>

Reproductive toxicity:

<table>
<thead>
<tr>
<th>Hazardous substances</th>
<th>Result / Classification</th>
<th>Species</th>
<th>Exposure time</th>
<th>Species</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maleic acid 110-16-7</td>
<td>NOAEL F1 = 150 mg/kg NOAEL F2 = 55 mg/kg</td>
<td>Two generation study oral: gavage</td>
<td>min. 80 d</td>
<td>rat</td>
<td>OECD Guideline 416 (Two-Generation Reproduction Toxicity Study)</td>
</tr>
</tbody>
</table>

Repeated dose toxicity:

<table>
<thead>
<tr>
<th>Hazardous components</th>
<th>Result</th>
<th>Route of application</th>
<th>Exposure time / Frequency of treatment</th>
<th>Species</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cumene hydroperoxide 80-15-9</td>
<td></td>
<td>inhalation: aerosol</td>
<td>6 h/d5 d/w</td>
<td>rat</td>
<td>not specified</td>
</tr>
<tr>
<td>Maleic acid 110-16-7</td>
<td>NOAEL =&gt;= 40 mg/kg</td>
<td>oral: feed</td>
<td>90 d/daily</td>
<td>rat</td>
<td>OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)</td>
</tr>
</tbody>
</table>
SECTION 12: Ecological information

**General ecological information:**
The mixture is classified based on the available hazard information for the ingredients as defined in the classification criteria for mixtures for each hazard class or differentiation in Annex I to Regulation (EC) No 1272/2008. Relevant available health/ecological information for the substances listed under Section 3 is provided in the following.

12.1. Toxicity

**Ecotoxicity:**
Do not empty into drains / surface water / ground water.
Toxic to aquatic life with long lasting effects.
<table>
<thead>
<tr>
<th>Hazardous components CAS-No.</th>
<th>Value type</th>
<th>Value</th>
<th>Acute Toxicity Study</th>
<th>Exposure time</th>
<th>Species</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tetramethylene dimethacrylate 2082-81-7</td>
<td>LC50</td>
<td>32,5 mg/l</td>
<td>Fish</td>
<td>48 h</td>
<td></td>
<td>DIN 38412-15</td>
</tr>
<tr>
<td>Tetramethylene dimethacrylate 2082-81-7</td>
<td>EC50</td>
<td>9,79 mg/l</td>
<td>Algae</td>
<td>72 h</td>
<td>Desmodesmus subspicatus</td>
<td>OECD Guideline 201 (Alga, Growth Inhibition Test)</td>
</tr>
<tr>
<td>Tetramethylene dimethacrylate 2082-81-7</td>
<td>NOEC</td>
<td>2,11 mg/l</td>
<td>Algae</td>
<td>72 h</td>
<td>Desmodesmus subspicatus</td>
<td>OECD Guideline 201 (Alga, Growth Inhibition Test)</td>
</tr>
<tr>
<td>Tetramethylene dimethacrylate 2082-81-7</td>
<td>NOEC</td>
<td>20 mg/l</td>
<td>Bacteria</td>
<td>28 d</td>
<td>activated sludge, domestic</td>
<td>not specified</td>
</tr>
<tr>
<td>2,4,6-Triallyloxy-s-triazine 101-37-1</td>
<td>NOEC</td>
<td>5,09 mg/l</td>
<td>chronic Daphnia magna</td>
<td>21 d</td>
<td></td>
<td>OECD 211 (Daphnia magna, Reproduction Test)</td>
</tr>
<tr>
<td>2,4,6-Triallyloxy-s-triazine 101-37-1</td>
<td>LC50</td>
<td>4,36 mg/l</td>
<td>Fish</td>
<td>96 h</td>
<td>Oncorhynchus mykiss</td>
<td>OECD Guideline 203 (Fish, Acute Toxicity Test)</td>
</tr>
<tr>
<td>2,4,6-Triallyloxy-s-triazine 101-37-1</td>
<td>EC0</td>
<td>5 mg/l</td>
<td>Bacteria</td>
<td>3 h</td>
<td></td>
<td>OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)</td>
</tr>
<tr>
<td>2-[[2,2-bis[(1-oxoallyloxy)methyl][butoxy]methyl]-2-ethyl-1,3-propanediyl diacrylate 94108-97-1</td>
<td>LC50</td>
<td>1,2 mg/l</td>
<td>Fish</td>
<td>96 h</td>
<td>Cyprinus carpio</td>
<td>OECD Guideline 203 (Fish, Acute Toxicity Test)</td>
</tr>
<tr>
<td>2-[[2,2-bis[(1-oxoallyloxy)methyl][butoxy]methyl]-2-ethyl-1,3-propanediyl diacrylate 94108-97-1</td>
<td>EC50</td>
<td>&gt; 10 mg/l</td>
<td>Daphnia magna</td>
<td>48 h</td>
<td></td>
<td>OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)</td>
</tr>
<tr>
<td>2-[[2,2-bis[(1-oxoallyloxy)methyl][butoxy]methyl]-2-ethyl-1,3-propanediyl diacrylate 94108-97-1</td>
<td>EC50</td>
<td>&gt; 12 mg/l</td>
<td>Algae</td>
<td>72 h</td>
<td>Pseudokirchneriella subcapitata</td>
<td>OECD Guideline 201 (Alga, Growth Inhibition Test)</td>
</tr>
<tr>
<td>NOEC</td>
<td>&lt; 0,35 mg/l</td>
<td>Algae</td>
<td>72 h</td>
<td>Pseudokirchneriella subcapitata</td>
<td>OECD Guideline 201 (Alga, Growth Inhibition Test)</td>
<td></td>
</tr>
<tr>
<td>Fatty acid amide 126098-16-6</td>
<td>EC50</td>
<td>0,025 mg/l</td>
<td>Algae</td>
<td>72 h</td>
<td>not specified</td>
<td>OECD Guideline 201 (Alga, Growth Inhibition Test)</td>
</tr>
<tr>
<td>Cumene hydroperoxide 80-15-9</td>
<td>NOEC</td>
<td>0,0073 mg/l</td>
<td>Algae</td>
<td>72 h</td>
<td>not specified</td>
<td>OECD Guideline 201 (Alga, Growth Inhibition Test)</td>
</tr>
<tr>
<td>Cumene hydroperoxide 80-15-9</td>
<td>LC50</td>
<td>3,9 mg/l</td>
<td>Fish</td>
<td>96 h</td>
<td>Oncorhynchus mykiss</td>
<td>OECD Guideline 203 (Fish, Acute Toxicity Test)</td>
</tr>
<tr>
<td>Cumene hydroperoxide 80-15-9</td>
<td>EC50</td>
<td>7 mg/l</td>
<td>Daphnia</td>
<td>24 h</td>
<td>Water flea (Daphnia magna)</td>
<td>OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)</td>
</tr>
<tr>
<td>Cumene hydroperoxide 80-15-9</td>
<td>EC50</td>
<td>18 mg/l</td>
<td>Daphnia</td>
<td>48 h</td>
<td>Daphnia magna</td>
<td>OECD Guideline 203 (Fish, Acute Toxicity Test)</td>
</tr>
<tr>
<td>Cumene hydroperoxide 80-15-9</td>
<td>EC50</td>
<td>3,1 mg/l</td>
<td>Algae</td>
<td>72 h</td>
<td>Pseudokirchneriella subcapitata</td>
<td>OECD Guidance 201 (Alga, Growth Inhibition Test)</td>
</tr>
<tr>
<td>Cumene hydroperoxide 80-15-9</td>
<td>EC10</td>
<td>70 mg/l</td>
<td>Bacteria</td>
<td>30 min</td>
<td></td>
<td>not specified</td>
</tr>
<tr>
<td>Maleic acid 110-16-7</td>
<td>LC50</td>
<td>&gt; 245 mg/l</td>
<td>Fish</td>
<td>48 h</td>
<td>Leuciscus idus</td>
<td>DIN 38412-15</td>
</tr>
<tr>
<td>Maleic acid 110-16-7</td>
<td>EC50</td>
<td>42,81 mg/l</td>
<td>Daphnia</td>
<td>48 h</td>
<td>Daphnia magna</td>
<td>OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)</td>
</tr>
<tr>
<td>Maleic acid 110-16-7</td>
<td>EC50</td>
<td>74,35 mg/l</td>
<td>Algae</td>
<td>72 h</td>
<td>Pseudokirchneriella subcapitata</td>
<td>OECD Guideline 201 (Alga, Growth Inhibition Test)</td>
</tr>
</tbody>
</table>
### 12.2. Persistence and degradability

**Persistence and Biodegradability:**
The product is not biodegradable.

<table>
<thead>
<tr>
<th>Hazardous components</th>
<th>CAS-No.</th>
<th>Result</th>
<th>Route of application</th>
<th>Degradability</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,4-Naphthalenedione 130-15-4</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>EC50</td>
<td>0.011 mg/l</td>
<td>Algae</td>
<td>72 h</td>
<td>Dunaliella bioculata</td>
<td></td>
</tr>
</tbody>
</table>

**Inhibition Test)**
OECD Guideline 201 (Alga, Growth Inhibition Test)

<table>
<thead>
<tr>
<th>Hazardous components</th>
<th>CAS-No.</th>
<th>Result</th>
<th>Route of application</th>
<th>Degradability</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tetramethylene dimethacrylate 2082-81-7</td>
<td></td>
<td>readily biodegradable</td>
<td>aerobic</td>
<td>84 %</td>
<td>OECD Guideline 310 (Ready Biodegradability: CO2 in Sealed Vessels (Headspace Test))</td>
</tr>
<tr>
<td>2,4,6-Triallyloxy-s-trazine 101-37-1</td>
<td></td>
<td></td>
<td>aerobic</td>
<td>7 - 9 %</td>
<td>OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test))</td>
</tr>
<tr>
<td>2-[(2,2-bis[[1-oxoally]oxy]methyl]butoxy] methyl]-2-ethyl-1,3-propanediyl diacrylate 94108-97-1</td>
<td></td>
<td></td>
<td>aerobic</td>
<td>4 - 14 %</td>
<td>OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test))</td>
</tr>
<tr>
<td>Fatty acid amide 126098-16-6</td>
<td></td>
<td>not readily biodegradable.</td>
<td>aerobic</td>
<td>7 %</td>
<td>OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test))</td>
</tr>
<tr>
<td>Cumene hydroperoxide 80-15-9</td>
<td></td>
<td></td>
<td>no data</td>
<td>0 %</td>
<td>OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test))</td>
</tr>
<tr>
<td>Maleic acid 110-16-7</td>
<td></td>
<td>readily biodegradable</td>
<td>aerobic</td>
<td>97,08 %</td>
<td>OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test))</td>
</tr>
<tr>
<td>1,4-Naphthalenedione 130-15-4</td>
<td></td>
<td></td>
<td>no data</td>
<td>0 - 60 %</td>
<td>OECD 301 A - F</td>
</tr>
</tbody>
</table>

12.3. Bioaccumulative potential / 12.4. Mobility in soil

**Mobility:**
Cured adhesives are immobile.

**Bioaccumulative potential:**
No data available.

<table>
<thead>
<tr>
<th>Hazardous components</th>
<th>CAS-No.</th>
<th>LogPow</th>
<th>Bioconcentration factor (BCF)</th>
<th>Exposure time</th>
<th>Species</th>
<th>Temperature</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hazardous components</td>
<td>CAS-No.</td>
<td>PBT/vPvB</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>----------------------</td>
<td>---------</td>
<td>--------------------------------------------------------------------------</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tetramethylene dimethacrylate</td>
<td>2082-81-7</td>
<td>Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2,4,6-Triallyloxy-s-triazine</td>
<td>101-37-1</td>
<td>Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2-[[2,2-bis[[1-oxoallyl]oxy][methyl][butoxy][methyl]-2-ethyl-1,3-propanediyl diacrylate] 94108-97-1</td>
<td>Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fatty acid amide 126098-16-6</td>
<td>&gt; 6,5</td>
<td>Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cumene hydroperoxide 80-15-9</td>
<td>2,16</td>
<td>Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Acetic acid, 2-phenylhydrazide 114-83-0</td>
<td>0,74</td>
<td>Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Maleic acid 110-16-7</td>
<td>-1,3</td>
<td>Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1,4-Naphthalenedione 130-15-4</td>
<td>1,71</td>
<td>Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

12.6. 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.
Contribution of this product to waste is very insignificant in comparison to article in which it is used
Collection and delivery to recycling enterprise or other registered elimination institution.

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

<table>
<thead>
<tr>
<th>14.1. UN number</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>ADR</td>
<td>3082</td>
</tr>
<tr>
<td>RID</td>
<td>3082</td>
</tr>
<tr>
<td>ADN</td>
<td>3082</td>
</tr>
<tr>
<td>IMDG</td>
<td>3082</td>
</tr>
<tr>
<td>IATA</td>
<td>3082</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>14.2. UN proper shipping name</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>ADR</td>
<td>ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Fatty acid amide)</td>
</tr>
<tr>
<td>RID</td>
<td>ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Fatty acid amide)</td>
</tr>
<tr>
<td>ADN</td>
<td>ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Fatty acid amide)</td>
</tr>
<tr>
<td>IMDG</td>
<td>ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Fatty acid amide)</td>
</tr>
<tr>
<td>IATA</td>
<td>Environmentally hazardous substance, liquid, n.o.s. (Fatty acid amide)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>14.3. Transport hazard class(es)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>ADR</td>
<td>9</td>
</tr>
<tr>
<td>RID</td>
<td>9</td>
</tr>
<tr>
<td>ADN</td>
<td>9</td>
</tr>
<tr>
<td>IMDG</td>
<td>9</td>
</tr>
<tr>
<td>IATA</td>
<td>9</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>14.4. Packing group</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>ADR</td>
<td>III</td>
</tr>
<tr>
<td>RID</td>
<td>III</td>
</tr>
<tr>
<td>ADN</td>
<td>III</td>
</tr>
<tr>
<td>IMDG</td>
<td>III</td>
</tr>
<tr>
<td>IATA</td>
<td>III</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>14.5. Environmental hazards</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>ADR</td>
<td>not applicable</td>
</tr>
<tr>
<td>RID</td>
<td>not applicable</td>
</tr>
<tr>
<td>ADN</td>
<td>not applicable</td>
</tr>
<tr>
<td>IMDG</td>
<td>Marine pollutant</td>
</tr>
<tr>
<td>IATA</td>
<td>not applicable</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>14.6. Special precautions for user</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>ADR</td>
<td>not applicable</td>
</tr>
</tbody>
</table>
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), 197 (IATA), 969 (IMDG) may be applied, which can result in a deviation from the transport classification for packed goods.

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

not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
VOC content < 3 %
(2010/75/EC)

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.
- H331 Toxic if inhaled.
- H335 May cause respiratory irritation.
- H351 Suspected of causing cancer.
- H373 May cause damage to organs through prolonged or repeated exposure.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.
- H411 Toxic to aquatic life with long lasting effects.

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

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