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



SDS No.: 153472
V013.0
Loctite 620
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Replaces version from: 23.06.2020

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

**1.1. Product identifier**
Loctite 620

**1.2. Relevant identified uses of the substance or mixture and uses advised against**
Intended use:
Threadlocker

**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
Fax-no.: +44 (1442) 278071

ua-productsafety.uk@henkel.com
For Safety Data Sheet updates please visit our website https://mysds.henkel.com/index.html#/appSelection or 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):**

| | |
|---|---|
| Serious eye irritation | Category 2 |
| H319 Causes serious eye irritation. | |
| Skin sensitizer | Category 1 |
| H317 May cause an allergic skin reaction. | |
| Specific target organ toxicity - single exposure | Category 3 |
| H335 May cause respiratory irritation. | |
| Target organ: respiratory tract irritation | |
| Chronic hazards to the aquatic environment | Category 3 |
| H412 Harmful to aquatic life with long lasting effects. | |

**2.2. Label elements**

**Label elements (CLP):**

**Hazard pictogram:**



| | |
|---|---|
| **Contains** | N,N-(m-phenylene)dimaleimide |
| | Hydroxypropyl methacrylate<br>Cumene hydroperoxide<br>maleic acid |
| | Acetic acid, 2-phenylhydrazide |
| **Signal word:** | Warning |
| **Hazard statement:** | H317 May cause an allergic skin reaction.<br>H319 Causes serious eye irritation.<br>H335 May cause respiratory irritation.<br>H412 Harmful to aquatic life with long lasting effects. |
| **Precautionary statement:** | "***" ***For consumer use only: P101 If medical advice is needed, have product container or label at hand. P102 Keep out of reach of children. P501 Dispose of contents/container in accordance with national regulation.*** |
| **Precautionary statement: Prevention** | P261 Avoid breathing vapors.<br>P280 Wear protective gloves.<br>P273 Avoid release to the environment. |
| **Precautionary statement: Response** | P333+P313 If skin irritation or rash occurs: Get medical advice/attention.<br>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.

## SECTION 3: Composition/information on ingredients

**3.2. Mixtures**

**General chemical description:**

Anaerobic Sealant

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

| Hazardous components<br>CAS-No. | EC Number<br>REACH-Reg No. | content | Classification |
|---|---|---|---|
| Ethoxylated bisphenol A dimethacrylate esters<br>41637-38-1 | 609-946-4<br>01-2119980659-17 | 50- 100 % | Aquatic Chronic 4<br>H413 |
| N,N-(m-phenylene)dimaleimide<br>3006-93-7 | 221-112-8<br>01-2120756106-57 | 10- 20 % | Acute Tox. 4; Oral<br>H302<br>Skin Sens. 1A<br>H317<br>Acute Tox. 2; Inhalation<br>H330<br>Aquatic Chronic 2<br>H411 |
| Hydroxypropyl methacrylate<br>27813-02-1 | 248-666-3<br>01-2119490226-37 | 1- < 3 % | Skin Sens. 1<br>H317<br>Eye Irrit. 2<br>H319 |
| Cumene hydroperoxide<br>80-15-9 | 201-254-7<br>01-2119475796-19 | 1- < 2,5 % | STOT RE 2<br>H373<br>Skin Corr. 1B<br>H314<br>Acute Tox. 2; Inhalation<br>H330<br>Aquatic Chronic 2<br>H411<br>Acute Tox. 4; Oral<br>H302<br>Acute Tox. 4; Dermal<br>H312<br>Org. Perox. E<br>H242 |
| N,N-Diethyl-p-toluidine<br>613-48-9 | 210-345-0 | 0,1- < 1 % | Acute Tox. 3; Oral<br>H301<br>Acute Tox. 3; Dermal<br>H311<br>Acute Tox. 3; Inhalation<br>H331<br>STOT RE 2<br>H373<br>Aquatic Chronic 3<br>H412 |
| maleic acid<br>110-16-7 | 203-742-5<br>01-2119488705-25 | 0,1- < 1 % | Acute Tox. 4; Oral<br>H302<br>Eye Irrit. 2<br>H319<br>STOT SE 3<br>H335<br>Skin Irrit. 2<br>H315<br>Skin Sens. 1<br>H317<br>Acute Tox. 4; Dermal<br>H312 |
| N,N-dimethyl-o-toluidine<br>609-72-3 | 210-199-8 | 0,1- < 1 % | Acute Tox. 3; Inhalation<br>H331<br>Acute Tox. 3; Dermal<br>H311<br>Acute Tox. 3; Oral<br>H301<br>STOT RE 2<br>H373<br>Aquatic Chronic 3<br>H412 |
| Acetic acid, 2-phenylhydrazide<br>114-83-0 | 204-055-3 | 0,1- < 1 % | Acute Tox. 3; Oral<br>H301<br>Skin Irrit. 2<br>H315<br>Skin Sens. 1<br>H317<br>Eye Irrit. 2<br>H319<br>STOT SE 3; Inhalation<br>H335<br>Carc. 2<br>H351 |

| | | | |
|---|---|---|---|
| 1,4-Naphthalenedione<br>130-15-4 | 204-977-6 | 0,01- < 0,025 %<br>( 100 ppm- < 250 ppm) | Acute Tox. 3; Oral<br>H301<br>Skin Corr. 1C<br>H314<br>Skin Sens. 1<br>H317<br>Eye Dam. 1<br>H318<br>Acute Tox. 1; Inhalation<br>H330<br>STOT SE 3<br>H335<br>Aquatic Acute 1<br>H400<br>Aquatic Chronic 1<br>H410<br>M factor (Acute Aquat Tox): 10 M factor (Chron Aquat Tox): 10 |

**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.

EYE: Irritation, conjunctivitis.

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

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

See section: Description of first aid measures

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

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

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

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

In the event of a fire, carbon monoxide (CO), carbon dioxide (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.
Wear protective equipment.
Ensure adequate ventilation.
Keep away from sources of ignition.

**6.2. Environmental precautions**
Do not empty into drains / surface water / ground water.

**6.3. Methods and material for containment and cleaning up**
Dispose of contaminated material as waste according to Section 13.
For small spills wipe up with paper towel and place in container for disposal.
For large spills absorb onto inert absorbent material and place in sealed container for disposal.

**6.4. Reference to other sections**
See advice in section 8

## SECTION 7: Handling and storage

**7.1. Precautions for safe handling**
Avoid skin and eye contact.
See advice in section 8

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

**7.2. Conditions for safe storage, including any incompatibilities**
Refer to Technical Data Sheet

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

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

**Occupational Exposure Limits**

Valid for
Great Britain

| Ingredient [Regulated substance] | ppm | mg/m$^3$ | Value type | Short term exposure limit category / Remarks | Regulatory list |
|---|---|---|---|---|---|
| Silicon dioxide<br>112945-52-5<br>[SILICA, AMORPHOUS, INHALABLE DUST] | | 6 | Time Weighted Average (TWA): | | EH40 WEL |
| Silicon dioxide<br>112945-52-5<br>[SILICA, AMORPHOUS, RESPIRABLE DUST] | | 2,4 | Time Weighted Average (TWA): | | EH40 WEL |
| Silicon dioxide<br>112945-52-5<br>[Dust, respirable dust] | | 4 | Time Weighted Average (TWA): | | EH40 WEL |
| Silicon dioxide<br>112945-52-5<br>[Dust, inhalable dust] | | 10 | Time Weighted Average (TWA): | | EH40 WEL |

**Occupational Exposure Limits**

Valid for
Ireland

| Ingredient [Regulated substance] | ppm | mg/m$^3$ | Value type | Short term exposure limit category / Remarks | Regulatory list |
|---|---|---|---|---|---|
| Silicon dioxide<br>112945-52-5<br>[SILICA, AMORPHOUS] | | 6 | Time Weighted Average (TWA): | | IR_OEL |
| Silicon dioxide<br>112945-52-5<br>[SILICA, AMORPHOUS] | | 2,4 | Time Weighted Average (TWA): | | IR_OEL |
| Silicon dioxide<br>112945-52-5<br>[DUSTS NON-SPECIFIC] | | 10 | Time Weighted Average (TWA): | | IR_OEL |
| Silicon dioxide<br>112945-52-5<br>[DUSTS NON-SPECIFIC] | | 4 | Time Weighted Average (TWA): | | IR_OEL |

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

| Name on list | Environmental Compartment | Exposure period | Value | | | | Remarks |
|---|---|---|---|---|---|---|---|
| | | | mg/l | ppm | mg/kg | others | |
| Bisphenol A, 2-EO dimethacrylate 41637-38-1 | aqua (freshwater) | | | | | | no hazard identified |
| Bisphenol A, 2-EO dimethacrylate 41637-38-1 | aqua (marine water) | | | | | | no hazard identified |
| Bisphenol A, 2-EO dimethacrylate 41637-38-1 | sewage treatment plant (STP) | | | | | | no hazard identified |
| Bisphenol A, 2-EO dimethacrylate 41637-38-1 | sediment (freshwater) | | | | | | |
| Bisphenol A, 2-EO dimethacrylate 41637-38-1 | sediment (marine water) | | | | | | |
| Bisphenol A, 2-EO dimethacrylate 41637-38-1 | Air | | | | | | no hazard identified |
| Bisphenol A, 2-EO dimethacrylate 41637-38-1 | soil | | | | | | |
| Bisphenol A, 2-EO dimethacrylate 41637-38-1 | Predator | | | | | | |
| 1,1'-(1,3-Phenylene)bis-1H-pyrrole-2,5-dione 3006-93-7 | aqua (freshwater) | | 0,01 mg/l | | | | |
| 1,1'-(1,3-Phenylene)bis-1H-pyrrole-2,5-dione 3006-93-7 | aqua (marine water) | | 0,001 mg/l | | | | |
| 1,1'-(1,3-Phenylene)bis-1H-pyrrole-2,5-dione 3006-93-7 | sewage treatment plant (STP) | | 0,051 mg/l | | | | |
| 1,1'-(1,3-Phenylene)bis-1H-pyrrole-2,5-dione 3006-93-7 | sediment (freshwater) | | | | 0,346 mg/kg | | |
| 1,1'-(1,3-Phenylene)bis-1H-pyrrole-2,5-dione 3006-93-7 | sediment (marine water) | | | | 0,035 mg/kg | | |
| 1,1'-(1,3-Phenylene)bis-1H-pyrrole-2,5-dione 3006-93-7 | Soil | | | | 0,063 mg/kg | | |
| 1,1'-(1,3-Phenylene)bis-1H-pyrrole-2,5-dione 3006-93-7 | oral | | | | 0,05 mg/kg | | |
| Methacrylic acid, monoester with propane-1,2-diol 27813-02-1 | aqua (freshwater) | | 0,904 mg/l | | | | |
| Methacrylic acid, monoester with propane-1,2-diol 27813-02-1 | aqua (marine water) | | 0,904 mg/l | | | | |
| Methacrylic acid, monoester with propane-1,2-diol 27813-02-1 | sewage treatment plant (STP) | | 10 mg/l | | | | |
| Methacrylic acid, monoester with propane-1,2-diol 27813-02-1 | aqua (intermittent releases) | | 0,972 mg/l | | | | |
| Methacrylic acid, monoester with propane-1,2-diol 27813-02-1 | sediment (freshwater) | | | | 6,28 mg/kg | | |
| Methacrylic acid, monoester with propane-1,2-diol 27813-02-1 | sediment (marine water) | | | | 6,28 mg/kg | | |
| Methacrylic acid, monoester with propane-1,2-diol 27813-02-1 | Soil | | | | 0,727 mg/kg | | |
| .alpha.,.alpha.-Dimethylbenzyl hydroperoxide 80-15-9 | aqua (freshwater) | | 0,0031 mg/l | | | | |
| .alpha.,.alpha.-Dimethylbenzyl hydroperoxide 80-15-9 | aqua (marine water) | | 0,00031 mg/l | | | | |
| .alpha.,.alpha.-Dimethylbenzyl hydroperoxide 80-15-9 | aqua (intermittent releases) | | 0,031 mg/l | | | | |
| .alpha.,.alpha.-Dimethylbenzyl hydroperoxide | Sewage treatment plant | | 0,35 mg/l | | | | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 80-15-9 | | | | | | | |
| .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 110-16-7 | sediment (marine water) | | | | 0,0334 mg/kg | | |
| Maleic acid 110-16-7 | Soil | | | | 0,0415 mg/kg | | |

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

| Name on list | Application Area | Route of Exposure | Health Effect | Exposure Time | Value | Remarks |
|---|---|---|---|---|---|---|
| Bisphenol A, 2-EO dimethacrylate 41637-38-1 | Workers | inhalation | Long term exposure - systemic effects | | 3,52 mg/m3 | no hazard identified |
| Bisphenol A, 2-EO dimethacrylate 41637-38-1 | Workers | dermal | Long term exposure - systemic effects | | 2 mg/kg | no hazard identified |
| Bisphenol A, 2-EO dimethacrylate 41637-38-1 | General population | inhalation | Long term exposure - systemic effects | | 0,87 mg/m3 | no hazard identified |
| Bisphenol A, 2-EO dimethacrylate 41637-38-1 | General population | dermal | Long term exposure - systemic effects | | 1 mg/kg | no hazard identified |
| Bisphenol A, 2-EO dimethacrylate 41637-38-1 | General population | oral | Long term exposure - systemic effects | | 0,5 mg/kg | no hazard identified |
| 1,1'-(1,3-Phenylene)bis-1H-pyrrole-2,5-dione 3006-93-7 | Workers | inhalation | Long term exposure - systemic effects | | 0,176 mg/m3 | |
| 1,1'-(1,3-Phenylene)bis-1H-pyrrole-2,5-dione 3006-93-7 | Workers | dermal | Long term exposure - systemic effects | | 0,05 mg/kg | |
| 1,1'-(1,3-Phenylene)bis-1H-pyrrole-2,5-dione 3006-93-7 | General population | dermal | Long term exposure - systemic effects | | 0,025 mg/kg | |
| 1,1'-(1,3-Phenylene)bis-1H-pyrrole-2,5-dione 3006-93-7 | General population | oral | Long term exposure - systemic effects | | 0,025 mg/kg | |
| 1,1'-(1,3-Phenylene)bis-1H-pyrrole-2,5-dione 3006-93-7 | General population | inhalation | Long term exposure - systemic effects | | 0,043 mg/m3 | |
| Methacrylic acid, monoester with propane-1,2-diol 27813-02-1 | Workers | dermal | Long term exposure - systemic effects | | 4,2 mg/kg | |
| Methacrylic acid, monoester with propane-1,2-diol 27813-02-1 | Workers | Inhalation | Long term exposure - systemic effects | | 14,7 mg/m3 | |
| Methacrylic acid, monoester with propane-1,2-diol 27813-02-1 | General population | dermal | Long term exposure - systemic effects | | 2,5 mg/kg | |
| Methacrylic acid, monoester with propane-1,2-diol 27813-02-1 | General population | Inhalation | Long term exposure - systemic effects | | 8,8 mg/m3 | |
| Methacrylic acid, monoester with propane-1,2-diol 27813-02-1 | General population | oral | Long term exposure - systemic effects | | 2,5 mg/kg | |
| .alpha.,.alpha.-Dimethylbenzyl hydroperoxide 80-15-9 | Workers | inhalation | Long term exposure - systemic effects | | 6 mg/m3 | |
| Maleic acid 110-16-7 | Workers | dermal | Acute/short term exposure - local effects | | 0,55 mg/cm2 | |
| Maleic acid 110-16-7 | Workers | dermal | Long term exposure - local effects | | 0,04 mg/cm2 | |
| Maleic acid 110-16-7 | Workers | dermal | Acute/short term exposure - systemic effects | | 58 mg/kg | |
| Maleic acid 110-16-7 | Workers | dermal | Long term exposure - systemic effects | | 3,3 mg/kg | |
| Maleic acid 110-16-7 | Workers | inhalation | Acute/short term exposure - local effects | | 3 mg/m3 | |
| Maleic acid 110-16-7 | Workers | inhalation | Long term exposure - systemic effects | | 3 mg/m3 | |
| Maleic acid 110-16-7 | Workers | inhalation | Long term exposure - local effects | | 3 mg/m3 | |
| Maleic acid 110-16-7 | Workers | inhalation | Acute/short term exposure - | | 3 mg/m3 | |

| | | | | | | |
|---|---|---|---|---|---|---|
| | | | systemic effects | | | |

**Biological Exposure Indices:**
None

**8.2. Exposure controls:**

Engineering controls:
Ensure good ventilation/extraction.

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

Hand protection:
Chemical-resistant protective gloves (EN 374).
Suitable materials for short-term contact or splashes (recommended: at least protection index 2, corresponding to > 30 minutes permeation time as per EN 374):
nitrile rubber (NBR; >= 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<br>green |
| 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 | > 150 °C (> 302 °F) |
| Flash point | > 93,3 °C (> 199.94 °F); Tagliabue closed cup |
| Evaporation rate | No data available / Not applicable |
| Flammability | No data available / Not applicable |
| Explosive limits | No data available / Not applicable |
| Vapour pressure (20 °C (68 °F)) | < 0,1 mbar |
| Vapour pressure | < 300 mbar |

| | |
|---|---|
| (50 °C (122 °F)) | |
| Relative vapour density: | No data available / Not applicable |
| Density | 1,16 g/cm3 |
| (20 °C (68 °F)) | |
| Bulk density | No data available / Not applicable |
| Solubility | No data available / Not applicable |
| Solubility (qualitative) | Not miscible |
| (Solvent: Acetone) | |
| Partition coefficient: n-octanol/water | No data available / Not applicable |
| Auto-ignition temperature | No data available / Not applicable |
| Decomposition temperature | No data available / Not applicable |
| Viscosity | No data available / Not applicable |
| Viscosity (kinematic) | No data available / Not applicable |
| Explosive properties | No data available / Not applicable |
| Oxidising properties | No data available / Not applicable |

**9.2. Other information**

No data available / Not applicable

## SECTION 10: Stability and reactivity

**10.1. Reactivity**
Reacts with strong oxidants.
Acids.
Reducing agents.
Reaction with strong acids.
Strong bases.

**10.2. Chemical stability**
Stable under recommended storage conditions.

**10.3. Possibility of hazardous reactions**
See section reactivity

**10.4. Conditions to avoid**
Stable under normal conditions of storage and use.

**10.5. Incompatible materials**
See section reactivity.

**10.6. Hazardous decomposition products**
carbon oxides.
Hydrocarbons
nitrogen oxides
Rapid polymerisation may generate excessive heat and pressure.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

**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 type | Value | Species | Method |
|---|---|---|---|---|
| Ethoxylated bisphenol A dimethacrylate esters<br>41637-38-1 | LD50 | > 2.000 mg/kg | rat | OECD Guideline 423 (Acute Oral toxicity) |
| N,N-(m-phenylene)dimaleimide<br>3006-93-7 | Acute toxicity estimate (ATE) | 500 mg/kg | | Expert judgement |
| N,N-(m-phenylene)dimaleimide<br>3006-93-7 | LD50 | > 300 - 2.000 mg/kg | rat | OECD Guideline 423 (Acute Oral toxicity) |
| Hydroxypropyl methacrylate<br>27813-02-1 | LD50 | > 2.000 mg/kg | rat | OECD Guideline 401 (Acute Oral Toxicity) |
| 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-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 type | Value | Species | Method |
|---|---|---|---|---|
| Ethoxylated bisphenol A dimethacrylate esters<br>41637-38-1 | LD50 | > 2.000 mg/kg | rat | OECD Guideline 402 (Acute Dermal Toxicity) |
| Hydroxypropyl methacrylate<br>27813-02-1 | LD50 | > 5.000 mg/kg | rabbit | not specified |
| Cumene hydroperoxide<br>80-15-9 | LD50 | 530 - 1.060 mg/kg | rat | other guideline: |
| Cumene hydroperoxide<br>80-15-9 | Acute toxicity estimate (ATE) | 1.100 mg/kg | | Expert judgement |
| maleic acid<br>110-16-7 | LD50 | 1.560 mg/kg | rabbit | not specified |

**Acute inhalative toxicity:**

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

| Hazardous substances<br>CAS-No. | Value type | Value | Test atmosphere | Exposure time | Species | Method |
|---|---|---|---|---|---|---|
| N,N-(m-phenylene)dimaleimide<br>3006-93-7 | LC50 | 0,055 mg/l | dust | 4 h | rat | OECD Guideline 403 (Acute Inhalation Toxicity) |
| 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 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 time | Species | Method |
|---|---|---|---|---|
| Ethoxylated bisphenol A dimethacrylate esters<br>41637-38-1 | not irritating | 4 h | rabbit | OECD Guideline 404 (Acute Dermal Irritation / Corrosion) |
| N,N-(m-phenylene)dimaleimide<br>3006-93-7 | not corrosive | 60 min | Human, EpiDerm™ SIT (EPI-200), Reconstructed Human Epidermis (RHE) | OECD Guideline 431 (In Vitro Skin Corrosion: Reconstructed Human Epidermis (RHE) Test Method) |
| N,N-(m-phenylene)dimaleimide<br>3006-93-7 | not irritating | 60 min | Human, EpiDerm™ SIT (EPI-200), Reconstructed Human Epidermis (RHE) | OECD Guideline 439 (In Vitro Skin Irritation: Reconstructed Human Epidermis (RHE) Test Method) |
| Hydroxypropyl methacrylate<br>27813-02-1 | 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 (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 time | Species | Method |
|---|---|---|---|---|
| Ethoxylated bisphenol A dimethacrylate esters<br>41637-38-1 | not irritating | | rabbit | OECD Guideline 405 (Acute Eye Irritation / Corrosion) |
| N,N-(m-phenylene)dimaleimide<br>3006-93-7 | not irritating | | Bovine, cornea, in vitro test | OECD Guideline 437 (BCOP) |
| Hydroxypropyl methacrylate<br>27813-02-1 | irritating | | rabbit | Draize Test |
| maleic acid<br>110-16-7 | highly 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 |
|---|---|---|---|---|
| Ethoxylated bisphenol A dimethacrylate esters<br>41637-38-1 | not sensitising | Mouse local lymphnode assay (LLNA) | mouse | OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay) |
| N,N-(m-phenylene)dimaleimide<br>3006-93-7 | not sensitising | Mouse local lymphnode assay (LLNA) | mouse | OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay) |
| Hydroxypropyl methacrylate<br>27813-02-1 | sensitising | Guinea pig maximisation test | guinea pig | not specified |
| maleic acid<br>110-16-7 | sensitising | Mouse local lymphnode assay (LLNA) | mouse | OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay) |
| maleic acid<br>110-16-7 | sensitising | Mouse local lymphnode assay (LLNA) | guinea pig | OECD Guideline 406 (Skin Sensitisation) |
| 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 / Route of administration | Metabolic activation / Exposure time | Species | Method |
|---|---|---|---|---|---|
| Ethoxylated bisphenol A dimethacrylate esters<br>41637-38-1 | negative | bacterial reverse mutation assay (e.g Ames test) | with and without | | OECD Guideline 471 (Bacterial Reverse Mutation Assay) |
| Ethoxylated bisphenol A dimethacrylate esters<br>41637-38-1 | negative | mammalian cell gene mutation assay | with and without | | OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test) |
| Ethoxylated bisphenol A dimethacrylate esters<br>41637-38-1 | negative | in vitro mammalian cell micronucleus test | with and without | | OECD Guideline 487 (In vitro Mammalian Cell Micronucleus Test) |
| Ethoxylated bisphenol A dimethacrylate esters<br>41637-38-1 | positive | in vitro mammalian cell micronucleus test | with and without | | OECD Guideline 487 (In vitro Mammalian Cell Micronucleus Test) |
| Ethoxylated bisphenol A dimethacrylate esters<br>41637-38-1 | negative | mammalian cell gene mutation assay | with and without | | OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test) |
| N,N-(m-phenylene)dimaleimide<br>3006-93-7 | negative | bacterial reverse mutation assay (e.g Ames test) | with and without | | OECD Guideline 471 (Bacterial Reverse Mutation Assay) |
| N,N-(m-phenylene)dimaleimide<br>3006-93-7 | negative | in vitro mammalian chromosome aberration test | with and without | | OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test) |
| N,N-(m-phenylene)dimaleimide<br>3006-93-7 | negative | mammalian cell gene mutation assay | with and without | | OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test) |
| Hydroxypropyl methacrylate<br>27813-02-1 | negative | bacterial reverse mutation assay (e.g Ames test) | with and without | | OECD Guideline 471 (Bacterial Reverse Mutation Assay) |
| Hydroxypropyl methacrylate<br>27813-02-1 | negative | mammalian cell gene mutation assay | with and without | | OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test) |
| Cumene hydroperoxide<br>80-15-9 | positive | bacterial reverse mutation assay (e.g Ames test) | without | | OECD Guideline 471 (Bacterial Reverse Mutation Assay) |
| maleic acid<br>110-16-7 | negative | bacterial reverse mutation assay (e.g Ames test) | no data | | Ames Test |
| maleic acid<br>110-16-7 | negative | mammalian cell gene mutation assay | with and without | | OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test) |

**Carcinogenicity**

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

| Hazardous components<br>CAS-No. | Result | Route of application | Exposure time / Frequency of treatment | Species | Sex | Method |
|---|---|---|---|---|---|---|
| Hydroxypropyl methacrylate<br>27813-02-1 | not carcinogenic | inhalation | 2 years (102 weeks)<br>6 hours/day, 5 days/week | rat | male | OECD Guideline 451 (Carcinogenicity Studies) |
| maleic acid<br>110-16-7 | not carcinogenic | oral: feed | 2 y<br>daily | rat | male/female | OECD Guideline 451 (Carcinogenicity Studies) |

**Reproductive toxicity:**

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

| Hazardous substances<br>CAS-No. | Result / Value | Test type | Route of application | Species | Method |
|---|---|---|---|---|---|
| Ethoxylated bisphenol A dimethacrylate esters<br>41637-38-1 | NOAEL P 250 mg/kg<br><br>NOAEL F1 1.000 mg/kg | | oral: gavage | rat | OECD Guideline 421 (Reproduction / Developmental Toxicity Screening Test) |
| N,N-(m-phenylene)dimaleimide<br>3006-93-7 | NOAEL P 240 mg/kg<br><br>NOAEL F1 240 mg/kg | screening | oral: gavage | rat | OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test) |
| Hydroxypropyl methacrylate<br>27813-02-1 | NOAEL P 400 mg/kg | two-generation study | oral: gavage | rat | OECD Guideline 416 (Two-Generation Reproduction Toxicity Study) |
| maleic acid<br>110-16-7 | NOAEL F1 150 mg/kg<br><br>NOAEL F2 55 mg/kg | Two generation study | oral: gavage | rat | OECD Guideline 416 (Two-Generation Reproduction Toxicity Study) |

**STOT-single exposure:**

No data available.

**STOT-repeated exposure::**

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

| Hazardous substances<br>CAS-No. | Result / Value | Route of application | Exposure time / Frequency of treatment | Species | Method |
|---|---|---|---|---|---|
| Ethoxylated bisphenol A dimethacrylate esters<br>41637-38-1 | NOAEL 300 mg/kg | oral: gavage | 4 weeks<br>daily | rat | OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity in Rodents) |
| N,N-(m-phenylene)dimaleimide<br>3006-93-7 | NOAEL 15 mg/kg | oral: gavage | 42-52 d<br>daily | rat | OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test) |
| Hydroxypropyl methacrylate<br>27813-02-1 | NOAEL 300 mg/kg | oral: gavage | | rat | OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test) |
| Cumene hydroperoxide<br>80-15-9 | | inhalation: aerosol | 6 h/d<br>5 d/w | rat | not specified |
| maleic acid<br>110-16-7 | NOAEL >= 40 mg/kg | oral: feed | 90 d<br>daily | rat | OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents) |

**Aspiration hazard:**

No data available.

## 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 type | Value | Exposure time | Species | Method |
|---|---|---|---|---|---|
| Ethoxylated bisphenol A dimethacrylate esters<br>41637-38-1 | LL50 | Toxicity > Water solubility | 96 h | Oncorhynchus mykiss | OECD Guideline 203 (Fish, Acute Toxicity Test) |
| Hydroxypropyl methacrylate<br>27813-02-1 | LC50 | 493 mg/l | 48 h | Leuciscus idus melanotus | DIN 38412-15 |
| Cumene hydroperoxide<br>80-15-9 | LC50 | 3,9 mg/l | 96 h | Oncorhynchus mykiss | OECD Guideline 203 (Fish, Acute Toxicity Test) |
| maleic acid<br>110-16-7 | LC50 | > 245 mg/l | 48 h | Leuciscus idus | DIN 38412-15 |
| N,N-dimethyl-o-toluidine<br>609-72-3 | LC 50 | 46 mg/l | 96 h | Fathead minnow (Pimephales promelas) | |

**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 type | Value | Exposure time | Species | Method |
|---|---|---|---|---|---|
| Ethoxylated bisphenol A dimethacrylate esters<br>41637-38-1 | EL50 | Toxicity > Water solubility | 48 h | Daphnia magna | OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) |
| N,N-(m-phenylene)dimaleimide<br>3006-93-7 | EC50 | 31,6 mg/l | 48 h | Daphnia magna | OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) |
| Hydroxypropyl methacrylate<br>27813-02-1 | EC50 | > 143 mg/l | 48 h | Daphnia magna | OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) |
| Cumene hydroperoxide<br>80-15-9 | EC50 | 18,84 mg/l | 48 h | Daphnia magna | OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) |
| maleic acid<br>110-16-7 | EC50 | 42,81 mg/l | 48 h | Daphnia magna | OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) |

**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 type | Value | Exposure time | Species | Method |
|---|---|---|---|---|---|
| Hydroxypropyl methacrylate<br>27813-02-1 | NOEC | 45,2 mg/l | 21 d | Daphnia magna | OECD 211 (Daphnia magna, Reproduction Test) |
| maleic acid<br>110-16-7 | NOEC | 10 mg/l | 21 d | Daphnia magna | other guideline: |

**Toxicity (Algae):**

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

| Hazardous substances<br>CAS-No. | Value type | Value | Exposure time | Species | Method |
|---|---|---|---|---|---|
| Ethoxylated bisphenol A dimethacrylate esters<br>41637-38-1 | EL50 | Toxicity > Water solubility | 72 h | Pseudokirchneriella subcapitata | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| Ethoxylated bisphenol A dimethacrylate esters<br>41637-38-1 | EL10 | Toxicity > Water solubility | 72 h | Pseudokirchneriella subcapitata | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| N,N-(m-phenylene)dimaleimide<br>3006-93-7 | ErC50 | 67,898 mg/l | 72 h | Desmodesmus subspicatus | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| N,N-(m-phenylene)dimaleimide<br>3006-93-7 | EC10 | 0,308 mg/l | 72 h | Desmodesmus subspicatus | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| Hydroxypropyl methacrylate<br>27813-02-1 | EC50 | > 97,2 mg/l | 72 h | Pseudokirchneriella subcapitata | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| Hydroxypropyl methacrylate<br>27813-02-1 | NOEC | > 97,2 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 | EC50 | 0,011 mg/l | 72 h | Dunaliella bioculata | 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<br>CAS-No. | Value type | Value | Exposure time | Species | Method |
|---|---|---|---|---|---|
| Ethoxylated bisphenol A dimethacrylate esters<br>41637-38-1 | EC50 | Toxicity > Water solubility | 3 h | activated sludge of a predominantly domestic sewage | OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test) |
| Hydroxypropyl methacrylate<br>27813-02-1 | EC10 | 1.140 mg/l | 16 h | | not specified |
| Cumene hydroperoxide<br>80-15-9 | EC10 | 70 mg/l | 30 min | | not specified |
| maleic acid<br>110-16-7 | EC10 | 44,6 mg/l | 18 h | Pseudomonas putida | DIN 38412, part 8 (Pseudomonas Zellvermehrungshemm-Test) |

**12.2. Persistence and degradability**

| Hazardous substances<br>CAS-No. | Result | Test type | Degradability | Exposure time | Method |
|---|---|---|---|---|---|
| Ethoxylated bisphenol A dimethacrylate esters<br>41637-38-1 | not readily biodegradable. | aerobic | 24 % | 28 d | OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test) |
| N,N-(m-phenylene)dimaleimide<br>3006-93-7 | not readily biodegradable. | not specified | 0 - < 60 % | | OECD Guideline 303 A (Simulation TestAerobic Sewage Treatment. A: Activated Sludge Units) |
| N,N-(m-phenylene)dimaleimide<br>3006-93-7 | not readily biodegradable. | aerobic | 0 % | 28 d | OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test) |
| Hydroxypropyl methacrylate<br>27813-02-1 | readily biodegradable | aerobic | 94,2 % | 28 d | OECD Guideline 301 E (Ready biodegradability: Modified OECD Screening 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. | no data | 0 - 60 % | | OECD 301 A - F |

**12.3. Bioaccumulative potential**

| Hazardous substances<br>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 |
|---|---|---|---|
| Ethoxylated bisphenol A dimethacrylate esters<br>41637-38-1 | 5,3 - 5,62 | | OECD Guideline 117 (Partition Coefficient (n-octanol / water), HPLC Method) |
| N,N-(m-phenylene)dimaleimide<br>3006-93-7 | 0,67 | 24 °C | OECD Guideline 117 (Partition Coefficient (n-octanol / water), HPLC Method) |
| Hydroxypropyl methacrylate<br>27813-02-1 | 0,97 | 20 °C | not specified |
| Cumene hydroperoxide<br>80-15-9 | 1,6 | 25 °C | OECD Guideline 117 (Partition Coefficient (n-octanol / water), HPLC Method) |
| maleic acid<br>110-16-7 | -1,3 | 20 °C | OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method) |
| 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 |
|---|---|
| Ethoxylated bisphenol A dimethacrylate esters<br>41637-38-1 | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria. |
| Hydroxypropyl methacrylate<br>27813-02-1 | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria. |
| Cumene hydroperoxide<br>80-15-9 | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria. |
| maleic acid<br>110-16-7 | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria. |
| 1,4-Naphthalenedione<br>130-15-4 | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria. |

**12.6. Other adverse effects**

No data available.

## SECTION 13: Disposal considerations

**13.1. Waste treatment methods**

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

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

Waste code

08 04 09* waste adhesives and sealants containing organic solvents and other dangerous substances
The valid EWC waste code numbers are source-related. The manufacturer is therefore unable to specify EWC waste codes for the articles or products used in the various sectors. The EWC codes listed are intended as a recommendation for users. We will be happy to advise you.

## SECTION 14: Transport information

**14.1. UN number**

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

**14.2. UN proper shipping name**

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

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

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

**14.4. Packing group**

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

**14.5. Environmental hazards**

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

**14.6. Special precautions for user**

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

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

**14.7. 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**

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

**EU. REACH, Annex XVII, Marketing and Use Restrictions (Regulation 1907/2006/EC)**: Not applicable

| | |
|---|---|
| VOC content (2010/75/EC) | < 3 % |

**15.2. Chemical safety assessment**

A chemical safety assessment has not been carried out.

## SECTION 16: Other information

The labelling of the product is indicated in Section 2. The full text of all abbreviations indicated by codes in this safety data sheet are as follows:

H242 Heating may cause a fire.
H301 Toxic if swallowed.
H302 Harmful if swallowed.
H311 Toxic in contact with skin.
H312 Harmful in contact with skin.
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H330 Fatal if inhaled.
H331 Toxic if inhaled.
H335 May cause respiratory irritation.
H351 Suspected of causing cancer.
H373 May cause damage to organs through prolonged or repeated exposure.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
H411 Toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.
H413 May cause long lasting harmful effects to aquatic life.

**Further information:**

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