



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

Page 1 of 23

620 RETAINING COMPOUND 50 ML

SDS No. : 153472  
V022.0

Revision: 14.12.2024

printing date: 10.08.2025

Replaces version from: 05.09.2024

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

#### 1.1. Product identifier

620 RETAINING COMPOUND 50 ML  
UFI: K078-EX1W-120C-MTDK

#### 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

SDSinfo.Adhesive@henkel.com

For Safety Data Sheet updates please visit our website [www.mysds.henkel.com](http://www.mysds.henkel.com) or [www.henkel-adhesives.com](http://www.henkel-adhesives.com).

#### 1.4. Emergency telephone number

24 Hours Emergency Tel: +44 (0)1442 278497

### SECTION 2: Hazards identification

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

##### Classification (CLP):

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)dimalimide

Hydroxypropyl methacrylate  
Cumene hydroperoxide  
maleic acid

Acetic acid, 2-phenylhydrazide

**Signal word:**

**Warning**

**Hazard statement:**

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

**Precautionary statement:**

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

**Precautionary statement:  
Prevention**

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

**Precautionary statement:  
Response**

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.  
P337+P313 If eye irritation persists: Get medical advice/attention.

### 2.3. Other hazards

None if used properly.

This product contains a substance that is classified as Acute Toxicity Category 2, Inhalation, in powder form. Experimental data show that this substance, as an ingredient in this mixture, is not biologically available according to CLP Art. 12 b.

**Following substances are present in a concentration  $\geq$  the concentration limit for depiction in Section 3 and fulfill the criteria for PBT/vPvB, or were identified as endocrine disruptor (ED):**

This mixture does not contain any substances in a concentration  $\geq$  the concentration limit for depiction in Section 3 that are assessed to be a PBT, vPvB or ED.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

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

| Hazardous components<br>CAS-No.<br>EC Number<br>REACH-Reg No.               | Concentration                                 | Classification                                                                                                                                                                                          | Specific Conc. Limits, M-<br>factors and ATEs                                                                                                                                                              | Add.<br>Information |
|-----------------------------------------------------------------------------|-----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|
| N,N-(m-phenylene)dimalleimide<br>3006-93-7<br>221-112-8<br>01-2120756106-57 | 10 - < 20 %                                   | Acute Tox. 4, Oral, H302<br>Skin Sens. 1A, H317<br>Acute Tox. 2, Inhalation, H330<br>Aquatic Chronic 2, H411                                                                                            | oral:ATE = 500 mg/kg                                                                                                                                                                                       |                     |
| Hydroxypropyl methacrylate<br>27813-02-1<br>248-666-3<br>01-2119490226-37   | 1 - < 5 %                                     | Skin Sens. 1, H317<br>Eye Irrit. 2, H319                                                                                                                                                                |                                                                                                                                                                                                            |                     |
| Cumene hydroperoxide<br>80-15-9<br>201-254-7<br>01-2119475796-19            | 1 - < 3 %                                     | STOT RE 2, H373<br>Skin Corr. 1B, H314<br>Acute Tox. 2, Inhalation, H330<br>Aquatic Chronic 2, H411<br>Acute Tox. 4, Oral, H302<br>Acute Tox. 4, Dermal, H312<br>Org. Perox. E, H242<br>STOT SE 3, H335 | Eye Irrit. 2; H319; C 1 - < 3 %<br>Skin Irrit. 2; H315; C 3 - < 10 %<br>Eye Dam. 1; H318; C 3 - < 10 %<br>STOT SE 3; H335; C >= 1 %<br>Skin Corr. 1B; H314; C >= 10 %<br>=====<br>dermal:ATE = 1.100 mg/kg |                     |
| N,N-Diethyl-p-toluidine<br>613-48-9<br>210-345-0                            | 0,1 - < 1 %                                   | Acute Tox. 3, Oral, H301<br>Acute Tox. 3, Dermal, H311<br>Acute Tox. 3, Inhalation, H331<br>STOT RE 2, H373<br>Aquatic Chronic 3, H412<br>Skin Irrit. 2, H315                                           | dermal:ATE = 300 mg/kg<br>oral:ATE = 100 mg/kg<br>inhalation:ATE = 3 mg/l; vapour                                                                                                                          |                     |
| maleic acid<br>110-16-7<br>203-742-5<br>01-2119488705-25                    | 0,1 - < 1 %                                   | Acute Tox. 4, Oral, H302<br>Eye Irrit. 2, H319<br>STOT SE 3, H335<br>Skin Irrit. 2, H315<br>Skin Sens. 1, H317<br>Acute Tox. 4, Dermal, H312                                                            | Skin Sens. 1; H317; C >= 0,1 %                                                                                                                                                                             |                     |
| N,N-dimethyl-o-toluidine<br>609-72-3<br>210-199-8                           | 0,1 - < 1 %                                   | STOT RE 2, H373<br>Acute Tox. 3, Oral, H301<br>Acute Tox. 3, Dermal, H311<br>Acute Tox. 3, Inhalation, H331<br>Aquatic Chronic 3, H412                                                                  | dermal:ATE = 300 mg/kg<br>oral:ATE = 100 mg/kg<br>inhalation:ATE = 0,5<br>mg/l; dust/mist                                                                                                                  |                     |
| Acetic acid, 2-phenylhydrazide<br>114-83-0<br>204-055-3<br>01-2120951382-56 | 0,1 - < 1 %                                   | Aquatic Acute 1, H400<br>Aquatic Chronic 1, H410<br>Acute Tox. 4, Oral, H302<br>Skin Sens. 1, H317<br>Carc. 2, H351                                                                                     | M acute = 1<br>M chronic = 1                                                                                                                                                                               |                     |
| 1,4-Naphthalenedione<br>130-15-4<br>204-977-6                               | 0,0025 - < 0,025 %<br>(25 ppm - < 250<br>ppm) | Acute Tox. 3, Oral, H301<br>Skin Corr. 1C, H314<br>Skin Sens. 1, H317<br>Eye Dam. 1, H318<br>Acute Tox. 1, Inhalation, H330<br>STOT SE 3, H335<br>Aquatic Acute 1, H400<br>Aquatic Chronic 1, H410      | M acute = 10<br>M chronic = 1                                                                                                                                                                              |                     |

If no ATE values are displayed, please refer to LD/LC50 values in Section 11.

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

## SECTION 4: First aid measures

## 4.1. Description of first aid measures

**Inhalation:**

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

**Skin contact:**

Rinse with running water and soap.

Obtain medical attention if irritation persists.

**Eye contact:**

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

**Ingestion:**

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

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

SKIN: Rash, Urticaria.

EYE: Irritation, conjunctivitis.

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

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

See section: Description of first aid measures

## SECTION 5: Firefighting measures

**5.1. Extinguishing media**

**Suitable extinguishing media:**

water, carbon dioxide, foam, powder

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

High pressure waterjet

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

In the event of a fire, carbon monoxide (CO), carbon dioxide (CO<sub>2</sub>) and nitrogen oxides (NO<sub>x</sub>) can be released.

**5.3. Advice for firefighters**

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

**Additional information:**

In case of fire, keep containers cool with water spray.

## SECTION 6: Accidental release measures

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

Avoid contact with skin and eyes.

Wear protective equipment.

Ensure adequate ventilation.

Keep away from sources of ignition.

**6.2. Environmental precautions**

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

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

Dispose of contaminated material as waste according to Section 13.

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

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

**6.4. Reference to other sections**

See advice in section 8

**SECTION 7: Handling and storage****7.1. Precautions for safe handling**

Avoid skin and eye contact.  
See advice in section 8

**Hygiene measures:**

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

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

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 <sup>3</sup> | 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 <sup>3</sup> | 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<br>Compartment       | Exposure<br>period | Value           |     |                |        | Remarks                             |
|---------------------------------------------------------------------|------------------------------------|--------------------|-----------------|-----|----------------|--------|-------------------------------------|
|                                                                     |                                    |                    | mg/l            | ppm | mg/kg          | others |                                     |
| 1,1'-(1,3-Phenylene)bis-1H-pyrrole-2,5-dione<br>3006-93-7           | aqua<br>(freshwater)               |                    | 0,01 mg/l       |     |                |        |                                     |
| 1,1'-(1,3-Phenylene)bis-1H-pyrrole-2,5-dione<br>3006-93-7           | aqua (marine<br>water)             |                    | 0,001 mg/l      |     |                |        |                                     |
| 1,1'-(1,3-Phenylene)bis-1H-pyrrole-2,5-dione<br>3006-93-7           | sewage<br>treatment plant<br>(STP) |                    | 0,051 mg/l      |     |                |        |                                     |
| 1,1'-(1,3-Phenylene)bis-1H-pyrrole-2,5-dione<br>3006-93-7           | sediment<br>(freshwater)           |                    |                 |     | 0,346<br>mg/kg |        |                                     |
| 1,1'-(1,3-Phenylene)bis-1H-pyrrole-2,5-dione<br>3006-93-7           | sediment<br>(marine water)         |                    |                 |     | 0,035<br>mg/kg |        |                                     |
| 1,1'-(1,3-Phenylene)bis-1H-pyrrole-2,5-dione<br>3006-93-7           | Soil                               |                    |                 |     | 0,063<br>mg/kg |        |                                     |
| 1,1'-(1,3-Phenylene)bis-1H-pyrrole-2,5-dione<br>3006-93-7           | oral                               |                    |                 |     | 0,05 mg/kg     |        |                                     |
| 1,1'-(1,3-Phenylene)bis-1H-pyrrole-2,5-dione<br>3006-93-7           | Freshwater -<br>intermittent       |                    | 0,1 mg/l        |     |                |        |                                     |
| 1,1'-(1,3-Phenylene)bis-1H-pyrrole-2,5-dione<br>3006-93-7           | Marine water -<br>intermittent     |                    | 0,01 mg/l       |     |                |        |                                     |
| Methacrylic acid, monoester with propane-<br>1,2-diol<br>27813-02-1 | aqua<br>(freshwater)               |                    | 0,904 mg/l      |     |                |        |                                     |
| Methacrylic acid, monoester with propane-<br>1,2-diol<br>27813-02-1 | aqua (marine<br>water)             |                    | 0,904 mg/l      |     |                |        |                                     |
| Methacrylic acid, monoester with propane-<br>1,2-diol<br>27813-02-1 | sewage<br>treatment plant<br>(STP) |                    | 10 mg/l         |     |                |        |                                     |
| Methacrylic acid, monoester with propane-<br>1,2-diol<br>27813-02-1 | aqua<br>(intermittent<br>releases) |                    | 0,972 mg/l      |     |                |        |                                     |
| Methacrylic acid, monoester with propane-<br>1,2-diol<br>27813-02-1 | sediment<br>(freshwater)           |                    |                 |     | 6,28 mg/kg     |        |                                     |
| Methacrylic acid, monoester with propane-<br>1,2-diol<br>27813-02-1 | sediment<br>(marine water)         |                    |                 |     | 6,28 mg/kg     |        |                                     |
| Methacrylic acid, monoester with propane-<br>1,2-diol<br>27813-02-1 | Soil                               |                    |                 |     | 0,727<br>mg/kg |        |                                     |
| Methacrylic acid, monoester with propane-<br>1,2-diol<br>27813-02-1 | Marine water -<br>intermittent     |                    | 0,972 mg/l      |     |                |        |                                     |
| Methacrylic acid, monoester with propane-<br>1,2-diol<br>27813-02-1 | Air                                |                    |                 |     |                |        | no hazard identified                |
| Methacrylic acid, monoester with propane-<br>1,2-diol<br>27813-02-1 | Predator                           |                    |                 |     |                |        | no potential for<br>bioaccumulation |
| .alpha.,.alpha.-Dimethylbenzyl<br>hydroperoxide<br>80-15-9          | aqua<br>(freshwater)               |                    | 0,0031<br>mg/l  |     |                |        |                                     |
| .alpha.,.alpha.-Dimethylbenzyl<br>hydroperoxide<br>80-15-9          | aqua<br>(intermittent<br>releases) |                    | 0,031 mg/l      |     |                |        |                                     |
| .alpha.,.alpha.-Dimethylbenzyl<br>hydroperoxide<br>80-15-9          | aqua (marine<br>water)             |                    | 0,00031<br>mg/l |     |                |        |                                     |
| .alpha.,.alpha.-Dimethylbenzyl                                      | sewage                             |                    | 0,35 mg/l       |     |                |        |                                     |

|                                                            |                                    |  |                |  |                 |  |  |
|------------------------------------------------------------|------------------------------------|--|----------------|--|-----------------|--|--|
| hydroperoxide<br>80-15-9                                   | treatment plant<br>(STP)           |  |                |  |                 |  |  |
| .alpha.,.alpha.-Dimethylbenzyl<br>hydroperoxide<br>80-15-9 | sediment<br>(freshwater)           |  |                |  | 0,023<br>mg/kg  |  |  |
| .alpha.,.alpha.-Dimethylbenzyl<br>hydroperoxide<br>80-15-9 | sediment<br>(marine water)         |  |                |  | 0,0023<br>mg/kg |  |  |
| .alpha.,.alpha.-Dimethylbenzyl<br>hydroperoxide<br>80-15-9 | Soil                               |  |                |  | 0,0029<br>mg/kg |  |  |
| Maleic acid<br>110-16-7                                    | aqua<br>(freshwater)               |  | 0,1 mg/l       |  |                 |  |  |
| Maleic acid<br>110-16-7                                    | aqua<br>(intermittent<br>releases) |  | 0,4281<br>mg/l |  |                 |  |  |
| Maleic acid<br>110-16-7                                    | sediment<br>(freshwater)           |  |                |  | 0,334<br>mg/kg  |  |  |
| Maleic acid<br>110-16-7                                    | sewage<br>treatment plant<br>(STP) |  | 44,6 mg/l      |  |                 |  |  |
| Maleic acid<br>110-16-7                                    | aqua (marine<br>water)             |  | 0,01 mg/l      |  |                 |  |  |
| Maleic acid<br>110-16-7                                    | sediment<br>(marine water)         |  |                |  | 0,0334<br>mg/kg |  |  |
| Maleic acid<br>110-16-7                                    | Soil                               |  |                |  | 0,0415<br>mg/kg |  |  |

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

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

|                         |         |            |                                                    |  |         |  |
|-------------------------|---------|------------|----------------------------------------------------|--|---------|--|
|                         |         |            | systemic effects                                   |  |         |  |
| Maleic acid<br>110-16-7 | Workers | inhalation | Long term<br>exposure - local<br>effects           |  | 3 mg/m3 |  |
| Maleic acid<br>110-16-7 | Workers | inhalation | Acute/short term<br>exposure -<br>systemic effects |  | 3 mg/m3 |  |

**Biological Exposure Indices:**

None

**8.2. Exposure controls:**

## Engineering controls:

Ensure good ventilation/extraction.

## Respiratory protection:

Ensure adequate ventilation.

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

Filter type: A (EN 14387)

## Hand protection:

Chemical-resistant protective gloves (EN 374).

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

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

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

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

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

## Eye protection:

Safety glasses with sideshields or chemical safety goggles should be worn if there is a risk of splashing.

Protective eye equipment should conform to EN166.

## Skin protection:

Wear suitable protective clothing.

Protective clothing should conform to EN 14605 for liquid splashes or to EN 13982 for dusts.

## Advices to personal protection equipment:

The information provided on personal protective equipment is for guidance purposes only. A full risk assessment should be conducted prior to using this product to determine the appropriate personal protective equipment to suit local conditions.

Personal protective equipment should conform to the relevant EN standard.

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

|                            |                                                                    |
|----------------------------|--------------------------------------------------------------------|
| Delivery form              | liquid                                                             |
| Colour                     | green                                                              |
| Odor                       | mild, acrylic                                                      |
| Physical state             | liquid                                                             |
| Melting point              | Not applicable, Product is a liquid                                |
| Solidification temperature | < -30 °C (< -22 °F)                                                |
| Initial boiling point      | > 150 °C (> 302 °F)                                                |
| Flammability               | non flammable                                                      |
| Explosive limits           | Not applicable, The product is not flammable.                      |
| Flash point                | > 100,00 °C (> 212 °F) No flash point up to 100 °C                 |
| Auto-ignition temperature  | > 300 °C (> 572 °F)                                                |
| Decomposition temperature  | Not applicable, Substance/mixture is not self-reactive, no organic |

|                                                             |                                                                                                                   |
|-------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|
| pH                                                          | peroxide and does not decompose under foreseen conditions of use<br>Not applicable, Product is non-polar/aprotic. |
| Viscosity (kinematic)<br>(40 °C (104 °F); )                 | > 20,5 mm <sup>2</sup> /s                                                                                         |
| Solubility (qualitative)<br>(Solvent: Acetone)              | Not miscible                                                                                                      |
| Solubility (qualitative)<br>(20 °C (68 °F); Solvent: Water) | Slight                                                                                                            |
| Partition coefficient: n-octanol/water                      | Not applicable<br>Mixture                                                                                         |
| Vapour pressure<br>(27 °C (80.6 °F))                        | < 5 mm hg                                                                                                         |
| Vapour pressure<br>(20 °C (68 °F))                          | < 0,13 mbar                                                                                                       |
| Vapour pressure<br>(20 °C (68 °F))                          | < 0,1 mbar                                                                                                        |
| Vapour pressure<br>(50 °C (122 °F))                         | < 300 mbar;no method / method unknown                                                                             |
| Density<br>(20 °C (68 °F))                                  | 1,16 g/cm <sup>3</sup> None                                                                                       |
| Relative vapour density:<br>(20 °C)                         | > 1                                                                                                               |
| Particle characteristics                                    | Not applicable<br>Product is a liquid                                                                             |

## 9.2. Other information

Other information not applicable for this product

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Reacts with strong oxidants.  
Acids.  
Reducing agents.  
Strong bases.

### 10.2. Chemical stability

Stable under recommended storage conditions.

### 10.3. Possibility of hazardous reactions

See section reactivity

### 10.4. Conditions to avoid

Stable under normal conditions of storage and use.

### 10.5. Incompatible materials

See section reactivity.

### 10.6. Hazardous decomposition products

carbon oxides.  
Hydrocarbons  
nitrogen oxides  
Rapid polymerisation may generate excessive heat and pressure.

**SECTION 11: Toxicological information****11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008****Acute oral toxicity:**

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

| Hazardous substances<br>CAS-No.                | Value<br>type                          | Value                  | Species | Method                                                               |
|------------------------------------------------|----------------------------------------|------------------------|---------|----------------------------------------------------------------------|
| N,N-(m-phenylene)dimaldimide<br>3006-93-7      | Acute<br>toxicity<br>estimate<br>(ATE) | 500 mg/kg              |         | Expert judgement                                                     |
| N,N-(m-phenylene)dimaldimide<br>3006-93-7      | LD50                                   | > 300 - 2.000<br>mg/kg | rat     | OECD Guideline 423 (Acute Oral toxicity)                             |
| Hydroxypropyl<br>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:                                                     |
| N,N-Diethyl-p-toluidine<br>613-48-9            | Acute<br>toxicity<br>estimate<br>(ATE) | 100 mg/kg              |         | Expert judgement                                                     |
| maleic acid<br>110-16-7                        | LD50                                   | 708 mg/kg              | rat     | not specified                                                        |
| N,N-dimethyl-o-toluidine<br>609-72-3           | Acute<br>toxicity<br>estimate<br>(ATE) | 100 mg/kg              |         | Expert judgement                                                     |
| Acetic acid, 2-<br>phenylhydrazide<br>114-83-0 | LD50                                   | 310 mg/kg              | rat     | OECD Guideline 425 (Acute Oral Toxicity: Up-and-Down<br>Procedure)   |
| 1,4-Naphthalenedione<br>130-15-4               | LD50                                   | 124 mg/kg              | rat     | equivalent or similar to OECD Guideline 401 (Acute Oral<br>Toxicity) |

**Acute dermal toxicity:**

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

| Hazardous substances<br>CAS-No.             | Value<br>type                          | Value         | Species | Method           |
|---------------------------------------------|----------------------------------------|---------------|---------|------------------|
| Hydroxypropyl<br>methacrylate<br>27813-02-1 | LD50                                   | > 5.000 mg/kg | rabbit  | not specified    |
| Cumene hydroperoxide<br>80-15-9             | Acute<br>toxicity<br>estimate<br>(ATE) | 1.100 mg/kg   |         | Expert judgement |
| N,N-Diethyl-p-toluidine<br>613-48-9         | Acute<br>toxicity<br>estimate<br>(ATE) | 300 mg/kg     |         | Expert judgement |
| maleic acid<br>110-16-7                     | LD50                                   | 1.560 mg/kg   | rabbit  | not specified    |
| N,N-dimethyl-o-toluidine<br>609-72-3        | Acute<br>toxicity<br>estimate<br>(ATE) | 300 mg/kg     |         | Expert judgement |

**Acute inhalative toxicity:**

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

| Hazardous substances<br>CAS-No.         | Value<br>type                          | Value      | Test atmosphere | Exposure<br>time | Species | Method                                         |
|-----------------------------------------|----------------------------------------|------------|-----------------|------------------|---------|------------------------------------------------|
| N,N-(m-phenylene)dimalaide<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                                  |
| N,N-Diethyl-p-toluidine<br>613-48-9     | Acute<br>toxicity<br>estimate<br>(ATE) | 3 mg/l     | vapour          |                  |         | Expert judgement                               |
| N,N-dimethyl-o-toluidine<br>609-72-3    | Acute<br>toxicity<br>estimate<br>(ATE) | 0,5 mg/l   | dust/mist       | 4 h              |         | Expert judgement                               |
| 1,4-Naphthalenedione<br>130-15-4        | LC50                                   | 0,046 mg/l | dust/mist       | 4 h              | rat     | OECD Guideline 403 (Acute Inhalation Toxicity) |

**Skin corrosion/irritation:**

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

| Hazardous substances<br>CAS-No.                | Result                     | Exposure<br>time | Species                                                                            | Method                                                                                            |
|------------------------------------------------|----------------------------|------------------|------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|
| N,N-(m-phenylene)dimalaide<br>3006-93-7        | not corrosive              | 60 min           | Human,<br>EpiDermTM SIT<br>(EPI-200),<br>Reconstructed<br>Human<br>Epidermis (RHE) | OECD Guideline 431 (In Vitro Skin Corrosion:<br>Reconstructed Human Epidermis (RHE) Test Method)  |
| N,N-(m-phenylene)dimalaide<br>3006-93-7        | not irritating             | 60 min           | Human,<br>EpiDermTM SIT<br>(EPI-200),<br>Reconstructed<br>Human<br>Epidermis (RHE) | OECD Guideline 439 (In Vitro Skin Irritation:<br>Reconstructed Human Epidermis (RHE) Test Method) |
| Hydroxypropyl<br>methacrylate<br>27813-02-1    | not irritating             | 24 h             | rabbit                                                                             | Draize Test                                                                                       |
| Cumene hydroperoxide<br>80-15-9                | corrosive                  |                  | rabbit                                                                             | Draize Test                                                                                       |
| N,N-Diethyl-p-toluidine<br>613-48-9            | irritating                 | 4 h              | rabbit                                                                             | OECD Guideline 404 (Acute Dermal Irritation / Corrosion)                                          |
| maleic acid<br>110-16-7                        | irritating                 | 24 h             | human                                                                              | Patch Test                                                                                        |
| Acetic acid, 2-<br>phenylhydrazide<br>114-83-0 | not corrosive              |                  | Human,<br>EpiSkinTM<br>(SM),<br>Reconstructed<br>Human<br>Epidermis (RHE)          | OECD Guideline 431 (In Vitro Skin Corrosion:<br>Reconstructed Human Epidermis (RHE) Test Method)  |
| Acetic acid, 2-<br>phenylhydrazide<br>114-83-0 | not irritating             |                  | Human,<br>EpiSkinTM<br>(SM),<br>Reconstructed<br>Human<br>Epidermis (RHE)          | OECD Guideline 439 (In Vitro Skin Irritation:<br>Reconstructed Human Epidermis (RHE) Test Method) |
| 1,4-Naphthalenedione<br>130-15-4               | Category 1C<br>(corrosive) |                  | rabbit                                                                             | OECD Guideline 404 (Acute Dermal Irritation / Corrosion)                                          |

**Serious eye damage/irritation:**

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

| Hazardous substances<br>CAS-No.                | Result                                           | Exposure<br>time | Species                          | Method                                                |
|------------------------------------------------|--------------------------------------------------|------------------|----------------------------------|-------------------------------------------------------|
| N,N-(m-phenylene)dimalleimide<br>3006-93-7     | not irritating                                   |                  | Bovine, cornea,<br>in vitro test | OECD Guideline 437 (BCOP)                             |
| Hydroxypropyl<br>methacrylate<br>27813-02-1    | Category 2B<br>(mildly<br>irritating to<br>eyes) |                  | rabbit                           | Draize Test                                           |
| maleic acid<br>110-16-7                        | highly<br>irritating                             |                  | rabbit                           | OECD Guideline 405 (Acute Eye Irritation / Corrosion) |
| Acetic acid, 2-<br>phenylhydrazide<br>114-83-0 | not irritating                                   |                  | Chicken, eye,<br>isolated        | OECD Guideline 438 (Isolated Chicken Eye Test Method) |

**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                                                                                         |
|------------------------------------------------|-----------------|-------------------------------------------|--------------------------------------------|------------------------------------------------------------------------------------------------|
| N,N-(m-phenylene)dimalleimide<br>3006-93-7     | not sensitising | Mouse local lymphnode<br>assay (LLNA)     | mouse                                      | OECD Guideline 429 (Skin Sensitisation:<br>Local Lymph Node Assay)                             |
| Hydroxypropyl<br>methacrylate<br>27813-02-1    | not sensitising | Mouse local lymphnode<br>assay (LLNA)     | mouse                                      | equivalent or similar to OECD Guideline<br>429 (Skin Sensitisation: Local Lymph<br>Node Assay) |
| Hydroxypropyl<br>methacrylate<br>27813-02-1    | sensitising     | Guinea pig maximisation<br>test           | guinea pig                                 | not specified                                                                                  |
| maleic acid<br>110-16-7                        | sensitising     | Mouse local lymphnode<br>assay (LLNA)     | mouse                                      | OECD Guideline 429 (Skin Sensitisation:<br>Local Lymph Node Assay)                             |
| maleic acid<br>110-16-7                        | sensitising     | Mouse local lymphnode<br>assay (LLNA)     | guinea pig                                 | OECD Guideline 406 (Skin Sensitisation)                                                        |
| Acetic acid, 2-<br>phenylhydrazide<br>114-83-0 | positive        | Direct peptide reactivity<br>assay (DPRA) | cysteine and<br>lysine, in<br>chemico test | OECD Guideline 442C (Direct Peptide<br>Reactivity Assay (DPRA))                                |
| Acetic acid, 2-<br>phenylhydrazide<br>114-83-0 | positive        | Activation of keratinocytes               | human<br>keratinocytes,<br>in vitro test   | OECD Guideline 442D (ARE-Nrf2<br>Luciferase Test Method)                                       |
| Acetic acid, 2-<br>phenylhydrazide<br>114-83-0 | positive        | activation of dendritic cells             | human<br>monocytes, in<br>vitro test       | OECD Guideline 442E (H-CLAT:<br>Human Cell Line Activation Test)                               |
| 1,4-Naphthalenedione<br>130-15-4               | sensitising     | not specified                             | guinea pig                                 | not specified                                                                                  |

**Germ cell mutagenicity:**

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

| Hazardous substances<br>CAS-No.                | Result   | Type of study /<br>Route of<br>administration          | Metabolic<br>activation /<br>Exposure time | Species | Method                                                                   |
|------------------------------------------------|----------|--------------------------------------------------------|--------------------------------------------|---------|--------------------------------------------------------------------------|
| N,N-(m-phenylene)dimalimide<br>3006-93-7       | negative | bacterial reverse<br>mutation assay (e.g<br>Ames test) | with and without                           |         | OECD Guideline 471<br>(Bacterial Reverse Mutation<br>Assay)              |
| N,N-(m-phenylene)dimalimide<br>3006-93-7       | negative | in vitro mammalian<br>chromosome<br>aberration test    | with and without                           |         | OECD Guideline 473 (In vitro<br>Mammalian Chromosome<br>Aberration Test) |
| N,N-(m-phenylene)dimalimide<br>3006-93-7       | negative | mammalian cell<br>gene mutation assay                  | with and without                           |         | OECD Guideline 476 (In vitro<br>Mammalian Cell Gene<br>Mutation Test)    |
| Hydroxypropyl<br>methacrylate<br>27813-02-1    | negative | bacterial reverse<br>mutation assay (e.g<br>Ames test) | with and without                           |         | OECD Guideline 471<br>(Bacterial Reverse Mutation<br>Assay)              |
| Hydroxypropyl<br>methacrylate<br>27813-02-1    | positive | in vitro mammalian<br>chromosome<br>aberration test    | with and without                           |         | Chromosome Aberration Test                                               |
| Hydroxypropyl<br>methacrylate<br>27813-02-1    | negative | mammalian cell<br>gene mutation assay                  | with and without                           |         | OECD Guideline 476 (In vitro<br>Mammalian Cell Gene<br>Mutation Test)    |
| Cumene hydroperoxide<br>80-15-9                | positive | bacterial reverse<br>mutation assay (e.g<br>Ames test) | without                                    |         | OECD Guideline 471<br>(Bacterial Reverse Mutation<br>Assay)              |
| maleic acid<br>110-16-7                        | negative | bacterial reverse<br>mutation assay (e.g<br>Ames test) | no data                                    |         | Ames Test                                                                |
| maleic acid<br>110-16-7                        | negative | mammalian cell<br>gene mutation assay                  | with and without                           |         | OECD Guideline 476 (In vitro<br>Mammalian Cell Gene<br>Mutation Test)    |
| Acetic acid, 2-<br>phenylhydrazide<br>114-83-0 | positive | bacterial reverse<br>mutation assay (e.g<br>Ames test) | with and without                           |         | OECD Guideline 471<br>(Bacterial Reverse Mutation<br>Assay)              |
| Acetic acid, 2-<br>phenylhydrazide<br>114-83-0 | negative | in vitro mammalian<br>cell micronucleus<br>test        | with and without                           |         | OECD Guideline 487 (In vitro<br>Mammalian Cell<br>Micronucleus Test)     |

**Carcinogenicity**

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

| Hazardous components<br>CAS-No.                | Result           | Route of<br>application | Exposure<br>time /<br>Frequency<br>of treatment | Species | Sex         | Method                                                                      |
|------------------------------------------------|------------------|-------------------------|-------------------------------------------------|---------|-------------|-----------------------------------------------------------------------------|
| Hydroxypropyl<br>methacrylate<br>27813-02-1    | not carcinogenic | inhalation              | 2 y<br>6 h/d, 5 d/w                             | rat     | male        | equivalent or similar<br>OECD Guideline 451<br>(Carcinogenicity<br>Studies) |
| maleic acid<br>110-16-7                        | not carcinogenic | oral: feed              | 2 y<br>daily                                    | rat     | male/female | OECD Guideline 451<br>(Carcinogenicity<br>Studies)                          |
| Acetic acid, 2-<br>phenylhydrazide<br>114-83-0 | carcinogenic     | oral: drinking<br>water | continuous                                      | mouse   | male/female | not specified                                                               |

**Reproductive toxicity:**

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

| Hazardous substances<br>CAS-No.             | Result / Value                            | Test type                   | Route of<br>application | Species | Method                                                                                                                                  |
|---------------------------------------------|-------------------------------------------|-----------------------------|-------------------------|---------|-----------------------------------------------------------------------------------------------------------------------------------------|
| N,N-(m-phenylene)dimalimide<br>3006-93-7    | NOAEL P 240 mg/kg<br>NOAEL F1 240 mg/kg   | screening                   | oral: gavage            | rat     | OECD Guideline 422<br>(Combined Repeated Dose<br>Toxicity Study with the<br>Reproduction /<br>Developmental Toxicity<br>Screening Test) |
| Hydroxypropyl<br>methacrylate<br>27813-02-1 | NOAEL P 300 mg/kg<br>NOAEL F1 1.000 mg/kg | screening                   | oral: gavage            | rat     | OECD Guideline 422<br>(Combined Repeated Dose<br>Toxicity Study with the<br>Reproduction /<br>Developmental Toxicity<br>Screening Test) |
| Hydroxypropyl<br>methacrylate<br>27813-02-1 | NOAEL P 400 mg/kg<br>NOAEL F1 400 mg/kg   | two-<br>generation<br>study | oral: gavage            | rat     | OECD Guideline 416 (Two-<br>Generation Reproduction<br>Toxicity Study)                                                                  |
| maleic acid<br>110-16-7                     | NOAEL F1 150 mg/kg<br>NOAEL F2 55 mg/kg   | Two<br>generation<br>study  | oral: gavage            | rat     | OECD Guideline 416 (Two-<br>Generation Reproduction<br>Toxicity Study)                                                                  |

**STOT-single exposure:**

No data available.

**STOT-repeated exposure:**

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

| Hazardous substances<br>CAS-No.             | Result / Value        | Route of<br>application | Exposure time /<br>Frequency of<br>treatment | Species | Method                                                                                                                                  |
|---------------------------------------------|-----------------------|-------------------------|----------------------------------------------|---------|-----------------------------------------------------------------------------------------------------------------------------------------|
| N,N-(m-phenylene)dimalimide<br>3006-93-7    | NOAEL 15 mg/kg        | oral: gavage            | 42-52 d<br>daily                             | rat     | OECD Guideline 422<br>(Combined Repeated<br>Dose Toxicity Study with<br>the Reproduction /<br>Developmental Toxicity<br>Screening Test) |
| Hydroxypropyl<br>methacrylate<br>27813-02-1 | NOAEL 300 mg/kg       | oral: gavage            | 49 d<br>daily                                | rat     | OECD Guideline 422<br>(Combined Repeated<br>Dose Toxicity Study with<br>the Reproduction /<br>Developmental Toxicity<br>Screening Test) |
| Hydroxypropyl<br>methacrylate<br>27813-02-1 | NOAEL 0,352 mg/l      | inhalation              | 90 d<br>6 h/d, 5 d/w                         | rat     | OECD Guideline 413<br>(Subchronic Inhalation<br>Toxicity: 90-Day)                                                                       |
| Cumene hydroperoxide<br>80-15-9             |                       | inhalation:<br>aerosol  | 6 h/d<br>5 d/w                               | rat     | not specified                                                                                                                           |
| maleic acid<br>110-16-7                     | NOAEL $\geq$ 40 mg/kg | oral: feed              | 90 d<br>daily                                | rat     | OECD Guideline 408<br>(Repeated Dose 90-Day<br>Oral Toxicity in Rodents)                                                                |

**Aspiration hazard:**

No data available.

**11.2 Information on other hazards**

not applicable



**SECTION 12: Ecological information****General ecological information:**

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

**12.1. Toxicity****Toxicity (Fish):**

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

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

| Hazardous substances<br>CAS-No.          | Value<br>type | Value      | Exposure time | Species                  | Method                                            |
|------------------------------------------|---------------|------------|---------------|--------------------------|---------------------------------------------------|
| 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,<br>Acute Toxicity Test) |
| N,N-Diethyl-p-toluidine<br>613-48-9      | LC50          | 78,62 mg/l | 96 h          | Danio rerio              | OECD Guideline 203 (Fish,<br>Acute Toxicity Test) |
| maleic acid<br>110-16-7                  | LC50          | > 245 mg/l | 48 h          | Leuciscus idus           | DIN 38412-15                                      |
| N,N-dimethyl-o-toluidine<br>609-72-3     | LC50          | 46 mg/l    | 96 h          | Pimephales promelas      | OECD Guideline 203 (Fish,<br>Acute Toxicity Test) |
| 1,4-Naphthalenedione<br>130-15-4         | LC50          | 0,045 mg/l | 96 h          | Oryzias latipes          | OECD Guideline 203 (Fish,<br>Acute Toxicity Test) |

**Toxicity (aquatic invertebrates):**

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

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

| Hazardous substances<br>CAS-No.            | Value<br>type | Value      | Exposure time | Species       | Method                                                           |
|--------------------------------------------|---------------|------------|---------------|---------------|------------------------------------------------------------------|
| N,N-(m-phenylene)dimalimide<br>3006-93-7   | EC50          | 31,6 mg/l  | 48 h          | Daphnia magna | OECD Guideline 202<br>(Daphnia sp. Acute<br>Immobilisation Test) |
| Hydroxypropyl methacrylate<br>27813-02-1   | EC50          | > 143 mg/l | 48 h          | Daphnia magna | OECD Guideline 202<br>(Daphnia sp. Acute<br>Immobilisation Test) |
| Cumene hydroperoxide<br>80-15-9            | EC50          | 18,84 mg/l | 48 h          | Daphnia magna | OECD Guideline 202<br>(Daphnia sp. Acute<br>Immobilisation Test) |
| N,N-Diethyl-p-toluidine<br>613-48-9        | EC50          | 10,34 mg/l | 48 h          | Daphnia magna | OECD Guideline 202<br>(Daphnia sp. Acute<br>Immobilisation Test) |
| maleic acid<br>110-16-7                    | EC50          | 42,81 mg/l | 48 h          | Daphnia magna | OECD Guideline 202<br>(Daphnia sp. Acute<br>Immobilisation Test) |
| Acetic acid, 2-phenylhydrazide<br>114-83-0 | EC50          | 1,1 mg/l   | 48 h          | Daphnia magna | OECD Guideline 202<br>(Daphnia sp. Acute<br>Immobilisation Test) |
| 1,4-Naphthalenedione<br>130-15-4           | EC50          | 0,026 mg/l | 48 h          | Daphnia magna | OECD Guideline 202<br>(Daphnia sp. Acute<br>Immobilisation Test) |

**Chronic toxicity (aquatic invertebrates):**

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

| Hazardous substances<br>CAS-No.          | Value<br>type | Value     | Exposure time | Species       | Method                                         |
|------------------------------------------|---------------|-----------|---------------|---------------|------------------------------------------------|
| Hydroxypropyl methacrylate<br>27813-02-1 | NOEC          | 45,2 mg/l | 21 d          | Daphnia magna | OECD 211 (Daphnia<br>magna, Reproduction Test) |

|                         |      |         |      |               |                  |
|-------------------------|------|---------|------|---------------|------------------|
| maleic acid<br>110-16-7 | NOEC | 10 mg/l | 21 d | Daphnia magna | other guideline: |
|-------------------------|------|---------|------|---------------|------------------|

**Toxicity (Algae):**

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

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

| Hazardous substances<br>CAS-No.            | Value<br>type | Value       | Exposure time | Species                                                              | Method                                            |
|--------------------------------------------|---------------|-------------|---------------|----------------------------------------------------------------------|---------------------------------------------------|
| N,N-(m-phenylene)dimalimide<br>3006-93-7   | ErC50         | 67,898 mg/l | 72 h          | Desmodesmus subspicatus                                              | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| N,N-(m-phenylene)dimalimide<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<br>(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<br>(reported as Scenedesmus subspicatus)     | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| N,N-Diethyl-p-toluidine<br>613-48-9        | EC50          | 23,69 mg/l  | 72 h          | Raphidocelis subcapitata (new name: Pseudokirchneriella subcapitata) | 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) |
| Acetic acid, 2-phenylhydrazide<br>114-83-0 | EC50          | 0,258 mg/l  | 72 h          | Pseudokirchneriella subcapitata                                      | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| Acetic acid, 2-phenylhydrazide<br>114-83-0 | NOEC          | 0,012 mg/l  | 72 h          | Pseudokirchneriella subcapitata                                      | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| 1,4-Naphthalenedione<br>130-15-4           | NOEC          | 0,07 mg/l   | 72 h          | Pseudokirchneriella subcapitata                                      | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| 1,4-Naphthalenedione<br>130-15-4           | EC50          | 0,42 mg/l   | 72 h          | Pseudokirchneriella subcapitata                                      | OECD Guideline 201 (Alga, Growth Inhibition Test) |

**Toxicity (microorganisms):**

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

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

| Hazardous substances<br>CAS-No.          | Value<br>type | Value      | Exposure time | Species                                             | Method                                                             |
|------------------------------------------|---------------|------------|---------------|-----------------------------------------------------|--------------------------------------------------------------------|
| 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                                       | not specified                                                      |
| maleic acid<br>110-16-7                  | EC10          | 44,6 mg/l  | 18 h          | Pseudomonas putida                                  | DIN 38412, part 8 (Pseudomonas Zellvermehrungshemm-Test)           |
| 1,4-Naphthalenedione<br>130-15-4         | EC50          | 5,94 mg/l  | 3 h           | activated sludge of a predominantly domestic sewage | OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test) |

**12.2. Persistence and degradability**

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

| Hazardous substances<br>CAS-No.            | Result                     | Test type     | Degradability | Exposure<br>time | Method                                                                      |
|--------------------------------------------|----------------------------|---------------|---------------|------------------|-----------------------------------------------------------------------------|
| N,N-(m-phenylene)dimalimide<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)           |
| N,N-Diethyl-p-toluidine<br>613-48-9        | not readily biodegradable. | not specified | 1 %           | 28 day           | OECD Guideline 301 C (Ready Biodegradability: Modified MITI Test (I))       |
| maleic acid<br>110-16-7                    | readily biodegradable      | aerobic       | 97,08 %       | 28 d             | OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test)           |
| N,N-dimethyl-o-toluidine<br>609-72-3       | not readily biodegradable. | aerobic       | 1 %           | 14 d             | other guideline:                                                            |
| Acetic acid, 2-phenylhydrazide<br>114-83-0 | not readily biodegradable. | aerobic       | 39 %          | 28 d             | OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test)           |
| 1,4-Naphthalenedione<br>130-15-4           | not readily biodegradable. | aerobic       | 0 %           | 28 d             | OECD Guideline 301 F (Ready Biodegradability: Manometric Respirometry Test) |

### 12.3. Bioaccumulative potential

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

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

#### 12.4. Mobility in soil

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

| Hazardous substances<br>CAS-No.            | LogPow | Temperature | Method                                                                             |
|--------------------------------------------|--------|-------------|------------------------------------------------------------------------------------|
| N,N-(m-phenylene)dimalimide<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)        |
| N,N-Diethyl-p-toluidine<br>613-48-9        | 3,7    |             | QSAR (Quantitative Structure Activity Relationship)                                |
| 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   |             | QSAR (Quantitative Structure Activity Relationship)                                |
| 1,4-Naphthalenedione<br>130-15-4           | 1,71   |             | not specified                                                                      |

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

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

| Hazardous substances<br>CAS-No.            | PBT / vPvB                                                                                                            |
|--------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|
| N,N-(m-phenylene)dimalimide<br>3006-93-7   | 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. |
| Acetic acid, 2-phenylhydrazide<br>114-83-0 | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria. |
| 1,4-Naphthalenedione<br>130-15-4           | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria. |

#### 12.6. Endocrine disrupting properties

not applicable

#### 12.7. Other adverse effects

No data available.

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

**Product disposal:**

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

Dispose of in accordance with local and national regulations.

**Disposal of uncleaned packages:**

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

**Waste code**

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

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

**SECTION 14: Transport information****14.1. UN number or ID number**

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

**14.2. UN proper shipping name**

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

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

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

**14.4. Packing group**

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

**14.5. Environmental hazards**

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

**14.6. Special precautions for user**

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

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

**14.7. Maritime transport in bulk according to IMO instruments**

not applicable

## SECTION 15: Regulatory information

**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

|                                                                |                |
|----------------------------------------------------------------|----------------|
| Ozone Depleting Substance (ODS) (Regulation (EC) No 2024/590): | Not applicable |
| Prior Informed Consent (PIC) (Regulation (EU) No 649/2012):    | Not applicable |
| Persistent organic pollutants (Regulation (EU) 2019/1021):     | Not applicable |
| VOC content<br>(2010/75/EC)                                    | < 3 %          |

**15.2. Chemical safety assessment**

A chemical safety assessment has not been carried out.

## SECTION 16: Other information

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

H242 Heating may cause a fire.  
H301 Toxic if swallowed.  
H302 Harmful if swallowed.  
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.

|             |                                                                                                                   |
|-------------|-------------------------------------------------------------------------------------------------------------------|
| ED:         | Substance identified as having endocrine disrupting properties                                                    |
| EU OEL:     | Substance with a Union workplace exposure limit                                                                   |
| EU EXPLD 1: | Substance listed in Annex I, Reg (EC) No. 2019/1148                                                               |
| EU EXPLD 2  | Substance listed in Annex II, Reg (EC) No. 2019/1148                                                              |
| SVHC:       | Substance of very high concern (REACH Candidate List)                                                             |
| PBT:        | Substance fulfilling persistent, bioaccumulative and toxic criteria                                               |
| PBT/vPvB:   | Substance fulfilling persistent, bioaccumulative and toxic plus very persistent and very bioaccumulative criteria |
| vPvB:       | Substance fulfilling very persistent and very bioaccumulative criteria                                            |

### Further information:

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