



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

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LOCTITE AA 326

SDS No. : 168434  
V006.0

Revision: 12.06.2019

printing date: 03.07.2020

Replaces version from: 11.10.2016

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

#### 1.1. Product identifier

LOCTITE AA 326

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Intended use:

Acrylic Adhesive

#### 1.3. Details of the supplier of the safety data sheet

Henkel Ltd

Wood Lane End

HP2 4RQ Hemel Hempstead

Great Britain

Phone: +44 1442 278000

Fax-no.: +44 1442 278071

ua-productsafety.uk@henkel.com

#### 1.4. Emergency telephone number

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

### SECTION 2: Hazards identification

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

##### Classification (CLP):

|                                                         |            |
|---------------------------------------------------------|------------|
| Skin irritation                                         | Category 2 |
| H315 Causes skin irritation.                            |            |
| Serious eye irritation                                  | Category 2 |
| H319 Causes serious eye irritation.                     |            |
| Skin sensitizer                                         | Category 1 |
| H317 May cause an allergic skin reaction.               |            |
| Specific target organ toxicity - single exposure        | Category 3 |
| H335 May cause respiratory irritation.                  |            |
| Target organ: respiratory tract irritation              |            |
| Chronic hazards to the aquatic environment              | Category 3 |
| H412 Harmful to aquatic life with long lasting effects. |            |

#### 2.2. Label elements

##### Label elements (CLP):

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

2-Hydroxyethyl methacrylate

Hydroxypropyl methacrylate  
Acrylic acid

Acetic acid, 2-phenylhydrazide

**Signal word:**

Warning

**Hazard statement:**H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H319 Causes serious eye irritation.  
H335 May cause respiratory irritation.  
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 waste and residues in accordance with local authority requirements\*\*\*

**Precautionary statement:  
Prevention**P273 Avoid release to the environment.  
P280 Wear protective gloves.  
P261 Avoid breathing vapors.**Precautionary statement:  
Response**P333+P313 If skin irritation or rash occurs: Get medical advice/attention.  
P337+P313 If eye irritation persists: Get medical advice/attention.  
P302+P352 IF ON SKIN: Wash with plenty of soap and water.**2.3. Other hazards**

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:**

Acrylate adhesive

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

| Hazardous components<br>CAS-No.            | EC Number<br>REACH-Reg No.    | content    | Classification                                                                                                                                                                                                               |
|--------------------------------------------|-------------------------------|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2-Hydroxyethyl methacrylate<br>868-77-9    | 212-782-2<br>01-2119490169-29 | 20- 40 %   | Skin Irrit. 2<br>H315<br>Skin Sens. 1<br>H317<br>Eye Irrit. 2<br>H319                                                                                                                                                        |
| Isobornyl methacrylate<br>7534-94-3        | 231-403-1<br>01-2119886505-27 | 10- 20 %   | Aquatic Chronic 3<br>H412                                                                                                                                                                                                    |
| Hydroxypropyl methacrylate<br>27813-02-1   | 248-666-3<br>01-2119490226-37 | 1- < 5 %   | Skin Sens. 1<br>H317<br>Eye Irrit. 2<br>H319                                                                                                                                                                                 |
| Acrylic acid<br>79-10-7                    | 201-177-9<br>01-2119452449-31 | 1- < 3 %   | STOT SE 3<br>H335<br>Aquatic Chronic 2<br>H411<br>Aquatic Acute 1<br>H400<br>Acute Tox. 4; Inhalation<br>H332<br>Acute Tox. 4; Oral<br>H302<br>Flam. Liq. 3<br>H226<br>Skin Corr. 1A<br>H314<br>Acute Tox. 4; Dermal<br>H312 |
| Cumene hydroperoxide<br>80-15-9            | 201-254-7<br>01-2119475796-19 | 0,1- < 1 % | Acute Tox. 4; Dermal<br>H312<br>STOT RE 2<br>H373<br>Acute Tox. 4; Oral<br>H302<br>Org. Perox. E<br>H242<br>Acute Tox. 3; Inhalation<br>H331<br>Aquatic Chronic 2<br>H411<br>Skin Corr. 1B<br>H314                           |
| Methacrylic acid<br>79-41-4                | 201-204-4<br>01-2119463884-26 | 0,1- < 1 % | Acute Tox. 4<br>H302<br>Acute Tox. 3<br>H311<br>Acute Tox. 4<br>H332<br>Skin Corr. 1A<br>H314<br>Eye Dam. 1<br>H318<br>STOT SE 3<br>H335                                                                                     |
| 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                                                                      |

For full text of the H - statements and other abbreviations see section 16 "Other information".  
Substances without classification may have community workplace exposure limits available.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### Inhalation:

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

#### Skin contact:

Rinse with running water and soap.

Obtain medical attention if irritation persists.

#### Eye contact:

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

#### Ingestion:

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

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

SKIN: Redness, inflammation.

SKIN: Rash, Urticaria.

EYE: Irritation, conjunctivitis.

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

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

See section: Description of first aid measures

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

#### Suitable extinguishing media:

Carbon dioxide, foam, powder

#### 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.

Sulphur oxides

### 5.3. Advice for firefighters

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

#### Additional information:

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

## SECTION 6: Accidental release measures

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

Avoid contact with skin and eyes.

Ensure adequate ventilation.

Wear protective equipment.

### 6.2. Environmental precautions

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

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

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

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

Dispose of contaminated material as waste according to Section 13.

**6.4. Reference to other sections**

See advice in section 8

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

Use only in well-ventilated areas.

Avoid skin and eye contact.

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

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)**

Acrylic Adhesive

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Occupational Exposure Limits

Valid for  
Great Britain

| Ingredient [Regulated substance]                              | ppm | mg/m <sup>3</sup> | Value type                        | Short term exposure limit category / Remarks | Regulatory list |
|---------------------------------------------------------------|-----|-------------------|-----------------------------------|----------------------------------------------|-----------------|
| Acrylic acid<br>79-10-7<br>[ACRYLIC ACID (PROP-2-ENOIC ACID)] | 10  | 29                | Time Weighted Average (TWA):      | Indicative                                   | ECTLV           |
| Acrylic acid<br>79-10-7<br>[ACRYLIC ACID (PROP-2-ENOIC ACID)] | 20  | 59                | Short Term Exposure Limit (STEL): | Indicative                                   | ECTLV           |
| Acrylic acid<br>79-10-7<br>[ACRYLIC ACID]                     | 20  | 59                | Short Term Exposure Limit (STEL): |                                              | EH40 WEL        |
| Acrylic acid<br>79-10-7<br>[ACRYLIC ACID]                     | 10  | 29                | Time Weighted Average (TWA):      |                                              | EH40 WEL        |
| Methacrylic acid<br>79-41-4<br>[METHACRYLIC ACID]             | 40  | 143               | Short Term Exposure Limit (STEL): |                                              | EH40 WEL        |
| Methacrylic acid<br>79-41-4<br>[METHACRYLIC ACID]             | 20  | 72                | 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 |
|---------------------------------------------------------------|-----|-------------------|-----------------------------------|----------------------------------------------|-----------------|
| Acrylic acid<br>79-10-7<br>[ACRYLIC ACID (PROP-2-ENOIC ACID)] | 10  | 29                | Time Weighted Average (TWA):      | Indicative                                   | ECTLV           |
| Acrylic acid<br>79-10-7<br>[ACRYLIC ACID (PROP-2-ENOIC ACID)] | 20  | 59                | Short Term Exposure Limit (STEL): | Indicative                                   | ECTLV           |
| Acrylic acid<br>79-10-7<br>[ACRYLIC ACID]                     | 20  | 59                | Short Term Exposure Limit (STEL): | 1 minute Indicative OELV                     | IR_OEL          |
| Acrylic acid<br>79-10-7<br>[ACRYLIC ACID]                     | 10  | 29                | Time Weighted Average (TWA):      | Indicative OELV                              | IR_OEL          |
| Methacrylic acid<br>79-41-4<br>[METHACRYLIC ACID]             | 20  | 70                | Time Weighted Average (TWA):      |                                              | IR_OEL          |
| Methacrylic acid<br>79-41-4<br>[METHACRYLIC ACID]             | 40  | 140               | Short Term Exposure Limit (STEL): | 15 minutes                                   | IR_OEL          |

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

| Name on list                                                            | Environmental<br>Compartment       | Exposure<br>period | Value            |     |                |        | Remarks |
|-------------------------------------------------------------------------|------------------------------------|--------------------|------------------|-----|----------------|--------|---------|
|                                                                         |                                    |                    | mg/l             | ppm | mg/kg          | others |         |
| 2-Hydroxyethyl methacrylate<br>868-77-9                                 | aqua<br>(freshwater)               |                    | 0,482 mg/l       |     |                |        |         |
| 2-Hydroxyethyl methacrylate<br>868-77-9                                 | aqua (marine<br>water)             |                    | 0,482 mg/l       |     |                |        |         |
| 2-Hydroxyethyl methacrylate<br>868-77-9                                 | sewage<br>treatment plant<br>(STP) |                    | 10 mg/l          |     |                |        |         |
| 2-Hydroxyethyl methacrylate<br>868-77-9                                 | aqua<br>(intermittent<br>releases) |                    | 1 mg/l           |     |                |        |         |
| 2-Hydroxyethyl methacrylate<br>868-77-9                                 | sediment<br>(freshwater)           |                    |                  |     | 3,79 mg/kg     |        |         |
| 2-Hydroxyethyl methacrylate<br>868-77-9                                 | sediment<br>(marine water)         |                    |                  |     | 3,79 mg/kg     |        |         |
| 2-Hydroxyethyl methacrylate<br>868-77-9                                 | Soil                               |                    |                  |     | 0,476<br>mg/kg |        |         |
| 2-Hydroxyethyl methacrylate<br>868-77-9                                 | Predator                           |                    |                  |     |                |        |         |
| Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl<br>methacrylate<br>7534-94-3 | aqua<br>(freshwater)               |                    | 4,66 µg/l        |     |                |        |         |
| Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl<br>methacrylate<br>7534-94-3 | Soil                               |                    |                  |     | 0,118<br>mg/kg |        |         |
| Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl<br>methacrylate<br>7534-94-3 | sewage<br>treatment plant<br>(STP) |                    | 2,45 mg/l        |     |                |        |         |
| Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl<br>methacrylate<br>7534-94-3 | sediment<br>(freshwater)           |                    |                  |     | 0,604<br>mg/kg |        |         |
| Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl<br>methacrylate<br>7534-94-3 | aqua<br>(intermittent<br>releases) |                    | 0,0179<br>mg/l   |     |                |        |         |
| Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl<br>methacrylate<br>7534-94-3 | aqua (marine<br>water)             |                    | 0,000466<br>mg/l |     |                |        |         |
| Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl<br>methacrylate<br>7534-94-3 | sediment<br>(marine water)         |                    |                  |     | 0,06 mg/kg     |        |         |
| 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 |        |         |
| Acrylic acid<br>79-10-7                                                 | aqua<br>(freshwater)               |                    | 0,003 mg/l       |     |                |        |         |
| Acrylic acid<br>79-10-7                                                 | aqua (marine<br>water)             |                    | 0,0003<br>mg/l   |     |                |        |         |
| Acrylic acid<br>79-10-7                                                 | aqua<br>(intermittent<br>releases) |                    | 0,0013<br>mg/l   |     |                |        |         |
| Acrylic acid<br>79-10-7                                                 | sewage<br>treatment plant<br>(STP) |                    | 0,9 mg/l         |     |                |        |         |

|                                                            |                                    |  |                 |  |                  |  |  |
|------------------------------------------------------------|------------------------------------|--|-----------------|--|------------------|--|--|
| Acrylic acid<br>79-10-7                                    | sediment<br>(freshwater)           |  |                 |  | 0,0236<br>mg/kg  |  |  |
| Acrylic acid<br>79-10-7                                    | sediment<br>(marine water)         |  |                 |  | 0,00236<br>mg/kg |  |  |
| Acrylic acid<br>79-10-7                                    | Soil                               |  |                 |  | 1 mg/kg          |  |  |
| Acrylic acid<br>79-10-7                                    | oral                               |  |                 |  | 0,03 g/kg        |  |  |
| Acrylic acid<br>79-10-7                                    | Predator                           |  |                 |  | 0,03 g/kg        |  |  |
| Acrylic acid<br>79-10-7                                    | Air                                |  |                 |  |                  |  |  |
| .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 (marine<br>water)             |  | 0,00031<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 | Sewage<br>treatment plant          |  | 0,35 mg/l       |  |                  |  |  |
| .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  |  |  |
| Methacrylic acid<br>79-41-4                                | aqua<br>(freshwater)               |  | 0,82 mg/l       |  |                  |  |  |
| Methacrylic acid<br>79-41-4                                | aqua (marine<br>water)             |  | 0,82 mg/l       |  |                  |  |  |
| Methacrylic acid<br>79-41-4                                | sewage<br>treatment plant<br>(STP) |  | 10 mg/l         |  |                  |  |  |
| Methacrylic acid<br>79-41-4                                | aqua<br>(intermittent<br>releases) |  | 0,82 mg/l       |  |                  |  |  |
| Methacrylic acid<br>79-41-4                                | Soil                               |  |                 |  | 1,2 mg/kg        |  |  |

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

| Name on list                                                         | Application Area   | Route of Exposure | Health Effect                             | Exposure Time | Value       | Remarks |
|----------------------------------------------------------------------|--------------------|-------------------|-------------------------------------------|---------------|-------------|---------|
| 2-Hydroxyethyl methacrylate<br>868-77-9                              | Workers            | dermal            | Long term exposure - systemic effects     |               | 1,3 mg/kg   |         |
| 2-Hydroxyethyl methacrylate<br>868-77-9                              | Workers            | Inhalation        | Long term exposure - systemic effects     |               | 4,9 mg/m3   |         |
| 2-Hydroxyethyl methacrylate<br>868-77-9                              | General population | dermal            | Long term exposure - systemic effects     |               | 0,83 mg/kg  |         |
| 2-Hydroxyethyl methacrylate<br>868-77-9                              | General population | Inhalation        | Long term exposure - systemic effects     |               | 2,9 mg/m3   |         |
| 2-Hydroxyethyl methacrylate<br>868-77-9                              | General population | oral              | Long term exposure - systemic effects     |               | 0,83 mg/kg  |         |
| Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate<br>7534-94-3 | Workers            | dermal            | Long term exposure - systemic effects     |               | 1,04 mg/kg  |         |
| Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate<br>7534-94-3 | General population | dermal            | Long term exposure - systemic effects     |               | 0,625 mg/kg |         |
| Methacrylic acid, monoester with propane-1,2-diol<br>27813-02-1      | Workers            | dermal            | Long term exposure - systemic effects     |               | 4,2 mg/kg   |         |
| Methacrylic acid, monoester with propane-1,2-diol<br>27813-02-1      | Workers            | Inhalation        | Long term exposure - systemic effects     |               | 14,7 mg/m3  |         |
| Methacrylic acid, monoester with propane-1,2-diol<br>27813-02-1      | General population | dermal            | Long term exposure - systemic effects     |               | 2,5 mg/kg   |         |
| Methacrylic acid, monoester with propane-1,2-diol<br>27813-02-1      | General population | Inhalation        | Long term exposure - systemic effects     |               | 8,8 mg/m3   |         |
| Methacrylic acid, monoester with propane-1,2-diol<br>27813-02-1      | General population | oral              | Long term exposure - systemic effects     |               | 2,5 mg/kg   |         |
| Acrylic acid<br>79-10-7                                              | Workers            | inhalation        | Long term exposure - local effects        |               | 30 mg/m3    |         |
| Acrylic acid<br>79-10-7                                              | Workers            | inhalation        | Acute/short term exposure - local effects |               | 30 mg/m3    |         |
| Acrylic acid<br>79-10-7                                              | Workers            | dermal            | Acute/short term exposure - local effects |               | 1 mg/cm2    |         |
| Acrylic acid<br>79-10-7                                              | General population | dermal            | Acute/short term exposure - local effects |               | 1 mg/cm2    |         |
| Acrylic acid<br>79-10-7                                              | General population | inhalation        | Acute/short term exposure - local effects |               | 3,6 mg/m3   |         |
| Acrylic acid<br>79-10-7                                              | General population | inhalation        | Long term exposure - local effects        |               | 3,6 mg/m3   |         |
| .alpha.,.alpha.-Dimethylbenzyl hydroperoxide<br>80-15-9              | Workers            | inhalation        | Long term exposure - systemic effects     |               | 6 mg/m3     |         |
| Methacrylic acid<br>79-41-4                                          | Workers            | Inhalation        | Long term exposure - local effects        |               | 88 mg/m3    |         |
| Methacrylic acid<br>79-41-4                                          | Workers            | Inhalation        | Long term exposure - systemic effects     |               | 29,6 mg/m3  |         |
| Methacrylic acid<br>79-41-4                                          | Workers            | dermal            | Long term exposure - systemic effects     |               | 4,25 mg/kg  |         |
| Methacrylic acid<br>79-41-4                                          | General population | Inhalation        | Long term exposure - local effects        |               | 6,55 mg/m3  |         |
| Methacrylic acid<br>79-41-4                                          | General population | Inhalation        | Long term exposure -                      |               | 6,3 mg/m3   |         |

|                             |                       |        |                                             |  |            |  |
|-----------------------------|-----------------------|--------|---------------------------------------------|--|------------|--|
|                             |                       |        | systemic effects                            |  |            |  |
| Methacrylic acid<br>79-41-4 | General<br>population | dermal | Long term<br>exposure -<br>systemic effects |  | 2,55 mg/kg |  |

**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**

Appearance

liquid

transparent

Amber

Odor

no valuation

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

&gt; 149,0 °C (&gt; 300.2 °F)

Flash point

&gt; 93,3 °C (&gt; 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<br>(26,6 °C (79.9 °F))       | < 13 mbar                          |
| Relative vapour density:                     | No data available / Not applicable |
| Density<br>()                                | 1,0 g/cm <sup>3</sup>              |
| Bulk density                                 | No data available / Not applicable |
| Solubility                                   | No data available / Not applicable |
| Solubility (qualitative)<br>(Solvent: Water) | Slight                             |
| 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

Reaction with strong acids.

Reacts with strong oxidants.

## 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.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### Acute oral toxicity:

May cause irritation to the digestive tract.

| Hazardous substances<br>CAS-No.            | Value<br>type | Value         | Species | Method                                   |
|--------------------------------------------|---------------|---------------|---------|------------------------------------------|
| 2-Hydroxyethyl methacrylate<br>868-77-9    | LD50          | > 5.000 mg/kg | rat     | not specified                            |
| Isobornyl methacrylate<br>7534-94-3        | LD50          | 3.160 mg/kg   | rat     | not specified                            |
| Hydroxypropyl methacrylate<br>27813-02-1   | LD50          | > 2.000 mg/kg | rat     | OECD Guideline 401 (Acute Oral Toxicity) |
| Acrylic acid<br>79-10-7                    | LD50          | 1.500 mg/kg   | rat     | BASF Test                                |
| Cumene hydroperoxide<br>80-15-9            | LD50          | 382 mg/kg     | rat     | other guideline:                         |
| Methacrylic acid<br>79-41-4                | LD50          | 1.320 mg/kg   | rat     | OECD Guideline 401 (Acute Oral Toxicity) |
| Acetic acid, 2-phenylhydrazide<br>114-83-0 | LD50          | 270 mg/kg     | rat     | not specified                            |

#### Acute dermal toxicity:

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

| Hazardous substances<br>CAS-No.          | Value<br>type                 | Value             | Species | Method                                     |
|------------------------------------------|-------------------------------|-------------------|---------|--------------------------------------------|
| 2-Hydroxyethyl methacrylate<br>868-77-9  | LD50                          | > 5.000 mg/kg     | rabbit  | not specified                              |
| Isobornyl methacrylate<br>7534-94-3      | LD50                          | > 3.000 mg/kg     | rabbit  | not specified                              |
| Hydroxypropyl methacrylate<br>27813-02-1 | LD50                          | > 5.000 mg/kg     | rabbit  | not specified                              |
| Acrylic acid<br>79-10-7                  | Acute toxicity estimate (ATE) | 1.100 mg/kg       |         | Expert judgement                           |
| Acrylic acid<br>79-10-7                  | LD50                          | > 2.000 mg/kg     | rabbit  | OECD Guideline 402 (Acute Dermal Toxicity) |
| 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                           |
| Methacrylic acid<br>79-41-4              | LD50                          | 500 - 1.000 mg/kg | rabbit  | Dermal Toxicity Screening                  |

**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                                         |
|---------------------------------|-------------------------------|------------|-----------------|------------------|---------|------------------------------------------------|
| Acrylic acid<br>79-10-7         | LC50                          | > 5,1 mg/l | vapour          | 4 h              | rat     | OECD Guideline 403 (Acute Inhalation Toxicity) |
| Acrylic acid<br>79-10-7         | Acute toxicity estimate (ATE) | 11 mg/l    | vapour          |                  |         | Expert judgement                               |
| Methacrylic acid<br>79-41-4     | LC50                          | > 3,6 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                                                   |
|------------------------------------------|-------------------|------------------|---------|----------------------------------------------------------|
| Isobornyl methacrylate<br>7534-94-3      | mildly irritating |                  | rabbit  | OECD Guideline 404 (Acute Dermal Irritation / Corrosion) |
| Hydroxypropyl methacrylate<br>27813-02-1 | not irritating    | 24 h             | rabbit  | Draize Test                                              |
| Acrylic acid<br>79-10-7                  | highly corrosive  | 3 min            | rabbit  | OECD Guideline 404 (Acute Dermal Irritation / Corrosion) |
| Cumene hydroperoxide<br>80-15-9          | corrosive         |                  | rabbit  | Draize Test                                              |
| Methacrylic acid<br>79-41-4              | corrosive         | 3 min            | rabbit  | OECD Guideline 404 (Acute Dermal Irritation / Corrosion) |

**Serious eye damage/irritation:**

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

| Hazardous substances<br>CAS-No.          | Result     | Exposure<br>time | Species | Method      |
|------------------------------------------|------------|------------------|---------|-------------|
| 2-Hydroxyethyl methacrylate<br>868-77-9  | irritating |                  | rabbit  | Draize Test |
| Hydroxypropyl methacrylate<br>27813-02-1 | irritating |                  | rabbit  | Draize Test |
| Acrylic acid<br>79-10-7                  | corrosive  | 21 d             | rabbit  | BASF Test   |
| Methacrylic acid<br>79-41-4              | corrosive  |                  | rabbit  | Draize Test |

**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                                  |
|-------------------------------------|-----------------|------------------------------|------------|-----------------------------------------|
| Isobornyl methacrylate<br>7534-94-3 | not sensitising | Guinea pig maximisation test | guinea pig | OECD Guideline 406 (Skin Sensitisation) |
| Acrylic acid<br>79-10-7             | not sensitising | Skin painting test           | guinea pig | not specified                           |
| Methacrylic acid<br>79-41-4         | not sensitising | Buehler test                 | guinea pig | OECD Guideline 406 (Skin Sensitisation) |

**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                                                                                                                |
|------------------------------------------|----------|------------------------------------------------------------------------------------|--------------------------------------------|---------|-----------------------------------------------------------------------------------------------------------------------|
| 2-Hydroxyethyl methacrylate<br>868-77-9  | negative | bacterial reverse mutation assay (e.g Ames test)                                   | with and without                           |         | OECD Guideline 471 (Bacterial Reverse Mutation Assay)                                                                 |
| 2-Hydroxyethyl methacrylate<br>868-77-9  | positive | in vitro mammalian chromosome aberration test                                      | with and without                           |         | OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)                                                    |
| 2-Hydroxyethyl methacrylate<br>868-77-9  | negative | mammalian cell gene mutation assay                                                 | with and without                           |         | OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)                                                       |
| 2-Hydroxyethyl methacrylate<br>868-77-9  | negative | bacterial reverse mutation assay (e.g Ames test)                                   | with and without                           |         | OECD Guideline 472 (Genetic Toxicology: Escherichia coli, Reverse Mutation Assay)                                     |
| Isobornyl methacrylate<br>7534-94-3      | negative | bacterial reverse mutation assay (e.g Ames test)                                   | with and without                           |         | OECD Guideline 471 (Bacterial Reverse Mutation Assay)                                                                 |
| Isobornyl methacrylate<br>7534-94-3      | negative |                                                                                    | with and without                           |         | OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)                                                       |
| Isobornyl methacrylate<br>7534-94-3      | negative | in vitro mammalian chromosome aberration test                                      | with and without                           |         | OECD Guideline 473 (In vitro Mammalian Chromosome Aberration 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)                                                       |
| Acrylic acid<br>79-10-7                  | negative | mammalian cell gene mutation assay                                                 | with and without                           |         | OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)                                                       |
| Acrylic acid<br>79-10-7                  | negative | DNA damage and repair assay, unscheduled DNA synthesis in mammalian cells in vitro | without                                    |         | OECD Guideline 482 (Genetic Toxicology: DNA Damage and Repair, Unscheduled DNA Synthesis in Mammalian Cells In Vitro) |
| Cumene hydroperoxide<br>80-15-9          | positive | bacterial reverse mutation assay (e.g Ames test)                                   | without                                    |         | OECD Guideline 471 (Bacterial Reverse Mutation Assay)                                                                 |
| Methacrylic acid<br>79-41-4              | negative | bacterial reverse mutation assay (e.g Ames test)                                   | with and without                           |         | OECD Guideline 471 (Bacterial Reverse Mutation Assay)                                                                 |

**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                                       |
|------------------------------------------|------------------|-------------------------|----------------------------------------------------|---------|-------------|----------------------------------------------|
| 2-Hydroxyethyl methacrylate<br>868-77-9  |                  | inhalation              | 102 weeks<br>6 hours/day,<br>5 days/week           | rat     | female      | OECD Guideline 451 (Carcinogenicity Studies) |
| Hydroxypropyl methacrylate<br>27813-02-1 | not carcinogenic | inhalation              | 2 years (102 weeks)<br>6 hours/day,<br>5 days/week | rat     | male        | OECD Guideline 451 (Carcinogenicity Studies) |
| Acrylic acid<br>79-10-7                  |                  | oral: drinking water    | 26 (males) -<br>28 (females)<br>month continuously | rat     | male/female | OECD Guideline 451 (Carcinogenicity Studies) |
| Methacrylic acid<br>79-41-4              | not carcinogenic | inhalation              | 2 y                                                | mouse   | male/female | OECD Guideline 451 (Carcinogenicity Studies) |

**Reproductive toxicity:**

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

| Hazardous substances<br>CAS-No.             | Result / Value                                               | Test type                   | Route of<br>application    | Species | Method                                                                                                                          |
|---------------------------------------------|--------------------------------------------------------------|-----------------------------|----------------------------|---------|---------------------------------------------------------------------------------------------------------------------------------|
| 2-Hydroxyethyl<br>methacrylate<br>868-77-9  | NOAEL P $\geq$ 1.000 mg/kg<br>NOAEL F1 $\geq$ 1.000 mg/kg    | screening                   | oral: gavage               | rat     | OECD Combined Repeated<br>Dose and Reproductive /<br>Developmental Toxicity<br>Screening Test (Precursor<br>Protocol of GL 422) |
| Isobornyl methacrylate<br>7534-94-3         | NOAEL P 25 mg/kg<br>NOAEL F1 500 mg/kg                       |                             | oral: gavage               | rat     | OECD Guideline 421<br>(Reproduction /<br>Developmental Toxicity<br>Screening Test)                                              |
| Hydroxypropyl<br>methacrylate<br>27813-02-1 | NOAEL P 400 mg/kg                                            | two-<br>generation<br>study | oral: gavage               | rat     | OECD Guideline 416 (Two-<br>Generation Reproduction<br>Toxicity Study)                                                          |
| Acrylic acid<br>79-10-7                     | NOAEL P 240 mg/kg<br>NOAEL F2 53 mg/l                        |                             | oral:<br>drinking<br>water | rat     | OECD Guideline 416 (Two-<br>Generation Reproduction<br>Toxicity Study)                                                          |
| Methacrylic acid<br>79-41-4                 | NOAEL P 50 mg/kg<br>NOAEL F1 400 mg/kg<br>NOAEL F2 400 mg/kg | Two<br>generation<br>study  | oral: gavage               | rat     | OECD Guideline 416 (Two-<br>Generation Reproduction<br>Toxicity Study)                                                          |

**STOT-single exposure:**

No data available.

**STOT-repeated exposure::**

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

| Hazardous substances<br>CAS-No.             | Result / Value  | Route of<br>application | Exposure time /<br>Frequency of<br>treatment | Species | Method                                                                                                                                  |
|---------------------------------------------|-----------------|-------------------------|----------------------------------------------|---------|-----------------------------------------------------------------------------------------------------------------------------------------|
| 2-Hydroxyethyl<br>methacrylate<br>868-77-9  | NOAEL 100 mg/kg | oral: gavage            | once 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            |                                              | rat     | OECD Guideline 422<br>(Combined Repeated<br>Dose Toxicity Study with<br>the Reproduction /<br>Developmental Toxicity<br>Screening Test) |
| Cumene hydroperoxide<br>80-15-9             |                 | inhalation:<br>aerosol  | 6 h/d<br>5 d/w                               | rat     | not specified                                                                                                                           |

**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<br>type | Value      | Exposure time | Species                                         | Method                                         |
|------------------------------------------|---------------|------------|---------------|-------------------------------------------------|------------------------------------------------|
| 2-Hydroxyethyl methacrylate<br>868-77-9  | LC50          | > 100 mg/l | 96 h          | Oryzias latipes                                 | OECD Guideline 203 (Fish, Acute Toxicity Test) |
| Isobornyl methacrylate<br>7534-94-3      | LC50          | 1,79 mg/l  | 96 h          | Danio rerio                                     | 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                                   |
| Acrylic acid<br>79-10-7                  | LC50          | 27 mg/l    | 96 h          | Salmo gairdneri (new name: Oncorhynchus mykiss) | EPA OTS 797.1400 (Fish Acute Toxicity Test)    |
| Cumene hydroperoxide<br>80-15-9          | LC50          | 3,9 mg/l   | 96 h          | Oncorhynchus mykiss                             | OECD Guideline 203 (Fish, Acute Toxicity Test) |
| Methacrylic acid<br>79-41-4              | LC50          | 85 mg/l    | 96 h          | Salmo gairdneri (new name: Oncorhynchus mykiss) | EPA OTS 797.1400 (Fish Acute Toxicity Test)    |

#### Toxicity (Daphnia):

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

| Hazardous substances<br>CAS-No.          | Value<br>type | Value       | Exposure time | Species       | Method                                                                           |
|------------------------------------------|---------------|-------------|---------------|---------------|----------------------------------------------------------------------------------|
| 2-Hydroxyethyl methacrylate<br>868-77-9  | EC50          | 380 mg/l    | 48 h          | Daphnia magna | OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)                       |
| Isobornyl methacrylate<br>7534-94-3      | EC50          | > 2,57 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)                       |
| Acrylic acid<br>79-10-7                  | EC50          | 95 mg/l     | 48 h          | Daphnia magna | EPA OTS 797.1300 (Aquatic Invertebrate Acute Toxicity Test, Freshwater Daphnids) |
| Cumene hydroperoxide<br>80-15-9          | EC50          | 18 mg/l     | 48 h          | Daphnia magna | OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)                       |
| Methacrylic acid<br>79-41-4              | EC50          | > 130 mg/l  | 48 h          | Daphnia magna | EPA OTS 797.1300 (Aquatic Invertebrate Acute Toxicity Test, Freshwater Daphnids) |

#### Chronic toxicity to aquatic invertebrates

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

| Hazardous substances<br>CAS-No.          | Value<br>type | Value      | Exposure time | Species       | Method                                           |
|------------------------------------------|---------------|------------|---------------|---------------|--------------------------------------------------|
| 2-Hydroxyethyl methacrylate<br>868-77-9  | NOEC          | 24,1 mg/l  | 21 d          | Daphnia magna | OECD 211 (Daphnia magna, Reproduction Test)      |
| Isobornyl methacrylate<br>7534-94-3      | NOEC          | 0,233 mg/l | 21 d          | Daphnia magna | OECD 211 (Daphnia magna, Reproduction Test)      |
| Hydroxypropyl methacrylate<br>27813-02-1 | NOEC          | 45,2 mg/l  | 21 d          | Daphnia magna | OECD 211 (Daphnia magna, Reproduction Test)      |
| Acrylic acid<br>79-10-7                  | NOEC          | 19 mg/l    | 21 d          | Daphnia magna | EPA OTS 797.1330 (Daphnid Chronic Toxicity Test) |

#### 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<br>type | Value       | Exposure time | Species                                                                     | Method                                               |
|------------------------------------------|---------------|-------------|---------------|-----------------------------------------------------------------------------|------------------------------------------------------|
| 2-Hydroxyethyl methacrylate<br>868-77-9  | EC50          | 836 mg/l    | 72 h          | Selenastrum capricornutum<br>(new name: Pseudokirchneriella<br>subcapitata) | OECD Guideline 201 (Alga,<br>Growth Inhibition Test) |
| 2-Hydroxyethyl methacrylate<br>868-77-9  | NOEC          | 400 mg/l    | 72 h          | Selenastrum capricornutum<br>(new name: Pseudokirchneriella<br>subcapitata) | OECD Guideline 201 (Alga,<br>Growth Inhibition Test) |
| Isobornyl methacrylate<br>7534-94-3      | EC50          | 2,66 mg/l   | 96 h          | Pseudokirchneriella subcapitata                                             | OECD Guideline 201 (Alga,<br>Growth Inhibition Test) |
| Isobornyl methacrylate<br>7534-94-3      | NOEC          | 0,254 mg/l  | 96 h          | Pseudokirchneriella subcapitata                                             | OECD Guideline 201 (Alga,<br>Growth Inhibition Test) |
| Hydroxypropyl methacrylate<br>27813-02-1 | EC50          | > 97,2 mg/l | 72 h          | Pseudokirchneriella subcapitata                                             | OECD Guideline 201 (Alga,<br>Growth Inhibition Test) |
| Hydroxypropyl methacrylate<br>27813-02-1 | NOEC          | > 97,2 mg/l | 72 h          | Pseudokirchneriella subcapitata                                             | OECD Guideline 201 (Alga,<br>Growth Inhibition Test) |
| Acrylic acid<br>79-10-7                  | EC10          | 0,03 mg/l   | 72 h          | Scenedesmus subspicatus (new<br>name: Desmodesmus<br>subspicatus)           | EU Method C.3 (Algal<br>Inhibition test)             |
| Acrylic acid<br>79-10-7                  | EC50          | 0,13 mg/l   | 72 h          | Scenedesmus subspicatus (new<br>name: Desmodesmus<br>subspicatus)           | EU Method C.3 (Algal<br>Inhibition test)             |
| Cumene hydroperoxide<br>80-15-9          | ErC50         | 3,1 mg/l    | 72 h          | Pseudokirchneriella subcapitata                                             | OECD Guideline 201 (Alga,<br>Growth Inhibition Test) |
| Methacrylic acid<br>79-41-4              | NOEC          | 8,2 mg/l    | 72 h          | Selenastrum capricornutum<br>(new name: Pseudokirchneriella<br>subcapitata) | OECD Guideline 201 (Alga,<br>Growth Inhibition Test) |
| Methacrylic acid<br>79-41-4              | EC50          | 45 mg/l     | 72 h          | Selenastrum capricornutum<br>(new name: Pseudokirchneriella<br>subcapitata) | OECD Guideline 201 (Alga,<br>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<br>type | Value        | Exposure time | Species                    | Method                                                                            |
|------------------------------------------|---------------|--------------|---------------|----------------------------|-----------------------------------------------------------------------------------|
| 2-Hydroxyethyl methacrylate<br>868-77-9  | EC0           | > 3.000 mg/l | 16 h          | Pseudomonas fluorescens    | other guideline:                                                                  |
| Hydroxypropyl methacrylate<br>27813-02-1 | EC10          | 1.140 mg/l   | 16 h          |                            | not specified                                                                     |
| Acrylic acid<br>79-10-7                  | EC20          | 900 mg/l     | 30 min        | activated sludge, domestic | ISO 8192 (Test for<br>Inhibition of Oxygen<br>Consumption by Activated<br>Sludge) |
| Cumene hydroperoxide<br>80-15-9          | EC10          | 70 mg/l      | 30 min        |                            | not specified                                                                     |
| Methacrylic acid<br>79-41-4              | EC10          | 100 mg/l     | 17 h          |                            | not specified                                                                     |

#### 12.2. Persistence and degradability

The product is not biodegradable.

| Hazardous substances<br>CAS-No.          | Result                   | Test type | Degradability | Exposure<br>time | Method                                                                                         |
|------------------------------------------|--------------------------|-----------|---------------|------------------|------------------------------------------------------------------------------------------------|
| 2-Hydroxyethyl methacrylate<br>868-77-9  | readily biodegradable    | aerobic   | 92 - 100 %    | 14 d             | OECD Guideline 301 C (Ready Biodegradability: Modified MITI Test (I))                          |
| Isobornyl methacrylate<br>7534-94-3      | readily biodegradable    | aerobic   | 70 %          | 28 d             | OECD Guideline 310 (Ready Biodegradability CO <sub>2</sub> in Sealed Vessels (Headspace Test)) |
| Hydroxypropyl methacrylate<br>27813-02-1 | readily biodegradable    | aerobic   | 94,2 %        | 28 d             | OECD Guideline 301 E (Ready biodegradability: Modified OECD Screening Test)                    |
| Acrylic acid<br>79-10-7                  | inherently biodegradable | aerobic   | 100 %         | 28 d             | OECD Guideline 302 B (Inherent biodegradability: Zahn-Wellens/EMPA Test)                       |
| Acrylic acid<br>79-10-7                  | readily biodegradable    | aerobic   | 81 %          | 28 d             | OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test)                              |
| Cumene hydroperoxide<br>80-15-9          |                          | no data   | 0 %           | 28 d             | OECD Guideline 301 B (Ready Biodegradability: CO <sub>2</sub> Evolution Test)                  |
| Methacrylic acid<br>79-41-4              | inherently biodegradable | aerobic   | 100 %         | 14 d             | OECD Guideline 302 B (Inherent biodegradability: Zahn-Wellens/EMPA Test)                       |
| Methacrylic acid<br>79-41-4              | readily biodegradable    | aerobic   | 86 %          | 28 d             | OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test)                              |

### 12.3. Bioaccumulative potential

No data available.

| Hazardous substances<br>CAS-No.     | Bioconcentration factor (BCF) | Exposure time | Temperature | Species     | Method                                                         |
|-------------------------------------|-------------------------------|---------------|-------------|-------------|----------------------------------------------------------------|
| Isobornyl methacrylate<br>7534-94-3 | 37                            | 56 day        | 24 °C       | Danio rerio | OECD Guideline 305 E (Bioaccumulation: Flow-through Fish Test) |
| Acrylic acid<br>79-10-7             | 3,16                          |               |             |             | QSAR (Quantitative Structure Activity Relationship)            |
| Cumene hydroperoxide<br>80-15-9     | 9,1                           |               |             | calculation | OECD Guideline 305 (Bioconcentration: Flow-through Fish Test)  |

### 12.4. Mobility in soil

Cured adhesives are immobile.

| Hazardous substances<br>CAS-No.            | LogPow | Temperature | Method                                                                             |
|--------------------------------------------|--------|-------------|------------------------------------------------------------------------------------|
| 2-Hydroxyethyl methacrylate<br>868-77-9    | 0,42   | 25 °C       | OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method) |
| Isobornyl methacrylate<br>7534-94-3        | 5,09   |             | OECD Guideline 117 (Partition Coefficient (n-octanol / water), HPLC Method)        |
| Hydroxypropyl methacrylate<br>27813-02-1   | 0,97   | 20 °C       | not specified                                                                      |
| Acrylic acid<br>79-10-7                    | 0,46   | 25 °C       | OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method) |
| Cumene hydroperoxide<br>80-15-9            | 2,16   |             | not specified                                                                      |
| Methacrylic acid<br>79-41-4                | 0,93   | 22 °C       | OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method) |
| Acetic acid, 2-phenylhydrazide<br>114-83-0 | 0,74   |             | not specified                                                                      |

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

| Hazardous substances<br>CAS-No.          | PBT / vPvB                                                                                                            |
|------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|
| 2-Hydroxyethyl methacrylate<br>868-77-9  | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria. |
| Isobornyl methacrylate<br>7534-94-3      | 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. |
| Acrylic acid<br>79-10-7                  | 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. |
| Methacrylic acid<br>79-41-4              | 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:

Dispose of in accordance with local and national regulations.

Collection and delivery to recycling enterprise or other registered elimination institution.

Disposal of uncleaned packages:

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

Disposal must be made according to official regulations.

Waste code

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

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

## SECTION 14: Transport information

### 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

VOC content < 3,00 %  
(2010/75/EC)

### 15.2. Chemical safety assessment

A chemical safety assessment has not been carried out.

**SECTION 16: Other information**

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

H226 Flammable liquid and vapor.  
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.  
H331 Toxic if inhaled.  
H332 Harmful 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.  
H411 Toxic to aquatic life with long lasting effects.  
H412 Harmful to aquatic life with long lasting effects.

**Further information:**

This Safety Data Sheet has been produced for sales from Henkel to parties purchasing from Henkel, is based on Regulation (EC) No 1907/2006 and provides information in accordance with applicable regulations of the European Union only. In that respect, no statement, warranty or representation of any kind is given as to compliance with any statutory laws or regulations of any other jurisdiction or territory other than the European Union. When exporting to territories other than the European Union, please consult with the respective Safety Data Sheet of the concerned territory to ensure compliance or liaise with Henkel's Product Safety and Regulatory Affairs Department (ua-productsafety.de@henkel.com) prior to export to other territories than the European Union.

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

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