



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

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LOCTITE AA 315

SDS No. : 153573

V006.0

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

#### 1.1. Product identifier

LOCTITE AA 315

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

Intended use:

Anaerobic Adhesive

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

Henkel AG & Co. KGaA

Henkelstr. 67

40589 Düsseldorf

Germany

Phone: +49 211 797 0

SDSInfo.Adhesive@henkel.com

For Safety Data Sheet updates please visit our website <https://mysds.henkel.com/index.html#/appSelection> or [www.henkel-adhesives.com](http://www.henkel-adhesives.com).

#### 1.4. Emergency telephone number

The Henkel information service also provides an around-the-clock telephone service on phone no.+49-(0)211-797-3350 for exceptional cases.

### 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.               |             |
| Toxic to reproduction                                   | Category 1B |
| H360D May damage the unborn child.                      |             |
| 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**

Tetrahydrofurfuryl methacrylate

Hydroxypropyl methacrylate  
Cumene hydroperoxide  
1-Methyltrimethylene dimethacrylate

methyl methacrylate

**Signal word:**

Danger

**Hazard statement:**

H317 May cause an allergic skin reaction.  
H319 Causes serious eye irritation.  
H335 May cause respiratory irritation.  
H360D May damage the unborn child.  
H412 Harmful to aquatic life with long lasting effects.

**Supplemental information**

Restricted to professional users.

**Precautionary statement:  
Prevention**

P201 Obtain special instructions before use.  
P261 Avoid breathing vapors.  
P273 Avoid release to the environment.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.

**Precautionary statement:  
Response**

P308+P313 IF exposed or concerned: Get medical advice/attention.  
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.

**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 |
|--|---------------|---|--|---------------------|
| Tetrahydrofurfuryl methacrylate<br>2455-24-5<br>219-529-5<br>01-2120748481-53        | 10- 20 %      | Skin Sens. 1, H317<br>Repr. 1B, H360D<br>Aquatic Chronic 3, H412  |  |                     |
| Hydroxypropyl methacrylate<br>27813-02-1<br>248-666-3<br>01-2119490226-37            | 5- < 10 %     | 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 |                     |
| 1-Methyltrimethylene<br>dimethacrylate<br>1189-08-8<br>214-711-0<br>01-2119969461-31 | 0,1- < 1 %    | Skin Sens. 1B, H317   |  |                     |
| methyl methacrylate<br>80-62-6<br>201-297-1<br>01-2119452498-28                      | 0,1- < 1 %    | Flam. Liq. 2, H225<br>STOT SE 3, H335<br>Skin Irrit. 2, H315<br>Skin Sens. 1, H317  |  | EU OEL              |

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.

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

EYE: Irritation, conjunctivitis.

#### **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:**

Good industrial hygiene practices should be observed.

Do not eat, drink or smoke while working.

Wash hands before work breaks and after finishing work.

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

Ensure good ventilation/extraction.

Refer to Technical Data Sheet

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

Anaerobic Adhesive

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters****Occupational Exposure Limits**Valid for  
Germany

| <b>Ingredient [Regulated substance]</b>                 | <b>ppm</b> | <b>mg/m<sup>3</sup></b> | <b>Value type</b>                   | <b>Short term exposure limit category / Remarks</b>  | <b>Regulatory list</b> |
|---|------------|-------------------------|-------------------------------------|--|------------------------|
| Aluminium hydroxide<br>21645-51-2                       |            | 1,25                    | Exposure limit(s):                  | If the AGW and BGW values are complied with, there should be no risk of reproductive damage (see Number 2.7).                                  | TRGS 900               |
| Aluminium hydroxide<br>21645-51-2                       |            | 10                      | Exposure limit(s):                  | 2<br>If the AGW and BGW values are complied with, there should be no risk of reproductive damage (see Number 2.7).                             | TRGS 900               |
| Aluminium hydroxide<br>21645-51-2                       |            |                         | Short Term Exposure Classification: | Category II: substances with a resorptive effect.  | TRGS 900               |
| Methyl methacrylate<br>80-62-6                          | 50         | 210                     | Exposure limit(s):                  | 2<br>If the AGW and BGW values are complied with, there should be no risk of reproductive damage (see Number 2.7).                             | TRGS 900               |
| Methyl methacrylate<br>80-62-6                          |            |                         | Short Term Exposure Classification: | Category I: substances for which the localized effect has an assigned OEL or for substances with a sensitizing effect in respiratory passages. | TRGS 900               |
| Methyl methacrylate<br>80-62-6<br>[METHYL METHACRYLATE] | 100        |                         | Short Term Exposure Limit (STEL):   | Indicative   | ECTLV                  |
| Methyl methacrylate<br>80-62-6<br>[METHYL METHACRYLATE] | 50         |                         | Time Weighted Average (TWA):        | Indicative   | ECTLV                  |

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

| Name on list  | Environmental<br>Compartment       | Exposure<br>period | Value           |     |                 |        | Remarks                             |
|---|------------------------------------|--------------------|-----------------|-----|-----------------|--------|-------------------------------------|
|   |                                    |                    | mg/l            | ppm | mg/kg           | others |                                     |
| Tetrahydrofurfuryl methacrylate<br>2455-24-5                        | aqua<br>(freshwater)               |                    | 0,347 mg/l      |     |                 |        |                                     |
| Tetrahydrofurfuryl methacrylate<br>2455-24-5                        | aqua (marine<br>water)             |                    | 0,035 mg/l      |     |                 |        |                                     |
| Tetrahydrofurfuryl methacrylate<br>2455-24-5                        | sewage<br>treatment plant<br>(STP) |                    | 15,8 mg/l       |     |                 |        |                                     |
| Tetrahydrofurfuryl methacrylate<br>2455-24-5                        | sediment<br>(freshwater)           |                    |                 |     | 2,12 mg/kg      |        |                                     |
| Tetrahydrofurfuryl methacrylate<br>2455-24-5                        | sediment<br>(marine water)         |                    |                 |     | 0,212<br>mg/kg  |        |                                     |
| Tetrahydrofurfuryl methacrylate<br>2455-24-5                        | aqua<br>(intermittent<br>releases) |                    | 0,347 mg/l      |     |                 |        |                                     |
| Tetrahydrofurfuryl methacrylate<br>2455-24-5                        | Soil                               |                    |                 |     | 0,221<br>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  |        |                                     |
| 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<br>hydroperoxide<br>80-15-9          | sewage<br>treatment plant<br>(STP) |                    | 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 |        |                                     |

|  |                                    |  |            |  |                |  |  |
|--|------------------------------------|--|------------|--|----------------|--|--|
| 1-Methyltrimethylene dimethacrylate<br>1189-08-8 | aqua<br>(freshwater)               |  | 0,043 mg/l |  |                |  |  |
| 1-Methyltrimethylene dimethacrylate<br>1189-08-8 | aqua (marine<br>water)             |  | 0,004 mg/l |  |                |  |  |
| 1-Methyltrimethylene dimethacrylate<br>1189-08-8 | sewage<br>treatment plant<br>(STP) |  |            |  | 20 mg/kg       |  |  |
| 1-Methyltrimethylene dimethacrylate<br>1189-08-8 | sediment<br>(freshwater)           |  |            |  | 3,12 mg/kg     |  |  |
| 1-Methyltrimethylene dimethacrylate<br>1189-08-8 | sediment<br>(marine water)         |  |            |  | 0,312<br>mg/kg |  |  |
| 1-Methyltrimethylene dimethacrylate<br>1189-08-8 | Soil                               |  |            |  | 0,573<br>mg/kg |  |  |
| methyl methacrylate<br>80-62-6                   | aqua<br>(freshwater)               |  | 0,94 mg/l  |  |                |  |  |
| methyl methacrylate<br>80-62-6                   | aqua (marine<br>water)             |  | 0,94 mg/l  |  |                |  |  |
| methyl methacrylate<br>80-62-6                   | aqua<br>(intermittent<br>releases) |  | 0,94 mg/l  |  |                |  |  |
| methyl methacrylate<br>80-62-6                   | sewage<br>treatment plant<br>(STP) |  | 10 mg/l    |  |                |  |  |
| methyl methacrylate<br>80-62-6                   | sediment<br>(freshwater)           |  |            |  | 5,74 mg/kg     |  |  |
| methyl methacrylate<br>80-62-6                   | Soil                               |  |            |  | 1,47 mg/kg     |  |  |

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

| Name on list  | Application Area   | Route of Exposure | Health Effect                             | Exposure Time | Value                   | Remarks              |
|---|--------------------|-------------------|---|---------------|-------------------------|----------------------|
| Tetrahydrofurfuryl methacrylate<br>2455-24-5                    | Workers            | inhalation        | Long term exposure - systemic effects     |               | 3,53 mg/m <sup>3</sup>  |                      |
| Tetrahydrofurfuryl methacrylate<br>2455-24-5                    | Workers            | dermal            | Long term exposure - systemic effects     |               | 1 mg/kg                 |                      |
| Tetrahydrofurfuryl methacrylate<br>2455-24-5                    | General population | inhalation        | Long term exposure - systemic effects     |               | 0,87 mg/m <sup>3</sup>  |                      |
| Tetrahydrofurfuryl methacrylate<br>2455-24-5                    | General population | dermal            | Long term exposure - systemic effects     |               | 0,5 mg/kg               |                      |
| Tetrahydrofurfuryl methacrylate<br>2455-24-5                    | General population | oral              | Long term exposure - systemic effects     |               | 0,5 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               | 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/m <sup>3</sup>  | 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/m <sup>3</sup>   | 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/m <sup>3</sup>     |                      |
| 1-Methyltrimethylene dimethacrylate<br>1189-08-8                | Workers            | inhalation        | Long term exposure - systemic effects     |               | 14,5 mg/m <sup>3</sup>  |                      |
| 1-Methyltrimethylene dimethacrylate<br>1189-08-8                | Workers            | dermal            | Long term exposure - systemic effects     |               | 4,2 mg/kg               |                      |
| 1-Methyltrimethylene dimethacrylate<br>1189-08-8                | General population | oral              | Long term exposure - systemic effects     |               | 2,5 mg/kg               |                      |
| 1-Methyltrimethylene dimethacrylate<br>1189-08-8                | General population | dermal            | Long term exposure - systemic effects     |               | 2,5 mg/kg               |                      |
| 1-Methyltrimethylene dimethacrylate<br>1189-08-8                | General population | inhalation        | Long term exposure - systemic effects     |               | 4,3 mg/m <sup>3</sup>   |                      |
| methyl methacrylate<br>80-62-6                                  | Workers            | Inhalation        | Long term exposure - systemic effects     |               | 348,4 mg/m <sup>3</sup> |                      |
| methyl methacrylate<br>80-62-6                                  | Workers            | Inhalation        | Long term exposure - local effects        |               | 208 mg/m <sup>3</sup>   |                      |
| methyl methacrylate<br>80-62-6                                  | Workers            | inhalation        | Acute/short term exposure - local effects |               | 416 mg/m <sup>3</sup>   |                      |
| methyl methacrylate<br>80-62-6                                  | Workers            | dermal            | Long term exposure - systemic effects     |               | 13,67 mg/kg             |                      |
| methyl methacrylate<br>80-62-6                                  | Workers            | dermal            | Long term exposure - local effects        |               | 1,5 mg/cm <sup>2</sup>  |                      |
| methyl methacrylate<br>80-62-6                                  | Workers            | dermal            | Acute/short term exposure - local effects |               | 1,5 mg/cm <sup>2</sup>  |                      |
| methyl methacrylate<br>80-62-6                                  | General population | Inhalation        | Long term exposure -                      |               | 74,3 mg/m <sup>3</sup>  |                      |



|                                |                       |            |   |  |            |  |
|--------------------------------|-----------------------|------------|---|--|------------|--|
|                                |                       |            | systemic effects                                |  |            |  |
| methyl methacrylate<br>80-62-6 | General<br>population | Inhalation | Long term<br>exposure - local<br>effects        |  | 104 mg/m3  |  |
| methyl methacrylate<br>80-62-6 | General<br>population | inhalation | Acute/short term<br>exposure - local<br>effects |  | 208 mg/m3  |  |
| methyl methacrylate<br>80-62-6 | General<br>population | dermal     | Long term<br>exposure -<br>systemic effects     |  | 8,2 mg/kg  |  |
| methyl methacrylate<br>80-62-6 | General<br>population | dermal     | Long term<br>exposure - local<br>effects        |  | 1,5 mg/cm2 |  |
| methyl methacrylate<br>80-62-6 | General<br>population | dermal     | Acute/short term<br>exposure - local<br>effects |  | 1,5 mg/cm2 |  |
| methyl methacrylate<br>80-62-6 | General<br>population | oral       | Long term<br>exposure -<br>systemic effects     |  |            |  |

**Biological Exposure Indices:**

| Ingredient [Regulated<br>substance] | Parameters | Biological<br>specimen | Sampling time                   | Conc.    | Basis of biol.<br>exposure index | Remark | Additional<br>Information |
|-------------------------------------|------------|------------------------|---------------------------------|----------|----------------------------------|--------|---------------------------|
| Aluminium hydroxide<br>21645-51-2   | Aluminum   | Urine                  | Sampling time: End of<br>shift. | 200 µg/l | DE BAT                           |        |                           |

**8.2. Exposure controls:**

Engineering controls:  
Ensure good ventilation/extraction.

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

Hand protection:  
Chemical-resistant protective gloves (EN 374).  
Suitable materials for short-term contact or splashes (recommended: at least protection index 2, corresponding to > 30 minutes permeation time as per EN 374):  
nitrile rubber (NBR; >= 0.4 mm thickness)  
Suitable materials for longer, direct contact (recommended: protection index 6, corresponding to > 480 minutes permeation time as per EN 374):  
nitrile rubber (NBR; >= 0.4 mm thickness)  
This information is based on literature references and on information provided by glove manufacturers, or is derived by analogy with similar substances. Please note that in practice the working life of chemical-resistant protective gloves may be considerably shorter than the permeation time determined in accordance with EN 374 as a result of the many influencing factors (e.g. temperature). If signs of wear and tear are noticed then the gloves should be replaced.

Eye protection:  
Safety glasses with sideshields or chemical safety goggles should be worn if there is a risk of splashing.  
Protective eye equipment should conform to EN166.

Skin protection:  
Wear suitable protective clothing.  
Protective clothing should conform to EN 14605 for liquid splashes or to EN 13982 for dusts.

Advices to personal protection equipment:  
The information provided on personal protective equipment is for guidance purposes only. A full risk assessment should be conducted prior to using this product to determine the appropriate personal protective equipment to suit local conditions.  
Personal protective equipment should conform to the relevant EN standard.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

|   |   |
|---|---|
| Delivery form   | paste   |
| Colour  | blue  |
| Odor  | mild, Acrylic   |
| Physical state  | liquid  |
| Melting point   | Not applicable, Product is a liquid   |
| Solidification temperature                            | < -20 °C (< -4 °F)  |
| Initial boiling point                                 | > 150 °C (> 302 °F)   |
| Flammability  | Combustible Liquid Not applicable<br>Non flammable product (flash point is greater than 93°C) |
| Explosive limits                                      | Not applicable, The product is not flammable.   |
| Flash point   | > 93,3 °C (> 199.94 °F); Tagliabue closed cup   |
| Auto-ignition temperature                             | 396 °C (744.8 °F) The product is not flammable.   |
| Decomposition temperature                             | > 83 °C (> 181.4 °F);   |
| pH  | 7 - 9   |
| (20 °C (68 °F); Conc.: 0,1 % product; Solvent: Water) |   |
| Viscosity (kinematic)                                 | > 99.999 mm <sup>2</sup> /s   |
| (20 °C (68 °F); )                                     |   |
| Solubility (qualitative)                              | Slightly soluble  |
| (20 °C (68 °F); Solvent: Water)                       |   |
| Solubility (qualitative)                              | Partially soluble   |
| (Solvent: Acetone)                                    |   |
| Partition coefficient: n-octanol/water                | Not applicable  |
|   | Mixture   |
| Vapour pressure                                       | < 5 mm hg   |
| (27 °C (80.6 °F))                                     |   |
| Vapour pressure                                       | < 8,6 hPa   |
| (20 °C (68 °F))                                       |   |
| Density   | 1,6 - 1,7 g/cm <sup>3</sup> None  |
| (20 °C (68 °F))                                       |   |
| Relative vapour density:                              | = 1   |
| (20 °C)   |   |
| 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                                   |
|---|---------------|---------------|---------|--|
| Tetrahydrofurfuryl<br>methacrylate<br>2455-24-5     | LD50          | 3.945 mg/kg   | rat     | OECD Guideline 401 (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:                         |
| 1-Methyltrimethylene<br>dimethacrylate<br>1189-08-8 | LD50          | > 5.000 mg/kg | rat     | not specified                            |
| methyl methacrylate<br>80-62-6                      | LD50          | 9.400 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  |
|---|--|---------------|---------|---|
| 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  |
| 1-Methyltrimethylene<br>dimethacrylate<br>1189-08-8 | LD50                                   | > 3.000 mg/kg | rabbit  | not specified   |
| methyl methacrylate<br>80-62-6                      | LD50                                   | > 5.000 mg/kg | rabbit  | equivalent or similar to OECD Guideline 402 (Acute Dermal Toxicity) |

**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        |
|---------------------------------|---------------|------------|-----------------|------------------|---------|---------------|
| Cumene hydroperoxide<br>80-15-9 | LC50          | 1,370 mg/l | vapour          | 4 h              | rat     | not specified |
| methyl methacrylate<br>80-62-6  | LC50          | 29,8 mg/l  | vapour          | 4 h              | rat     | not specified |

**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      |
|---|----------------|------------------|---------|-------------|
| Tetrahydrofurfuryl<br>methacrylate<br>2455-24-5 | not irritating | 24 h             | rabbit  | Draize Test |
| Hydroxypropyl<br>methacrylate<br>27813-02-1     | not irritating | 24 h             | rabbit  | Draize Test |
| Cumene hydroperoxide<br>80-15-9                 | corrosive      |                  | rabbit  | Draize Test |

**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      |
|---|--|------------------|---------|-------------|
| Tetrahydrofurfuryl<br>methacrylate<br>2455-24-5 | not irritating                                   |                  | rabbit  | Draize Test |
| Hydroxypropyl<br>methacrylate<br>27813-02-1     | Category 2B<br>(mildly<br>irritating to<br>eyes) |                  | 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   |
|---|-----------------|---|--|--|
| Tetrahydrofurfuryl<br>methacrylate<br>2455-24-5     | sensitising     | Patch-Test                                | human                                      | not specified  |
| Tetrahydrofurfuryl<br>methacrylate<br>2455-24-5     | sensitising     | Direct peptide reactivity<br>assay (DPRA) | cysteine and<br>lysine, in<br>chemico test | not specified  |
| 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  |
| 1-Methyltrimethylene<br>dimethacrylate<br>1189-08-8 | sensitising     | Mouse local lymphnode<br>assay (LLNA)     | mouse                                      | OECD Guideline 429 (Skin Sensitisation:<br>Local Lymph Node Assay)                             |
| methyl methacrylate<br>80-62-6                      | sensitising     | Mouse local lymphnode<br>assay (LLNA)     | mouse                                      | OECD Guideline 429 (Skin Sensitisation:<br>Local Lymph Node Assay)                             |

**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  |
|--|----------|--|--|-------------------------|---|
| 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 | positive | in vitro mammalian chromosome aberration test    | with and without                           |                         | Chromosome Aberration Test                                      |
| Hydroxypropyl methacrylate<br>27813-02-1 | negative | mammalian cell gene mutation assay               | with and without                           |                         | OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test) |
| Cumene hydroperoxide<br>80-15-9          | positive | bacterial reverse mutation assay (e.g Ames test) | without                                    |                         | OECD Guideline 471 (Bacterial Reverse Mutation Assay)           |
| methyl methacrylate<br>80-62-6           | negative | bacterial reverse mutation assay (e.g Ames test) | with and without                           |                         | not specified   |
| Hydroxypropyl methacrylate<br>27813-02-1 | negative | oral: gavage                                     |  | mouse                   | OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)    |
| Hydroxypropyl methacrylate<br>27813-02-1 | negative | oral: gavage                                     |  | Drosophila melanogaster | not specified   |
| Cumene hydroperoxide<br>80-15-9          | negative | dermal   |  | mouse                   | not specified   |

**Carcinogenicity**

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

| Hazardous components<br>CAS-No.          | Result           | Route of application | Exposure time /<br>Frequency of treatment | Species | Sex  | Method   |
|--|------------------|----------------------|---|---------|------|--|
| Hydroxypropyl methacrylate<br>27813-02-1 | not carcinogenic | inhalation           | 2 y<br>6 h/d, 5 d/w                       | rat     | male | equivalent or similar OECD Guideline 451 (Carcinogenicity Studies) |

**Reproductive toxicity:**

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

| Hazardous substances<br>CAS-No.              | Result / Value                            | Test type            | Route of application | Species | Method   |
|--|---|----------------------|----------------------|---------|--|
| Tetrahydrofurfuryl methacrylate<br>2455-24-5 | NOAEL P 300 mg/kg                         | screening            | oral: gavage         | rat     | OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test) |
| Hydroxypropyl methacrylate<br>27813-02-1     | NOAEL P 300 mg/kg<br>NOAEL F1 1.000 mg/kg | screening            | oral: gavage         | rat     | OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test) |
| Hydroxypropyl methacrylate<br>27813-02-1     | NOAEL P 400 mg/kg<br>NOAEL F1 400 mg/kg   | two-generation study | oral: gavage         | rat     | OECD Guideline 416 (Two-Generation Reproduction Toxicity Study)  |

**STOT-single exposure:**

No data available.

**STOT-repeated exposure:**

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

| Hazardous substances<br>CAS-No.                 | Result / Value   | Route of<br>application | Exposure time /<br>Frequency of<br>treatment | Species | Method  |
|---|------------------|-------------------------|--|---------|---|
| Tetrahydrofurfuryl<br>methacrylate<br>2455-24-5 | NOAEL 300 mg/kg  | oral: gavage            | 29 d<br>yes, concurrent<br>vehicle           | 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   |
| methyl methacrylate<br>80-62-6                  | LOAEL 2000 ppm   | inhalation              | 14 weeks<br>6 hrs/day, 5 days/wk             | mouse   | Dose Range Finding<br>Study   |
| methyl methacrylate<br>80-62-6                  | NOAEL 1000 ppm   | inhalation              | 14 weeks<br>6 hrs/day, 5 days/wk             | mouse   | Dose Range Finding<br>Study   |

**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  |
|---|---------------|-----------|---------------|--------------------------|---|
| Tetrahydrofurfuryl<br>methacrylate<br>2455-24-5     | LC50          | 34,7 mg/l | 96 h          | Pimephales promelas      | OECD Guideline 203 (Fish,<br>Acute Toxicity Test) |
| Hydroxypropyl methacrylate<br>27813-02-1            | LC50          | 493 mg/l  | 48 h          | Leuciscus idus melanotus | DIN 38412-15                                      |
| Cumene hydroperoxide<br>80-15-9                     | LC50          | 3,9 mg/l  | 96 h          | Oncorhynchus mykiss      | OECD Guideline 203 (Fish,<br>Acute Toxicity Test) |
| 1-Methyltrimethylene<br>dimethacrylate<br>1189-08-8 | LC50          | 32,5 mg/l | 48 h          |                          | DIN 38412-15                                      |
| methyl methacrylate<br>80-62-6                      | LC50          | 350 mg/l  | 96 h          | Leuciscus idus           | 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  |
|--|---------------|------------|---------------|---------------|---|
| 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)                          |
| methyl methacrylate<br>80-62-6           | EC50          | 69 mg/l    | 48 h          | Daphnia magna | EPA OTS 797.1300<br>(Aquatic Invertebrate Acute<br>Toxicity Test, Freshwater<br>Daphnids) |

**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   |
|---|---------------|-----------|---------------|---------------|--|
| Tetrahydrofurfuryl<br>methacrylate<br>2455-24-5     | NOEC          | 37,2 mg/l | 21 d          | Daphnia magna | OECD 211 (Daphnia<br>magna, Reproduction Test) |
| Hydroxypropyl methacrylate<br>27813-02-1            | NOEC          | 45,2 mg/l | 21 d          | Daphnia magna | OECD 211 (Daphnia<br>magna, Reproduction Test) |
| 1-Methyltrimethylene<br>dimethacrylate<br>1189-08-8 | NOEC          | 5,09 mg/l | 21 d          | Daphnia magna | OECD 211 (Daphnia<br>magna, Reproduction Test) |
| methyl methacrylate<br>80-62-6                      | NOEC          | 37 mg/l   | 21 d          | Daphnia magna | OECD 211 (Daphnia<br>magna, Reproduction Test) |

**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   |
|---|---------------|-------------|---------------|---|--|
| Tetrahydrofurfuryl<br>methacrylate<br>2455-24-5     | EC50          | > 100 mg/l  | 72 h          | Desmodesmus subspicatus   | OECD Guideline 201 (Alga,<br>Growth Inhibition Test) |
| Tetrahydrofurfuryl<br>methacrylate<br>2455-24-5     | NOEC          | > 100 mg/l  | 72 h          | Desmodesmus subspicatus   | 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) |
| Cumene hydroperoxide<br>80-15-9                     | EC50          | 3,1 mg/l    | 72 h          | Desmodesmus subspicatus<br>(reported as Scenedesmus<br>subspicatus)         | OECD Guideline 201 (Alga,<br>Growth Inhibition Test) |
| Cumene hydroperoxide<br>80-15-9                     | NOEC          | 1 mg/l      | 72 h          | Desmodesmus subspicatus<br>(reported as Scenedesmus<br>subspicatus)         | OECD Guideline 201 (Alga,<br>Growth Inhibition Test) |
| 1-Methyltrimethylene<br>dimethacrylate<br>1189-08-8 | EC50          | 9,79 mg/l   | 72 h          | Desmodesmus subspicatus   | OECD Guideline 201 (Alga,<br>Growth Inhibition Test) |
| 1-Methyltrimethylene<br>dimethacrylate<br>1189-08-8 | NOEC          | 2,11 mg/l   | 72 h          | Desmodesmus subspicatus   | OECD Guideline 201 (Alga,<br>Growth Inhibition Test) |
| methyl methacrylate<br>80-62-6                      | EC50          | 170 mg/l    | 96 h          | Selenastrum capricornutum<br>(new name: Pseudokirchneriella<br>subcapitata) | OECD Guideline 201 (Alga,<br>Growth Inhibition Test) |
| methyl methacrylate<br>80-62-6                      | NOEC          | 100 mg/l    | 96 h          | Selenastrum capricornutum<br>(new name: Pseudokirchneriella<br>subcapitata) | OECD Guideline 201 (Alga,<br>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   |
| 1-Methyltrimethylene<br>dimethacrylate<br>1189-08-8 | NOEC          | 20 mg/l          | 28 d          | activated sludge, domestic | not specified   |
| methyl methacrylate<br>80-62-6                      | EC20          | > 150 - 200 mg/l | 30 min        | activated sludge, domestic | ISO 8192 (Test for<br>Inhibition of Oxygen<br>Consumption by Activated<br>Sludge) |

**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  |
|---|----------------------------|-----------|---------------|------------------|---|
| Tetrahydrofurfuryl<br>methacrylate<br>2455-24-5     | not readily biodegradable. | aerobic   | 75 %          | 28 d             | OECD Guideline 301 F (Ready<br>Biodegradability: Manometric<br>Respirometry Test)       |
| Hydroxypropyl methacrylate<br>27813-02-1            | readily biodegradable      | aerobic   | 94,2 %        | 28 d             | OECD Guideline 301 E (Ready<br>biodegradability: Modified OECD<br>Screening Test)       |
| Cumene hydroperoxide<br>80-15-9                     | not readily biodegradable. | aerobic   | 3 %           | 28 d             | OECD Guideline 301 B (Ready<br>Biodegradability: CO2 Evolution<br>Test)                 |
| 1-Methyltrimethylene<br>dimethacrylate<br>1189-08-8 | readily biodegradable      | aerobic   | 84 %          | 28 d             | OECD Guideline 310 (Ready<br>Biodegradability CO2 in Sealed<br>Vessels (Headspace Test) |
| methyl methacrylate<br>80-62-6                      | readily biodegradable      | aerobic   | 94 %          | 14 d             | OECD Guideline 301 C (Ready<br>Biodegradability: Modified MITI<br>Test (I))             |

### 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<br>(Bioconcentration: Flow-through<br>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  |
|--|--------|-------------|---|
| Tetrahydrofurfuryl methacrylate<br>2455-24-5 | 1,76   |             | EU Method A.8 (Partition Coefficient)                                       |
| 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) |
| methyl methacrylate<br>80-62-6               | 1,38   | 20 °C       | other guideline:  |

#### 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  |
|--|---|
| Tetrahydrofurfuryl methacrylate<br>2455-24-5     | 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. |
| 1-Methyltrimethylene dimethacrylate<br>1189-08-8 | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria. |
| methyl methacrylate<br>80-62-6                   | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria. |

#### 12.6. Endocrine disrupting properties

not applicable

#### 12.7. Other adverse effects

No data available.

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Product disposal:

Dispose of in accordance with local and national regulations.

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

Disposal of uncleaned packages:

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

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 1005/2009): | Not applicable |
| Prior Informed Consent (PIC) (Regulation (EU) No 649/2012):     | Not applicable |
| Persistent organic pollutants (Regulation (EU) 2019/1021):      | Not applicable |
| VOC content   | < 3 %          |

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(2010/75/EC)

**15.2. Chemical safety assessment**

A chemical safety assessment has not been carried out.

**National regulations/information (Germany):**

|                                      |   |
|--------------------------------------|---|
| WGK:                                 | WGK 2: significantly water endangering (Ordinance on facilities for handling substances that are hazardous to water (AwSV) )<br>Classification according to AwSV, Annex 1 (5.2) |
| Storage class according to TRGS 510: | 6.1D  |
| General remarks (DE):                | This product is in scope of the German regulation<br>"ChemikalienVerbotsVerordnung"   |

## 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:

H225 Highly flammable liquid and vapour.  
H242 Heating may cause a fire.  
H302 Harmful if swallowed.  
H312 Harmful in contact with skin.  
H314 Causes severe skin burns and eye damage.  
H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H319 Causes serious eye irritation.  
H330 Fatal if inhaled.  
H335 May cause respiratory irritation.  
H360D May damage the unborn child.  
H373 May cause damage to organs through prolonged or repeated exposure.  
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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