



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

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LOCTITE 640

SDS No. : 173097  
V005.0

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Replaces version from: 13.06.2017

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

#### 1.1. Product identifier

LOCTITE 640

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

Intended use:

Adhesive

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

Henkel Ltd

Wood Lane End

HP2 4RQ Hemel Hempstead

Great Britain

Phone: +44 1442 278000

Fax-no.: +44 1442 278071

ua-productsafety.uk@henkel.com

#### 1.4. Emergency telephone number

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

### SECTION 2: Hazards identification

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

##### Classification (CLP):

|   |            |
|---|------------|
| Serious eye damage                                      | Category 1 |
| H318 Causes serious eye damage.                         |            |
| 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. |            |
| Skin irritation   | Category 2 |
| H315 Causes skin irritation.                            |            |

#### 2.2. Label elements

##### Label elements (CLP):

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

Hydroxypropyl methacrylate

Acrylic acid

Cumene hydroperoxide

2,2'-Ethylenedioxydiethyl dimethacrylate

**Signal word:**

Danger

**Hazard statement:**

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

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**

P261 Avoid breathing vapors.

P273 Avoid release to the environment.

P280 Wear protective gloves/eye protection.

**Precautionary statement:  
Response**

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

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

**2.3. Other hazards**

Non corrosive to skin in accordance with the in vitro test method, B40 skin corrosion - Human skin model assay, equivalent to test method OECD 431 or based on analogy to similar products tested.

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:**

Methacrylate resin based product containing Acrylic Acid

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

| Hazardous components<br>CAS-No.                     | EC Number<br>REACH-Reg No.    | content    | Classification   |
|---|-------------------------------|------------|--|
| 2,2'-Ethylendioxydiethyl dimethacrylate<br>109-16-0 | 203-652-6<br>01-2119969287-21 | 20- 40 %   | Skin Sens. 1B<br>H317  |
| Hydroxypropyl methacrylate<br>27813-02-1            | 248-666-3<br>01-2119490226-37 | 5- < 10 %  | Skin Sens. 1<br>H317<br>Eye Irrit. 2<br>H319   |
| Acrylic acid<br>79-10-7                             | 201-177-9<br>01-2119452449-31 | 5- < 10 %  | 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                     | 1- < 2,5 % | 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   |

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**

After eye contact: Corrosive, may cause permanent damage to eyes (impairment of vision).

SKIN: Redness, inflammation.

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

SKIN: Rash, Urticaria.

**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:**

None known

**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.

**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**

Store in sealed original container.  
Refer to Technical Data Sheet

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

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 |
|---|-----|-------------------|-----------------------------------|--|-----------------|
| 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]                     | 2   | 6                 | Time Weighted Average (TWA):      |  | IR_OEL          |
| Acrylic acid<br>79-10-7<br>[ACRYLIC ACID (PROP-2-ENOIC ACID)] | 10  | 29                | Time Weighted Average (TWA):      | Indicative                                   | ECLTV           |
| Acrylic acid<br>79-10-7<br>[ACRYLIC ACID (PROP-2-ENOIC ACID)] | 20  | 59                | Short Term Exposure Limit (STEL): | Indicative                                   | ECLTV           |
| 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): |  | IR_OEL          |

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

| Name on list   | Environmental Compartment    | Exposure period | Value        |     |               |        | Remarks |
|--|------------------------------|-----------------|--------------|-----|---------------|--------|---------|
|  |                              |                 | mg/l         | ppm | mg/kg         | others |         |
| 2,2'-Ethylenedioxydiethyl dimethacrylate 109-16-0            | aqua (freshwater)            |                 | 0,164 mg/l   |     |               |        |         |
| 2,2'-Ethylenedioxydiethyl dimethacrylate 109-16-0            | aqua (marine water)          |                 | 0,0164 mg/l  |     |               |        |         |
| 2,2'-Ethylenedioxydiethyl dimethacrylate 109-16-0            | sewage treatment plant (STP) |                 | 10 mg/l      |     |               |        |         |
| 2,2'-Ethylenedioxydiethyl dimethacrylate 109-16-0            | aqua (intermittent releases) |                 | 0,164 mg/l   |     |               |        |         |
| 2,2'-Ethylenedioxydiethyl dimethacrylate 109-16-0            | sediment (freshwater)        |                 |              |     | 1,85 mg/kg    |        |         |
| 2,2'-Ethylenedioxydiethyl dimethacrylate 109-16-0            | sediment (marine water)      |                 |              |     | 0,185 mg/kg   |        |         |
| 2,2'-Ethylenedioxydiethyl dimethacrylate 109-16-0            | soil                         |                 |              |     | 0,274 mg/kg   |        |         |
| 2,2'-Ethylenedioxydiethyl dimethacrylate 109-16-0            | Air                          |                 |              |     |               |        |         |
| 2,2'-Ethylenedioxydiethyl dimethacrylate 109-16-0            | Predator                     |                 |              |     |               |        |         |
| Methacrylic acid, monoester with propane-1,2-diol 27813-02-1 | aqua (freshwater)            |                 | 0,904 mg/l   |     |               |        |         |
| Methacrylic acid, monoester with propane-1,2-diol 27813-02-1 | aqua (marine water)          |                 | 0,904 mg/l   |     |               |        |         |
| Methacrylic acid, monoester with propane-1,2-diol 27813-02-1 | sewage treatment plant (STP) |                 | 10 mg/l      |     |               |        |         |
| Methacrylic acid, monoester with propane-1,2-diol 27813-02-1 | aqua (intermittent releases) |                 | 0,972 mg/l   |     |               |        |         |
| Methacrylic acid, monoester with propane-1,2-diol 27813-02-1 | sediment (freshwater)        |                 |              |     | 6,28 mg/kg    |        |         |
| Methacrylic acid, monoester with propane-1,2-diol 27813-02-1 | sediment (marine water)      |                 |              |     | 6,28 mg/kg    |        |         |
| Methacrylic acid, monoester with propane-1,2-diol 27813-02-1 | soil                         |                 |              |     | 0,727 mg/kg   |        |         |
| Acrylic acid 79-10-7   | aqua (freshwater)            |                 | 0,003 mg/l   |     |               |        |         |
| Acrylic acid 79-10-7   | aqua (marine water)          |                 | 0,0003 mg/l  |     |               |        |         |
| Acrylic acid 79-10-7   | aqua (intermittent releases) |                 | 0,0013 mg/l  |     |               |        |         |
| Acrylic acid 79-10-7   | sewage treatment plant (STP) |                 | 0,9 mg/l     |     |               |        |         |
| Acrylic acid 79-10-7   | sediment (freshwater)        |                 |              |     | 0,0236 mg/kg  |        |         |
| Acrylic acid 79-10-7   | sediment (marine water)      |                 |              |     | 0,00236 mg/kg |        |         |
| Acrylic acid 79-10-7   | soil                         |                 |              |     | 1 mg/kg       |        |         |
| Acrylic acid 79-10-7   | oral                         |                 |              |     | 0,03 g/kg     |        |         |
| Acrylic acid 79-10-7   | Predator                     |                 |              |     | 0,03 g/kg     |        |         |
| Acrylic acid 79-10-7   | Air                          |                 |              |     |               |        |         |
| .alpha.,.alpha.-Dimethylbenzyl hydroperoxide 80-15-9         | aqua (freshwater)            |                 | 0,0031 mg/l  |     |               |        |         |
| .alpha.,.alpha.-Dimethylbenzyl hydroperoxide 80-15-9         | aqua (marine water)          |                 | 0,00031 mg/l |     |               |        |         |

|   |                                 |  |            |  |              |  |  |
|---|---------------------------------|--|------------|--|--------------|--|--|
| .alpha.,.alpha.-Dimethylbenzyl hydroperoxide<br>80-15-9 | aqua<br>(intermittent releases) |  | 0,031 mg/l |  |              |  |  |
| .alpha.,.alpha.-Dimethylbenzyl hydroperoxide<br>80-15-9 | Sewage treatment plant          |  | 0,35 mg/l  |  |              |  |  |
| .alpha.,.alpha.-Dimethylbenzyl hydroperoxide<br>80-15-9 | sediment<br>(freshwater)        |  |            |  | 0,023 mg/kg  |  |  |
| .alpha.,.alpha.-Dimethylbenzyl hydroperoxide<br>80-15-9 | sediment<br>(marine water)      |  |            |  | 0,0023 mg/kg |  |  |
| .alpha.,.alpha.-Dimethylbenzyl hydroperoxide<br>80-15-9 | soil                            |  |            |  | 0,0029 mg/kg |  |  |
| Methacrylic acid<br>79-41-4                             | aqua<br>(freshwater)            |  | 0,82 mg/l  |  |              |  |  |
| Methacrylic acid<br>79-41-4                             | aqua (marine water)             |  | 0,82 mg/l  |  |              |  |  |
| Methacrylic acid<br>79-41-4                             | sewage treatment plant (STP)    |  | 10 mg/l    |  |              |  |  |
| Methacrylic acid<br>79-41-4                             | aqua<br>(intermittent 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 |
|---|--------------------|-------------------|---|---------------|------------------------|---------|
| 2,2'-Ethylenedioxydiethyl dimethacrylate<br>109-16-0            | Workers            | inhalation        | Long term exposure - systemic effects     |               | 48,5 mg/m <sup>3</sup> |         |
| 2,2'-Ethylenedioxydiethyl dimethacrylate<br>109-16-0            | Workers            | dermal            | Long term exposure - systemic effects     |               | 13,9 mg/kg             |         |
| 2,2'-Ethylenedioxydiethyl dimethacrylate<br>109-16-0            | General population | inhalation        | Long term exposure - systemic effects     |               | 14,5 mg/m <sup>3</sup> |         |
| 2,2'-Ethylenedioxydiethyl dimethacrylate<br>109-16-0            | General population | dermal            | Long term exposure - systemic effects     |               | 8,33 mg/kg             |         |
| 2,2'-Ethylenedioxydiethyl dimethacrylate<br>109-16-0            | General population | oral              | Long term exposure - systemic effects     |               | 8,33 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/m <sup>3</sup> |         |
| 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/m <sup>3</sup>  |         |
| 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/m <sup>3</sup>   |         |
| Acrylic acid<br>79-10-7   | Workers            | inhalation        | Acute/short term exposure - local effects |               | 30 mg/m <sup>3</sup>   |         |
| Acrylic acid<br>79-10-7   | Workers            | dermal            | Acute/short term exposure - local effects |               | 1 mg/cm <sup>2</sup>   |         |
| Acrylic acid<br>79-10-7   | General population | dermal            | Acute/short term exposure - local effects |               | 1 mg/cm <sup>2</sup>   |         |
| Acrylic acid<br>79-10-7   | General population | inhalation        | Acute/short term exposure - local effects |               | 3,6 mg/m <sup>3</sup>  |         |
| Acrylic acid<br>79-10-7   | General population | inhalation        | Long term exposure - local effects        |               | 3,6 mg/m <sup>3</sup>  |         |
| .alpha.,.alpha.-Dimethylbenzyl hydroperoxide<br>80-15-9         | Workers            | inhalation        | Long term exposure - systemic effects     |               | 6 mg/m <sup>3</sup>    |         |
| Methacrylic acid<br>79-41-4                                     | Workers            | Inhalation        | Long term exposure - local effects        |               | 88 mg/m <sup>3</sup>   |         |
| Methacrylic acid<br>79-41-4                                     | Workers            | Inhalation        | Long term exposure - systemic effects     |               | 29,6 mg/m <sup>3</sup> |         |
| 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/m <sup>3</sup> |         |
| Methacrylic acid<br>79-41-4                                     | General population | Inhalation        | Long term exposure - systemic effects     |               | 6,3 mg/m <sup>3</sup>  |         |
| Methacrylic acid<br>79-41-4                                     | General population | dermal            | Long term exposure - systemic effects     |               | 2,55 mg/kg             |         |



**Biological Exposure Indices:**

None

**8.2. Exposure controls:**

Engineering controls:  
Ensure good ventilation/extraction.

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

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

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

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

Advices to personal protection equipment:

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

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

|                                    |                                    |
|------------------------------------|------------------------------------|
| Appearance                         | liquid<br>green                    |
| Odor                               | characteristic                     |
| Odour threshold                    | No data available / Not applicable |
| pH                                 | No data available / Not applicable |
| Melting point                      | No data available / Not applicable |
| Solidification temperature         | No data available / Not applicable |
| Initial boiling point              | No data available / Not applicable |
| Flash point                        | > 100 °C (> 212 °F)                |
| Evaporation rate                   | No data available / Not applicable |
| Flammability                       | No data available / Not applicable |
| Explosive limits                   | No data available / Not applicable |
| Vapour pressure<br>(20 °C (68 °F)) | < 4 mbar                           |
| Relative vapour density:           | No data available / Not applicable |
| Density<br>( )                     | 1,05 g/cm <sup>3</sup>             |

|  |                                    |
|--|------------------------------------|
| Bulk density                                   | No data available / Not applicable |
| Solubility                                     | No data available / Not applicable |
| Solubility (qualitative)<br>(Solvent: Water)   | Not miscible                       |
| Solubility (qualitative)<br>(Solvent: Acetone) | Miscible                           |
| 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

### 10.5. Incompatible materials

See section reactivity.

### 10.6. Hazardous decomposition products

carbon oxides.

May produce fumes when heated to decomposition. Fumes may contain carbon monoxide and other toxic fumes.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### Acute oral toxicity:

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

| Hazardous substances<br>CAS-No.                        | Value<br>type | Value         | Species | Method                                   |
|--|---------------|---------------|---------|--|
| 2,2'-Ethylendioxydiethyl<br>dimethacrylate<br>109-16-0 | LD50          | 10.837 mg/kg  | rat     | not specified                            |
| Hydroxypropyl<br>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          | 550 mg/kg     | rat     | not specified                            |
| Methacrylic acid<br>79-41-4                            | LD50          | 1.320 mg/kg   | rat     | OECD Guideline 401 (Acute Oral Toxicity) |

**Acute dermal toxicity:**

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

| Hazardous substances CAS-No.                         | Value type                    | Value               | Species | Method                                     |
|--|-------------------------------|---------------------|---------|--|
| 2,2'-Ethylenedioxydiethyl dimethacrylate<br>109-16-0 | LD50                          | > 2.000 mg/kg       | mouse   | 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                          | 1.200 - 1.520 mg/kg |         | not specified                              |
| 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 CAS-No. | Value type                    | Value      | Test atmosphere | Exposure 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:**

Non corrosive to skin in accordance with the in vitro test method, B40 skin corrosion - Human skin model assay, equivalent to test method OECD 431 or based on analogy to similar products tested.

| Hazardous substances CAS-No.                         | Result           | Exposure time | Species | Method   |
|--|------------------|---------------|---------|--|
| 2,2'-Ethylenedioxydiethyl dimethacrylate<br>109-16-0 | not irritating   | 24 h          | rabbit  | Draize Test  |
| 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 CAS-No.                         | Result         | Exposure time | Species | Method  |
|--|----------------|---------------|---------|---|
| 2,2'-Ethylenedioxydiethyl dimethacrylate<br>109-16-0 | not irritating |               | rabbit  | OECD Guideline 405 (Acute Eye Irritation / Corrosion) |
| 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  |
|--|-----------------|------------------------------------|------------|---|
| 2,2'-Ethylenedioxydiethyl dimethacrylate<br>109-16-0 | sensitising     | Mouse local lymphnode assay (LLNA) | mouse      | OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay) |
| 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  |
|--|----------|--|--|---------|---|
| 2,2'-Ethylenedioxydiethyl dimethacrylate<br>109-16-0 | negative | mammalian cell gene mutation assay   | with and without                           |         | OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)   |
| 2,2'-Ethylenedioxydiethyl dimethacrylate<br>109-16-0 | negative | bacterial reverse mutation assay (e.g Ames test)                                   | with and without                           |         | OECD Guideline 471 (Bacterial Reverse Mutation Assay)   |
| 2,2'-Ethylenedioxydiethyl dimethacrylate<br>109-16-0 | negative | in vitro mammalian cell micronucleus test  | with and without                           |         | OECD Guideline 487 (In vitro Mammalian Cell Micronucleus 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)   |
| Hydroxypropyl methacrylate<br>27813-02-1             | negative | oral: gavage   |  | rat     | OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)  |
| Acrylic acid<br>79-10-7                              | negative | oral: gavage   |  | rat     | OECD Guideline 475 (Mammalian Bone Marrow Chromosome Aberration Test)   |
| Cumene hydroperoxide<br>80-15-9                      | negative | dermal   |  | mouse   | not specified   |
| Methacrylic acid<br>79-41-4                          | negative | inhalation   |  | mouse   | OECD Guideline 478 (Genetic Toxicology: Rodent Dominant Lethal Test)  |

**Carcinogenicity**

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

| Hazardous components CAS-No.             | Result           | Route of application | Exposure time / Frequency of treatment             | Species | Sex         | Method                                       |
|--|------------------|----------------------|--|---------|-------------|--|
| Hydroxypropyl methacrylate<br>27813-02-1 | not carcinogenic | inhalation           | 2 years (102 weeks)<br>6 hours/day,<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 CAS-No.                        | Result / Value   | Test type            | Route of application | Species | Method   |
|---|--|----------------------|----------------------|---------|--|
| 2,2'-Ethylendioxydiethyl dimethacrylate<br>109-16-0 | NOAEL P 1.000 mg/kg<br>NOAEL F1 1.000 mg/kg                  |                      | oral: gavage         | rat     | OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test) |
| Hydroxypropyl methacrylate<br>27813-02-1            | NOAEL P 400 mg/kg  | two-generation study | oral: gavage         | rat     | OECD Guideline 416 (Two-Generation Reproduction Toxicity Study)  |
| Acrylic acid<br>79-10-7                             | NOAEL P 240 mg/kg<br>NOAEL F2 53 mg/l                        |                      | oral: drinking water | rat     | OECD Guideline 416 (Two-Generation Reproduction 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 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 CAS-No.                        | Result / Value    | Route of application | Exposure time / Frequency of treatment | Species | Method   |
|---|-------------------|----------------------|--|---------|--|
| 2,2'-Ethylendioxydiethyl dimethacrylate<br>109-16-0 | NOAEL 1.000 mg/kg | oral: gavage         | daily                                  | rat     | OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test) |
| Hydroxypropyl methacrylate<br>27813-02-1            | NOAEL 300 mg/kg   | oral: gavage         |  | rat     | OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test) |
| Cumene hydroperoxide<br>80-15-9                     |                   | inhalation: aerosol  | 6 h/d<br>5 d/w                         | rat     | not specified  |

**Aspiration hazard:**

No data available.

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

Precautions required with respect to Environmental Hazards of articles in which this product is used should be considered.  
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 CAS-No.                         | Value type | Value     | Exposure time | Species   | Method   |
|--|------------|-----------|---------------|---|--|
| 2,2'-Ethylenedioxydiethyl dimethacrylate<br>109-16-0 | LC50       | 16,4 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 CAS-No.             | Value type | Value      | Exposure time | Species       | Method   |
|--|------------|------------|---------------|---------------|--|
| 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 CAS-No.                         | Value type | Value     | Exposure time | Species       | Method   |
|--|------------|-----------|---------------|---------------|--|
| 2,2'-Ethylenedioxydiethyl dimethacrylate<br>109-16-0 | NOEC       | 32 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  |
|--|---------------|-------------|---------------|---|---|
| 2,2'-Ethylenedioxydiethyl dimethacrylate<br>109-16-0 | EC50          | > 100 mg/l  | 72 h          | Pseudokirchneriella subcapitata                                       | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| 2,2'-Ethylenedioxydiethyl dimethacrylate<br>109-16-0 | NOEC          | 18,6 mg/l   | 72 h          | Pseudokirchneriella subcapitata                                       | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| Hydroxypropyl methacrylate<br>27813-02-1             | EC50          | > 97,2 mg/l | 72 h          | Pseudokirchneriella subcapitata                                       | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| Hydroxypropyl methacrylate<br>27813-02-1             | NOEC          | > 97,2 mg/l | 72 h          | Pseudokirchneriella subcapitata                                       | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| Acrylic acid<br>79-10-7                              | EC10          | 0,03 mg/l   | 72 h          | Scenedesmus subspicatus (new name: Desmodesmus subspicatus)           | EU Method C.3 (Algal Inhibition test)             |
| Acrylic acid<br>79-10-7                              | EC50          | 0,13 mg/l   | 72 h          | Scenedesmus subspicatus (new name: Desmodesmus subspicatus)           | EU Method C.3 (Algal Inhibition test)             |
| Cumene hydroperoxide<br>80-15-9                      | ErC50         | 3,1 mg/l    | 72 h          | Pseudokirchneriella subcapitata                                       | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| Methacrylic acid<br>79-41-4                          | NOEC          | 8,2 mg/l    | 72 h          | Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata) | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| Methacrylic acid<br>79-41-4                          | EC50          | 45 mg/l     | 72 h          | Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata) | OECD Guideline 201 (Alga, Growth Inhibition Test) |

**Toxicity to microorganisms**

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

| Hazardous substances<br>CAS-No.          | Value<br>type | Value      | Exposure time | Species                    | Method   |
|--|---------------|------------|---------------|----------------------------|--|
| 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 Inhibition of Oxygen Consumption by Activated 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**

No data available for the product.

| Hazardous substances<br>CAS-No.                      | Result                   | Test type | Degradability | Exposure time | Method  |
|--|--------------------------|-----------|---------------|---------------|---|
| 2,2'-Ethylenedioxydiethyl dimethacrylate<br>109-16-0 | readily biodegradable    | aerobic   | 85 %          | 28 d          | OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution 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: CO2 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 for the product.

| Hazardous substances<br>CAS-No. | Bioconcentration factor (BCF) | Exposure time | Temperature | Species     | Method  |
|---------------------------------|-------------------------------|---------------|-------------|-------------|---|
| 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   |
|--|--------|-------------|--|
| 2,2'-Ethylenedioxydiethyl dimethacrylate<br>109-16-0 | 2,3    |             | 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) |

### 12.5. Results of PBT and vPvB assessment

| Hazardous substances<br>CAS-No.                      | PBT / vPvB  |
|--|---|
| 2,2'-Ethylenedioxydiethyl dimethacrylate<br>109-16-0 | 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.

Contribution of this product to waste is very insignificant in comparison to article in which it is used

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**

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

**14.2. UN proper shipping name**

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

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

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

**14.4. Packing group**

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

**14.5. Environmental hazards**

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

**14.6. Special precautions for user**

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

**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 < 5 %  
(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.
- H302 Harmful if swallowed.
- H311 Toxic in contact with skin.
- H312 Harmful in contact with skin.
- H314 Causes severe skin burns and eye damage.
- 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.
- 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.

**Further information:**

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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.**