

**Safety data sheet  
 according to 1907/2006/EC, Article 31**

Printing date 06.02.2023

Version number 2

Revision: 03.02.2023

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

- **1.1 Product identifier**
  - Trade name: **HeraGel Studio ONE**
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**  
 No further relevant information available.
  - **Application of the substance / the mixture** UV-Curing gel for modelling artificial nails
- **1.3 Details of the supplier of the safety data sheet**
  - **Manufacturer/Supplier:**  
 Kulzer GmbH  
 Leipziger Straße 2, 63450 Hanau (Germany)  
 Tel.: +49 (0)6181 9689-2570 (Wehrheim)
  - **Informing department:** email: [technik.wehrheim@kulzer-dental.com](mailto:technik.wehrheim@kulzer-dental.com)
- **1.4 Emergency telephone number:** Emergency CONTACT (24-Hour-Number): +49 (0)6132-84463

**SECTION 2: Hazards identification**

- **2.1 Classification of the substance or mixture**
  - **Classification according to Regulation (EC) No 1272/2008**  
 Eye Irrit. 2 H319 Causes serious eye irritation.  
 Skin Sens. 1 H317 May cause an allergic skin reaction.
- **2.2 Label elements**
  - **Labelling according to Regulation (EC) No 1272/2008**  
 The product is classified and labelled according to the GB CLP regulation.
  - **Hazard pictograms**



GHS07

- **Signal word** Warning
- **Hazard-determining components of labelling:**  
 triethylen glycol dimethacrylate  
 methacrylic acid, monoester with propane-1,2-diol  
 2-hydroxyethyl acrylate  
 methyl benzoylformate
- **Hazard statements**  
 H319 Causes serious eye irritation.  
 H317 May cause an allergic skin reaction.
- **Precautionary statements**

|                |  |
|----------------|--|
| P280           | Wear protective gloves / eye protection / face protection.   |
| P302+P352      | IF ON SKIN: Wash with plenty of soap and water.  |
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P333+P313      | If skin irritation or rash occurs: Get medical advice/attention.   |
| P337+P313      | If eye irritation persists: Get medical advice/attention.  |
| P362+P364      | Take off contaminated clothing and wash it before reuse.   |
- **2.3 Other hazards -**
  - **Results of PBT and vPvB assessment**
    - **PBT:** Not applicable.

(Contd. on page 2)

GB

**Safety data sheet  
 according to 1907/2006/EC, Article 31**

Printing date 06.02.2023

Version number 2

Revision: 03.02.2023

**Trade name: HeraGel Studio ONE**

· **vPvB:** Not applicable.

(Contd. of page 1)

**SECTION 3: Composition/information on ingredients**

· **3.2 Mixtures**

· **Description:** -

· **Dangerous components:**

|  |   |          |
|--|---|----------|
| CAS: 109-16-0<br>EINECS: 203-652-6<br>Reg.nr.: 01-2119969287-21-xxxx   | triethylen glycol dimethacrylate<br>Skin Sens. 1B, H317   | 50-75%   |
| CAS: 27813-02-1<br>EINECS: 248-666-3<br>Reg.nr.: 01-2119490226-37-xxxx | methacrylic acid, monoester with propane-1,2-diol<br>Eye Irrit. 2, H319; Skin Sens. 1, H317   | 10-25%   |
| CAS: 30697-40-6  | 2-Acryloyloxyethylhydrogen phthalate<br>Skin Irrit. 2, H315; Eye Irrit. 2, H319   | 0-5%     |
| CAS: 15206-55-0<br>EINECS: 239-263-3<br>Reg.nr.: 01-2120101338-67-xxxx | methyl benzoylformate<br>Skin Sens. 1, H317   | ≥0.1-<1% |
| CAS: 80-62-6<br>EINECS: 201-297-1<br>Reg.nr.: 01-2119452498-28-xxxx    | methyl methacrylate<br>Flam. Liq. 2, H225<br>Skin Irrit. 2, H315; Skin Sens. 1, H317; STOT SE 3, H335   | ≥0.1-<1% |
| CAS: 818-61-1<br>EINECS: 212-454-9<br>Reg.nr.: 01-2119459345-34-xxxx   | 2-hydroxyethyl acrylate<br>Acute Tox. 3, H311<br>Skin Corr. 1B, H314<br>Aquatic Acute 1, H400<br>Skin Sens. 1, H317<br>ATE: LD50 dermal: 300 mg/kg<br>Specific concentration limit:<br>Skin Sens. 1; H317: C ≥0.2 % | ≥0.2-<1% |

· **Additional information** For the wording of the listed hazard phrases refer to section 16.

**SECTION 4: First aid measures**

· **4.1 Description of first aid measures**

· **General information** Personal protection for the First Aider.

· **After inhalation**

Supply fresh air; consult doctor in case of symptoms.

Seek medical treatment in case of complaints.

· **After skin contact**

Instantly wash with water and soap and rinse thoroughly.

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

· **After eye contact**

Remove contact lenses, if present and easy to do. Continue rinsing.

Rinse opened eye for several minutes under running water. If symptoms persist, consult doctor.

· **After swallowing**

Rinse out mouth and then drink plenty of water.

In case of persistent symptoms consult doctor.

· **4.2 Most important symptoms and effects, both acute and delayed Allergic reactions**

(Contd. on page 3)

GB

**Safety data sheet  
 according to 1907/2006/EC, Article 31**

Printing date 06.02.2023

Version number 2

Revision: 03.02.2023

**Trade name: HeraGel Studio ONE**

- **4.3 Indication of any immediate medical attention and special treatment needed**  
 No further relevant information available.

(Contd. of page 2)

## **SECTION 5: Firefighting measures**

- **5.1 Extinguishing media**
  - **Suitable extinguishing agents**  
 CO<sub>2</sub>, extinguishing powder or water jet. Fight larger fires with water jet.
  - **For safety reasons unsuitable extinguishing agents** Water with a full water jet.
- **5.2 Special hazards arising from the substance or mixture**  
 Formation of toxic gases is possible during heating or in case of fire.  
 Can be released in case of fire  
 Carbon dioxide (CO<sub>2</sub>)  
 Carbon monoxide (CO)
- **5.3 Advice for firefighters**
  - **Protective equipment:**  
 Wear self-contained breathing apparatus.  
 (EN 133)
  - **Additional information -**

## **SECTION 6: Accidental release measures**

- **6.1 Personal precautions, protective equipment and emergency procedures**  
 Avoid contact with eyes and skin.  
 Wear protective equipment. Keep unprotected persons away.
- **6.2 Environmental precautions:**  
 Prevent material from reaching sewage system, holes and cellars.  
 Damp down gases/fumes/haze with water spray jet.
- **6.3 Methods and material for containment and cleaning up:**  
 Dispose of the material collected according to regulations.  
 Send for recovery or disposal in suitable containers.  
 Absorb with liquid-binding material (diatomite, universal binders, for small amounts tissues).
- **6.4 Reference to other sections**  
 See Section 7 for information on safe handling  
 See Section 8 for information on personal protection equipment.

## **SECTION 7: Handling and storage**

- **7.1 Precautions for safe handling**  
 Avoid contact with eyes and skin.  
 Store in cool, dry place in tightly closed containers.  
 Keep away from heat and direct sunlight.  
 Ensure good ventilation/exhaustion at the workplace.
- **Information about protection against explosions and fires:**  
 Protect from heat.  
 Keep ignition sources away - Do not smoke.
- **Handling**  
 do not mix with  
 reducing agent  
 organic peroxides  
 Strong bases  
 Strong oxidizers  
 Strong acids

(Contd. on page 4)

GB

**Safety data sheet**  
**according to 1907/2006/EC, Article 31**

Printing date 06.02.2023

Version number 2

Revision: 03.02.2023

**Trade name: HeraGel Studio ONE**

Radical initiator

(Contd. of page 3)

- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage**
  - **Requirements to be met by storerooms and containers:**  
 Store in cool, dry place in tightly closed containers.  
 Protect from the effects of light.
  - **Information about storage in one common storage facility:** Not required.
  - **Further information about storage conditions:** Protect from heat and direct sunlight.
- **7.3 Specific end use(s)** No further relevant information available.

**SECTION 8: Exposure controls/personal protection**

· **8.1 Control parameters**

· **Components with critical values that require monitoring at the workplace:**

**80-62-6 methyl methacrylate**

|                        |  |
|------------------------|--|
| WEL (Great Britain)    | Short-term value: 416 mg/m <sup>3</sup> , 100 ppm<br>Long-term value: 208 mg/m <sup>3</sup> , 50 ppm |
| IOELV (European Union) | Short-term value: 100 ppm<br>Long-term value: 50 ppm   |

· **DNELs**

**109-16-0 triethylen glycol dimethacrylate**

|            |   |                                      |
|------------|---|--------------------------------------|
| Oral       | general population, long term, systemic | 8.33 mg/Kg (not defined)             |
| Dermal     | worker industrial, long term, systemic  | 13.9 mg/Kg/d (not defined)           |
|            | general population, long term, systemic | 8.33 mg/Kg/d (not defined)           |
| Inhalative | worker industrial, long term, systemic  | 48.5 mg/m <sup>3</sup> (not defined) |
|            | general population, long term, systemic | 14.5 mg/m <sup>3</sup> (not defined) |

**27813-02-1 methacrylic acid, monoester with propane-1,2-diol**

|            |   |                                      |
|------------|---|--------------------------------------|
| Oral       | general population, long term, systemic | 2.5 mg/Kg (not defined)              |
| Dermal     | worker industrial, long term, systemic  | 4.2 mg/Kg/d (not defined)            |
|            | general population, long term, systemic | 2.5 mg/Kg/d (not defined)            |
| Inhalative | worker industrial, long term, systemic  | 14.7 mg/m <sup>3</sup> (not defined) |
|            | general population, long term, systemic | 8.8 mg/m <sup>3</sup> (not defined)  |

**15206-55-0 methyl benzoylformate**

|        |   |                            |
|--------|---|----------------------------|
| Oral   | general population, long term, systemic | 1.67 mg/Kg (not defined)   |
| Dermal | worker industrial, long term, systemic  | 3.33 mg/Kg/d (not defined) |
|        | general population, long term, systemic | 1.67 mg/Kg/d (not defined) |

**80-62-6 methyl methacrylate**

|            |   |                                       |
|------------|---|---------------------------------------|
| Oral       | general population, long term, systemic | 8.2 mg/Kg (not defined)               |
| Dermal     | worker industrial, long term, systemic  | 13.67 mg/Kg/d (not defined)           |
|            | general population, long term, systemic | 8.2 mg/Kg/d (not defined)             |
| Inhalative | worker industrial, acute, local         | 416 mg/m <sup>3</sup> (not defined)   |
|            | worker industrial, long term, systemic  | 348.4 mg/m <sup>3</sup> (not defined) |
|            | worker industrial, long term, local     | 208 mg/m <sup>3</sup> (not defined)   |
|            | general population, acute, local        | 208 mg/m <sup>3</sup> (not defined)   |
|            | general population, long term, systemic | 74.3 mg/m <sup>3</sup> (not defined)  |

(Contd. on page 5)

GB

**Safety data sheet**  
**according to 1907/2006/EC, Article 31**

Printing date 06.02.2023

Version number 2

Revision: 03.02.2023

**Trade name: HeraGel Studio ONE**

(Contd. of page 4)

**818-61-1 2-hydroxyethyl acrylate**

|                   |   |                                |
|-------------------|---|--------------------------------|
| <i>Inhalative</i> | <i>worker industrial, long term, local</i>  | <i>2.4 mg/m3 (not defined)</i> |
|                   | <i>general population, long term, local</i> | <i>1.2 mg/m3 (not defined)</i> |

**· PNECs**

**109-16-0 triethylen glycol dimethacrylate**

|   |                                  |
|---|----------------------------------|
| <i>freshwater</i>                         | <i>0.016 mg/l (not defined)</i>  |
| <i>marine water</i>                       | <i>0.002 mg/l (not defined)</i>  |
| <i>sewage treatment plant</i>             | <i>1.7 mg/l (not defined)</i>    |
| <i>sediment, dry weight, freshwater</i>   | <i>0.185 mg/Kg (not defined)</i> |
| <i>sediment, dry weight, marine water</i> | <i>0.018 mg/Kg (not defined)</i> |
| <i>soil, dry weight</i>                   | <i>0.027 mg/Kg (not defined)</i> |

**27813-02-1 methacrylic acid, monoester with propane-1,2-diol**

|   |                                  |
|---|----------------------------------|
| <i>freshwater</i>                         | <i>0.904 mg/l (not defined)</i>  |
| <i>marine water</i>                       | <i>0.904 mg/l (not defined)</i>  |
| <i>sewage treatment plant</i>             | <i>10 mg/l (not defined)</i>     |
| <i>sediment, dry weight, freshwater</i>   | <i>6.28 mg/Kg (not defined)</i>  |
| <i>sediment, dry weight, marine water</i> | <i>6.28 mg/Kg (not defined)</i>  |
| <i>soil, dry weight</i>                   | <i>0.727 mg/Kg (not defined)</i> |

**15206-55-0 methyl benzoylformate**

|   |                                  |
|---|----------------------------------|
| <i>freshwater</i>                         | <i>0.069 mg/l (not defined)</i>  |
| <i>marine water</i>                       | <i>0.007 mg/l (not defined)</i>  |
| <i>sewage treatment plant</i>             | <i>39 mg/l (not defined)</i>     |
| <i>sediment, dry weight, freshwater</i>   | <i>0.47 mg/Kg (not defined)</i>  |
| <i>sediment, dry weight, marine water</i> | <i>0.047 mg/Kg (not defined)</i> |
| <i>soil, dry weight</i>                   | <i>0.027 mg/Kg (not defined)</i> |

**80-62-6 methyl methacrylate**

|   |                                  |
|---|----------------------------------|
| <i>freshwater</i>                         | <i>0.94 mg/l (not defined)</i>   |
| <i>marine water</i>                       | <i>0.094 mg/l (not defined)</i>  |
| <i>sewage treatment plant</i>             | <i>10 mg/l (not defined)</i>     |
| <i>sediment, dry weight, freshwater</i>   | <i>10.2 mg/Kg (not defined)</i>  |
| <i>sediment, dry weight, marine water</i> | <i>0.102 mg/Kg (not defined)</i> |
| <i>soil, dry weight</i>                   | <i>1.48 mg/Kg (not defined)</i>  |

**818-61-1 2-hydroxyethyl acrylate**

|   |                                  |
|---|----------------------------------|
| <i>freshwater</i>                         | <i>0.017 mg/l (not defined)</i>  |
| <i>marine water</i>                       | <i>0.002 mg/l (not defined)</i>  |
| <i>sewage treatment plant</i>             | <i>10 mg/l (not defined)</i>     |
| <i>sediment, dry weight, freshwater</i>   | <i>0.064 mg/Kg (not defined)</i> |
| <i>sediment, dry weight, marine water</i> | <i>0.006 mg/Kg (not defined)</i> |
| <i>soil, dry weight</i>                   | <i>0.003 mg/Kg (not defined)</i> |

**· Additional information:** The lists that were valid during the compilation were used as basis.

**· 8.2 Exposure controls**

**· Individual protection measures, such as personal protective equipment**

**· General protective and hygienic measures**

Keep away from foodstuffs, beverages and food.

The usual precautionary measures should be adhered to in handling the chemicals.

(Contd. on page 6)

GB

## Safety data sheet according to 1907/2006/EC, Article 31

Printing date 06.02.2023

Version number 2

Revision: 03.02.2023

**Trade name: HeraGel Studio ONE**

(Contd. of page 5)

Instantly remove any soiled and impregnated garments.

Wash hands during breaks and at the end of the work.

Avoid contact with the eyes and skin.

· **Breathing equipment:** Use breathing protection in case of insufficient ventilation.

· **Hand protection**

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Check protective gloves prior to each use for their proper condition.

chemical protection gloves are suitable, which are tested according to EN 374

· **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

NBR: acrylonitrile-butadiene rubber (0,11 mm)

· **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye/face protection** eye protection (EN 166)

· **Body protection:** Light weight protective clothing

· **Environmental exposure controls** Do not allow to enter the ground/soil.

### SECTION 9: Physical and chemical properties

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

##### · General Information

· **Physical state**

Fluid

· **Colour:**

Colourless

· **Smell:**

Characteristic

· **Odour threshold:**

Not determined.

· **Melting point/freezing point:**

Not determined

· **Boiling point or initial boiling point and boiling range**

209 °C (27813-02-1 methacrylic acid, monoester with propane-1,2-diol)

Not applicable.

· **Flammability**

· **Lower and upper explosion limit**

· **Lower:**

Not determined.

· **Upper:**

Not determined.

· **Flash point:**

98 °C (818-61-1 2-hydroxyethyl acrylate)

· **Ignition temperature:**

255 °C (109-16-0 triethylen glycol dimethacrylate)

Not determined.

· **Decomposition temperature:**

· **SADT**

· **pH**

Not determined.

· **Viscosity:**

· **Kinematic viscosity**

Not determined.

· **dynamic:**

Not determined.

· **Solubility**

· **Water:**

Not miscible or difficult to mix

· **Partition coefficient n-octanol/water (log value)**

Not determined.

(Contd. on page 7)

GB



**Safety data sheet**  
**according to 1907/2006/EC, Article 31**

Printing date 06.02.2023

Version number 2

Revision: 03.02.2023

**Trade name: HeraGel Studio ONE**

(Contd. of page 6)

|  |  |
|--|--|
| · <b>Steam pressure at 20 °C:</b>  | 0.1 hPa                                      |
| · <b>Density and/or relative density</b>   |  |
| · <b>Density</b>   | Not determined                               |
| · <b>Relative density</b>  | Not determined.                              |
| · <b>Vapour density</b>  | Not determined.                              |
| · <b>9.2 Other information</b>   | No further relevant information available.   |
| · <b>Appearance:</b>   |  |
| · <b>Form:</b>   | Fluid  |
| · <b>Important information on protection of health and environment, and on safety.</b> |  |
| · <b>Self-inflammability:</b>  | Product is not selfigniting.                 |
| · <b>Explosive properties:</b>   | Product is not explosive.<br>Not determined. |
| · <b>Change in condition</b>   |  |
| · <b>Evaporation rate</b>  | Not determined.                              |
| · <b>Information with regard to physical hazard classes</b>                            |  |
| · <b>Explosives</b>  | Void   |
| · <b>Flammable gases</b>   | Void   |
| · <b>Aerosols</b>  | Void   |
| · <b>Oxidising gases</b>   | Void   |
| · <b>Gases under pressure</b>  | Void   |
| · <b>Flammable liquids</b>   | Void   |
| · <b>Flammable solids</b>  | Void   |
| · <b>Self-reactive substances and mixtures</b>   | Void   |
| · <b>Pyrophoric liquids</b>  | Void   |
| · <b>Pyrophoric solids</b>   | Void   |
| · <b>Self-heating substances and mixtures</b>  | Void   |
| · <b>Substances and mixtures, which emit flammable gases in contact with water</b>     | Void   |
| · <b>Oxidising liquids</b>   | Void   |
| · <b>Oxidising solids</b>  | Void   |
| · <b>Organic peroxides</b>   | Void   |
| · <b>Corrosive to metals</b>   | Void   |
| · <b>Desensitised explosives</b>   | Void   |

**SECTION 10: Stability and reactivity**

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
  - **Conditions to be avoided:** No decomposition if used and stored according to specifications.
- **10.3 Possibility of hazardous reactions** Exothermic polymerisation
- **10.4 Conditions to avoid** Heat, flames and sparks.
- **10.5 Incompatible materials:**
  - Radical initiator
  - reducing agent
  - Strong bases
  - Strong oxidizers
  - organic peroxides
- **10.6 Hazardous decomposition products:** None

GB

(Contd. on page 8)

**Safety data sheet  
 according to 1907/2006/EC, Article 31**

Printing date 06.02.2023

Version number 2

Revision: 03.02.2023

**Trade name: HeraGel Studio ONE**

(Contd. of page 7)

**SECTION 11: Toxicological information**

**11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**

· **Acute toxicity** Based on available data, the classification criteria are not met.

· **LD/LC50 values that are relevant for classification:**

**109-16-0 triethylen glycol dimethacrylate**

|        |      |                      |
|--------|------|----------------------|
| Oral   | LD50 | 8,300 mg/kg (rat)    |
| Dermal | LD50 | >2,000 mg/kg (mouse) |

**27813-02-1 methacrylic acid, monoester with propane-1,2-diol**

|        |      |                               |
|--------|------|-------------------------------|
| Oral   | LD50 | >2,000 mg/kg (rat) (OECD 401) |
| Dermal | LD50 | >5,000 mg/kg (rabbit)         |

**15206-55-0 methyl benzoylformate**

|        |      |                                     |
|--------|------|-------------------------------------|
| Oral   | LD50 | 6,800-10,000 mg/kg (rat) (OECD 401) |
| Dermal | LD50 | >2,000 mg/kg (rat) (OECD 402)       |

**80-62-6 methyl methacrylate**

|            |          |                                      |
|------------|----------|--------------------------------------|
| Oral       | LD50     | ~7,900 mg/kg (rat)                   |
| Dermal     | LD50     | >5,000 mg/kg (guinea pig) (OECD 402) |
| Inhalative | LC50/4 h | 29.8 mg/l (rat)                      |

**818-61-1 2-hydroxyethyl acrylate**

|        |      |                 |
|--------|------|-----------------|
| Dermal | LD50 | 300 mg/kg (ATE) |
|--------|------|-----------------|

· **Skin corrosion/irritation** Based on available data, the classification criteria are not met.

· **Serious eye damage/irritation** Causes serious eye irritation.

· **Respiratory or skin sensitisation** May cause an allergic skin reaction.

· **Germ cell mutagenicity** Based on available data, the classification criteria are not met.

· **Carcinogenicity** Based on available data, the classification criteria are not met.

· **Reproductive toxicity** Based on available data, the classification criteria are not met.

· **STOT-single exposure** Based on available data, the classification criteria are not met.

· **STOT-repeated exposure** Based on available data, the classification criteria are not met.

· **Aspiration hazard** Based on available data, the classification criteria are not met.

**11.2 Information on other hazards**

· **Endocrine disrupting properties**

None of the ingredients is listed.

**SECTION 12: Ecological information**

**12.1 Toxicity**

· **Aquatic toxicity:**

**109-16-0 triethylen glycol dimethacrylate**

|              |                                |
|--------------|--------------------------------|
| EC50/21d     | 51.9 mg/L (daphnia) (OECD 211) |
| LC50/96h     | 16.4 mg/l (fish) (OECD 203)    |
| NOEC / 21d   | 32 mg/l (daphnia) (OECD 211)   |
| ErC50 / 72 h | >100 mg/l (algae) (OECD 201)   |
| NOEC / 72h   | 18.6 mg/l (algae) (OECD 201)   |
| EbC50 / 72h  | 72.8 mg/l (algae) (OECD 201)   |

**27813-02-1 methacrylic acid, monoester with propane-1,2-diol**

|          |                    |
|----------|--------------------|
| EC50/72h | >97.2 mg/l (algae) |
|----------|--------------------|

(Contd. on page 9)



**Safety data sheet  
 according to 1907/2006/EC, Article 31**

Printing date 06.02.2023

Version number 2

Revision: 03.02.2023

**Trade name: HeraGel Studio ONE**

(Contd. of page 8)

|              |                                |
|--------------|--------------------------------|
| EC50/48h     | >143 mg/l (daphnia) (OECD 202) |
| NOEC / 21d   | 45.2 mg/l (daphnia) (OECD 211) |
| ErC50 / 72 h | >97.2 mg/l (algae) (OECD 201)  |
| NOEC / 72h   | >97.2 mg/l (algae) (OECD 201)  |
| LC50/48h     | >100 mg/L (fish) (OECD 203)    |

**15206-55-0 methyl benzoylformate**

|              |                                |
|--------------|--------------------------------|
| EC50/48h     | >120 mg/l (daphnia) (OECD 202) |
| LC50/96h     | >120 mg/l (fish) (OECD 203)    |
| ErC50 / 72 h | 94.4 mg/l (algae) (OECD 201)   |
| NOEC / 48h   | ≥120 mg/l (daphnia) (OECD 202) |
| ErC10/72h    | 56.4 mg/L (algae) (OECD 201)   |

**80-62-6 methyl methacrylate**

|              |                                      |
|--------------|--------------------------------------|
| EC50/21d     | 49 mg/L (daphnia) (OECD 211)         |
| EC50/48h     | 69 mg/l (daphnia) (EPA OTS 797.1300) |
| NOEC / 21d   | 37 mg/l (daphnia) (OECD 211)         |
| ErC50 / 72 h | >110 mg/l (algae) (OECD 201)         |
| NOEC / 72h   | 110 mg/l (algae) (OECD 201)          |
| NOEC / 48h   | 48 mg/l (daphnia) (EPA OTS 797.1300) |
| EbC50 / 72h  | >110 mg/l (algae) (OECD 201)         |
| NOEC/ 35d    | 9.4 mg/L (fish) (OECD 210)           |
| LC50/ 35d    | 33.7 mg/L (fish) (OECD 210)          |

**818-61-1 2-hydroxyethyl acrylate**

|              |                                |
|--------------|--------------------------------|
| EL50/48h     | 9.3 mg/L (daphnia) (OECD 202)  |
| EC50/21d     | >3.8 mg/L (daphnia) (OECD 211) |
| NOEC / 21d   | 1.8 mg/l (daphnia) (OECD 211)  |
| ErC50 / 72 h | 6 mg/l (algae) (OECD 201)      |
| NOEC / 72h   | 1 mg/l (algae) (OECD 201)      |
| NOEC / 48h   | 3.4 mg/l (daphnia) (OECD 202)  |

**12.2 Persistence and degradability**

**109-16-0 triethylen glycol dimethacrylate**

|                |  |
|----------------|--|
| Biodegradation | 85 % /28d (not defined) (OECD 301B; ISO/ 9439/ EEC 92/69/V, C.4-C) |
|----------------|--|

**27813-02-1 methacrylic acid, monoester with propane-1,2-diol**

|                |                                     |
|----------------|-------------------------------------|
| Biodegradation | 81 % /28d (not defined) (OECD 301C) |
|----------------|-------------------------------------|

**15206-55-0 methyl benzoylformate**

|                |  |
|----------------|--|
| Biodegradation | 90-100 % /28d (not defined) (OECD 301B; ISO/ 9439/ EEC 92/69/V, C.4-C) |
|----------------|--|

**80-62-6 methyl methacrylate**

|                |                                     |
|----------------|-------------------------------------|
| Biodegradation | 94 % /14d (not defined) (OECD 301C) |
|----------------|-------------------------------------|

· **12.3 Bioaccumulative potential** No further relevant information available.

· **12.4 Mobility in soil** No further relevant information available.

· **12.5 Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

· **12.6 Endocrine disrupting properties**

The product does not contain substances with endocrine disrupting properties.

(Contd. on page 10)

GB

**Safety data sheet**  
**according to 1907/2006/EC, Article 31**

Printing date 06.02.2023

Version number 2

Revision: 03.02.2023

**Trade name: HeraGel Studio ONE**

(Contd. of page 9)

- **12.7 Other adverse effects**
- **Additional ecological information:**
- **General notes:**  
 Do not allow product to reach ground water, water bodies or sewage system.  
 Danger to drinking water if even small quantities leak into soil.

**SECTION 13: Disposal considerations**

- **13.1 Waste treatment methods**
- **Recommendation**  
 Must not be disposed of together with household garbage. Do not allow product to reach sewage system.  
 Disposal must be made according to official regulations.
- **Uncleaned packagings:**
- **Recommendation:**  
 Disposal must be made according to official regulations.  
 Non contaminated packagings can be used for recycling.

**SECTION 14: Transport information**

- |   |                 |
|---|-----------------|
| · <b>14.1 UN number or ID number</b>                                  |                 |
| · <b>ADR, IMDG, IATA</b>  | Void            |
| · <b>14.2 UN proper shipping name</b>                                 |                 |
| · <b>ADR, IMDG, IATA</b>  | Void            |
| · <b>14.3 Transport hazard class(es)</b>                              |                 |
| · <b>ADR, ADN, IMDG, IATA</b>   |                 |
| · <b>Class</b>  | Void            |
| · <b>14.4 Packing group</b>   |                 |
| · <b>ADR, IMDG, IATA</b>  | Void            |
| · <b>14.5 Environmental hazards:</b>                                  | Not applicable. |
| · <b>14.6 Special precautions for user</b>                            | Not applicable. |
| · <b>14.7 Maritime transport in bulk according to IMO instruments</b> | Not applicable. |
| · <b>Transport/Additional information:</b>                            | -               |
| · <b>UN "Model Regulation":</b>                                       | Void            |

**SECTION 15: Regulatory information**

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** None of the ingredients is listed.
- **LIST OF SUBSTANCES SUBJECT TO AUTHORISATION (UK ANNEX XIV)**
- **Information about limitation of use:**  
 Employment restrictions concerning young persons must be observed.  
 Employment restrictions concerning pregnant and lactating women must be observed.

(Contd. on page 11)

**Safety data sheet  
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Revision: 03.02.2023

**Trade name: HeraGel Studio ONE**

(Contd. of page 10)

· **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

**SECTION 16: Other information**

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Relevant phrases**

- H225 Highly flammable liquid and vapour.
- H311 Toxic 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.
- H335 May cause respiratory irritation.
- H400 Very toxic to aquatic life.

· **Abbreviations and acronyms:**

- SADT: Self Accelerating Decomposition Temperature
- ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
- IMDG: International Maritime Code for Dangerous Goods
- IATA: International Air Transport Association
- GHS: Globally Harmonised System of Classification and Labelling of Chemicals
- EINECS: European Inventory of Existing Commercial Chemical Substances
- ELINCS: European List of Notified Chemical Substances
- CAS: Chemical Abstracts Service (division of the American Chemical Society)
- DNEL: Derived No-Effect Level (UK REACH)
- PNEC: Predicted No-Effect Concentration (UK REACH)
- LC50: Lethal concentration, 50 percent
- LD50: Lethal dose, 50 percent
- PBT: Persistent, Bioaccumulative and Toxic
- vPvB: very Persistent and very Bioaccumulative
- Flam. Liq. 2: Flammable liquids – Category 2
- Acute Tox. 3: Acute toxicity – Category 3
- Skin Corr. 1B: Skin corrosion/irritation – Category 1B
- Skin Irrit. 2: Skin corrosion/irritation – Category 2
- Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
- Skin Sens. 1: Skin sensitisation – Category 1
- Skin Sens. 1B: Skin sensitisation – Category 1B
- STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
- Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1

· **Sources**

- (EC) 1272/2008: classification, labelling and packaging of substances and mixtures
- (EC) 1907/2006: UK REACH
- ADR/RID/ADN - IMDG - IATA: transport of dangerous goods by road, rail, inland waterway, with maritime vessels and for the air transport

· **\* Data compared to the previous version altered.**

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