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Revision Number 2.02

**Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING****1.1. Product identifier**

|                               |                     |
|-------------------------------|---------------------|
| <b>Product Code(s)</b>        | SDS-06134 EN E      |
| <b>Product Name</b>           | VeroDent™, MED670   |
| <b>PN (Part Number)</b>       | OBJ-03254           |
| <b>Denmark<br/>PR No</b>      | N/A                 |
| <b>Chemical name</b>          | Acrylic formulation |
| <b>Pure substance/mixture</b> | Mixture             |

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

|                             |   |
|-----------------------------|---|
| <b>Recommended Use</b>      | Printing inks   |
| <b>Uses advised against</b> | This product is a cartridge containing ink. Under normal conditions of use, the substance is released from a cartridge only inside an appropriate printing system, and therefore, exposure is limited |

**1.3. Details of the supplier of the safety data sheet****Importer**

Stratasys EMEA Regional Office  
Airport Boulevard B 120  
77836 Rheinmünster, Germany  
Phone: +49-7229-7772-0

For further information, please contact

**E-mail address** info@Stratasys.com

**1.4. Emergency telephone number**

**Emergency Telephone** +44 1235 239670 - Europe - Multi lingual response

|                       |   |
|-----------------------|---|
| <b>Austria</b>        | Poison Information Centre (AT): +43-(0)1-406 43 43  |
| <b>Belgium</b>        | Poison Centre (BE): +32 70 245 245  |
| <b>Croatia</b>        | Poison Control (CR): +385 1 2348 342  |
| <b>Czech Republic</b> | Poison Control (CS): +420 224 919 293, +420 224 915 402                                   |
| <b>Denmark</b>        | Poison Control Hotline (DK): +45 82 12 12 12  |
| <b>Estonia</b>        | Poison Control (ET): 16662, (+372) 626 93 90  |
| <b>Finland</b>        | Poison Information Centre (FI): +358 9 471 977  |
| <b>France</b>         | ORFILA (FR): + 01 45 42 59 59   |
| <b>Germany</b>        | Poison Centre Berlin (DE): +49 030 30686 790 (24 h service, Advice in German and English) |
| <b>Greece</b>         | Poison Information Center (EL): (0030) 2107793777   |
| <b>Hungary</b>        | Poison Information Service (HU): (+ 36-80) 201-199  |

|             |  |
|-------------|--|
| Iceland     | Poison Information Center: 543 2222                                |
| Italy       | Poison Centre, Milan (IT): +39 02 6610 1029                        |
| Latvia      | Poison Information Center (LV): +371 67042473                      |
| Lithuania   | Poison Information Office (LT): +370 5236 20 52 or +370 687 53 378 |
| Luxembourg  | Belgian Poison Center: (+352) 8002-5500                            |
| Netherlands | National Poisons Information Center (NVIC): 030-274 8888           |
| Norway      | Poison Center: 22 59 13 00   |
| Portugal    | Poison Information Centre (PT): +351 21 330 3284                   |
| Spain       | Poison Information Service (ES): +34 91 562 04 20                  |
| Sweden      | 112 – ask for Poisons Information                                  |

## Section 2: HAZARDS IDENTIFICATION

### 2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

|   |                      |
|---|----------------------|
| <b>Skin corrosion/irritation</b>                          | Category 2 - (H315)  |
| <b>Serious eye damage/eye irritation</b>                  | Category 1 - (H318)  |
| <b>Skin sensitisation</b>                                 | Category 1B - (H317) |
| <b>Specific target organ toxicity (single exposure)</b>   | Category 3 - (H335)  |
| <b>Specific target organ toxicity (repeated exposure)</b> | Category 2 - (H373)  |
| <b>Acute aquatic toxicity</b>                             | Category 1 - (H400)  |
| <b>Chronic aquatic toxicity</b>                           | Category 1 - (H410)  |

### 2.2. Label elements

Contains 4-(1-Oxo-2-propenyl)-morpholine, Acrylic acid, Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate, 2-Hydroxy-3-phenoxypropyl acrylate



#### Signal word

Danger

#### Hazard statements

H315 - Causes skin irritation

H317 - May cause an allergic skin reaction

H318 - Causes serious eye damage

H335 - May cause respiratory irritation

H373 - May cause damage to organs through prolonged or repeated exposure

H410 - Very toxic to aquatic life with long lasting effects

#### Precautionary Statements

P101 - If medical advice is needed, have product container or label at hand

P102 - Keep out of reach of children

P260 - Do not breathe dust/fume/gas/mist/vapours/spray

P271 - Use only outdoors or in a well-ventilated area

P273 - Avoid release to the environment

P280 - Wear protective gloves and eye/face protection

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

P310 - Immediately call a POISON CENTER or doctor

P391 - Collect spillage

P405 - Store locked up

P501 - Dispose of contents/ container to an approved waste disposal plant

### 2.3. Other hazards

## Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

## 3.2 Mixtures

| Chemical name                                    | EC No                    | CAS No     | Index no.    | Weight-%  | Classification according to Regulation (EC) No. 1272/2008 [CLP]   | REACH Registration Number |
|--|--------------------------|------------|--------------|-----------|---|---------------------------|
| Proprietary                                      | No information available | -          | -            | 10 - 30   | Skin Irrit. 2 (H315)<br>Eye Irrit. 2 (H319)<br>Skin Sens. 1B (H317)<br>STOT SE 3 (H335)<br>Aquatic Acute 1 (H400)<br>Aquatic Chronic 1 (H410)   | 01-2119957862-25-XXX<br>X |
| Proprietary                                      | No information available | -          | -            | 10 - 30   | Acute Tox. 4 (H302)<br>Eye Dam. 1 (H318)<br>Skin Sens. 1 (H317)<br>STOT RE 2 (H373)   | 01-0000016491-73-XXX<br>X |
| Proprietary                                      | No information available | -          | -            | 10 - 30   | Skin Sens. 1B (H317)  | 01-2120735823-52-XXX<br>X |
| Proprietary                                      | No information available | -          | -            | 3-10      | Skin Sens. 1B (H317)<br>Aquatic Chronic 2 (H411)  | 01-2120051112-76-XXX<br>X |
| Proprietary                                      | Not Listed               | -          | -            | 3-10      | Skin Sens. 1 (H317)   | 01-2119490020-53-XXX<br>X |
| Proprietary                                      | No information available | -          | -            | 1-3       | Repr. 2 (H361f)<br>Skin Sens. 1 (H317)<br>Aquatic Chronic 2 (H411)  | No data available         |
| Titanium dioxide                                 | 236-675-5                | 13463-67-7 | -            | 0.1 - 0.3 | Not classified  | No data available         |
| camphene   | 201-234-8                | 79-92-5    | -            | 0.1 - 0.3 | Flam. Sol. 2 (H228)<br>Eye Irrit. 2 (H319)<br>Aquatic Acute 1 (H400)<br>Aquatic Chronic 1 (H410)  | No data available         |
| Ethoxylated Trimethylolpropane Triacrylate       | -                        | 28961-43-5 | -            | 0.1 - 0.3 | Skin Sens. 1B (H317)<br>Eye Irrit. 2 (H319)   | No data available         |
| Acrylic acid                                     | 201-177-9                | 79-10-7    | 607-061-00-8 | 0.1 - 0.3 | Flam. Liq. 3 (H226)<br>Acute Tox. 4 (H302)<br>Acute Tox. 4 (H312)<br>Acute Tox. 4 (H332)<br>Skin Corr. 1A (H314)<br>Eye Dam. 1 (H318)<br>STOT SE 3 (H335)<br>Aquatic Acute 1 (H400)<br>Aquatic Chronic 2 (H411) | No data available         |
| Glycerol, propoxylated, esters with acrylic acid | 500-114-5                | 52408-84-1 | -            | 0.1 - 0.3 | Eye Irrit. 2 (H319)<br>Skin Sens. 1 (H317)  | No data available         |
| 1,7,7-Trimethyltricyclo[2.2.1.0.2,6]heptane      | 208-083-7                | 508-32-7   | -            | 0.1 - 0.3 | Eye Irrit. 2 (H319)<br>Aquatic Acute 1 (H400)<br>Aquatic Chronic 1 (H410)   | No data available         |
| 2-methoxy-1-methylethyl acetate                  | 203-603-9                | 108-65-6   | -            | <0.1      | Flam. Liq. 3 (H226)<br>STOT SE 3 (H336)   | No data available         |
| Xylene, mixture of isomers                       | 215-535-7                | 1330-20-7  | 601-022-00-9 | <0.1      | Flam. Liq. 3 (H226)<br>Acute Tox. 4 (H312)<br>Acute Tox. 4 (H332)<br>Skin Irrit. 2 (H315)<br>Eye Irrit. 2 (H319)<br>STOT SE 3 (H335)<br>STOT RE 2 (H373)<br>Asp. Tox. 1 (H304)                                  | No data available         |
| Aluminium Hydroxide                              | 244-492-7                | 21645-51-2 | -            | <0.1      | Not classified  | No data available         |
| n-butyl acetate                                  | 204-658-1                | 123-86-4   | -            | <0.1      | Flam. Liq. 3 (H226)<br>STOT SE 3 (H336)<br>(EUH066)   | No data available         |
| 4-Methoxyphenol/ Mequinol                        | 205-769-8                | 150-76-5   | -            | <0.1      | Acute Tox. 4 (H302)<br>Eye Irrit. 2 (H319)<br>Skin Sens. 1 (H317)<br>Repr. 2 (H361d)<br>Aquatic Chronic 3 (H412)  | No data available         |
| ethylbenzene                                     | 202-849-4                | 100-41-4   | -            | <0.1      | Flam. Liq. 2 (H225)<br>Acute Tox. 4 (H332)<br>STOT RE 2 (H373)<br>Asp. Tox. 1 (H304)  | No data available         |
| Phosphoric acid                                  | 231-633-2                | 7664-38-2  | -            | <0.1      | Skin Corr. 1B (H314)<br>Eye Dam. 1 (H318)   | No data available         |
| Proprietary                                      | No information available | -          | -            | <0.1      | Aquatic Chronic 2 (H411)  | No data available         |
| 2,6-Bis(1,1-Dimethylethyl)-4-Methyl-Phenol       | 204-881-4                | 128-37-0   | -            | <0.1      | Aquatic Acute 1 (H400)  | No data available         |

|  |  |  |  |  |                          |  |
|--|--|--|--|--|--------------------------|--|
|  |  |  |  |  | Aquatic Chronic 1 (H410) |  |
|--|--|--|--|--|--------------------------|--|

Full text of H- and EUH-phrases: see section 16

## Section 4: FIRST AID MEASURES

### 4.1. Description of first aid measures

|   |  |
|---|--|
| <b>General advice</b>                     | Immediate medical attention is required. Show this safety data sheet to the doctor in attendance.  |
| <b>Inhalation</b>                         | Remove to fresh air. Get medical attention immediately if symptoms occur. IF exposed or concerned: Get medical advice/attention.   |
| <b>Eye contact</b>                        | Get immediate medical advice/attention. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. Do not rub affected area. |
| <b>Skin contact</b>                       | Wash off immediately with soap and plenty of water for at least 15 minutes. May cause an allergic skin reaction. In the case of skin irritation or allergic reactions see a doctor.  |
| <b>Ingestion</b>                          | Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Call a doctor.   |
| <b>Self-protection of the first aider</b> | Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section 8).  |

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

|                 |  |
|-----------------|--|
| <b>Symptoms</b> | Burning sensation. Itching. Rashes. Hives. |
|-----------------|--|

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

|                        |  |
|------------------------|--|
| <b>Note to doctors</b> | May cause sensitisation in susceptible persons. Treat symptomatically. |
|------------------------|--|

## Section 5: FIRE-FIGHTING MEASURES

### 5.1. Extinguishing media

|                                       |  |
|---------------------------------------|--|
| <b>Suitable Extinguishing Media</b>   | Use extinguishing agent suitable for type of surrounding fire<br>Class B fires: Use carbon dioxide (CO <sub>2</sub> ), regular dry chemical (sodium bicarbonate), regular foam (Aqueous Film Forming Foam-AFFF), or water spray to cool containers |
| <b>Unsuitable extinguishing media</b> | No information available.  |

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

|   |   |
|---|---|
| <b>Specific hazards arising from the chemical</b> | Product is or contains a sensitiser. May cause sensitisation by skin contact. |
|---|---|

### 5.3. Advice for firefighters

|   |   |
|---|---|
| <b>Special protective equipment for fire-fighters</b> | Move containers from fire area if you can do it without risk. Cool containers with flooding quantities of water until well after fire is out. Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Keep out of drains, sewers, ditches and waterways. Inhalation is a health risk. Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment. |
|---|---|

## Section 6: ACCIDENTAL RELEASE MEASURES

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

|                                   |   |
|-----------------------------------|---|
| <b>Personal precautions</b>       | Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. Ensure adequate ventilation. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.  |
| <b>Occupational Spill Release</b> | Intact cartridges do not pose a leak or spill hazard. Damaged cartridges may leak uncured ink. Stop leak if you can do it without risk Use water spray to reduce vapours or divert vapour cloud drift Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container Keep out of drains, sewers, ditches and waterways |
| <b>Other Information</b>          | Refer to protective measures listed in Sections 7 and 8.  |
| <b>For emergency responders</b>   | Use personal protection recommended in Section 8.   |

### 6.2. Environmental precautions

|                                  |   |
|----------------------------------|---|
| <b>Environmental precautions</b> | Prevent further leakage or spillage if safe to do so. |
|----------------------------------|---|

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

|  |   |
|--|---|
| <b>Methods for containment</b>         | Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water. |
| <b>Methods for cleaning up</b>         | Take up mechanically, placing in appropriate containers for disposal.   |
| <b>Prevention of secondary hazards</b> | Clean contaminated objects and areas thoroughly observing environmental regulations.  |

### 6.4. Reference to other sections

|                                    |  |
|------------------------------------|--|
| <b>Reference to other sections</b> | See section 8 for more information. See section 13 for more information. |
|------------------------------------|--|

## Section 7: HANDLING AND STORAGE

### 7.1. Precautions for safe handling

|                                       |   |
|---------------------------------------|---|
| <b>Advice on safe handling</b>        | Do not eat, drink or smoke when using this product. Avoid breathing vapours or mists. Wash thoroughly after handling. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Use only outdoors or in a well-ventilated area. Wear protective gloves and eye/face protection. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. |
| <b>General hygiene considerations</b> | Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product.  |

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

|                           |   |
|---------------------------|---|
| <b>Storage Conditions</b> | Store in a cool, dry area away from potential sources of heat, open flames, sunlight or other chemicals. Store in a cool, well ventilated area. Store in accordance with local regulations. Keep container tightly closed. Store between 15 °C and 27 °C. Shipment temperature (up to 5 weeks) is -20 °C to 50 °C. Store in a combustible storage area away from heat and open flame. |
|---------------------------|---|

#### Hints on joint storage

|                      |  |
|----------------------|--|
| <b>Storage class</b> | LGK10 - Combustible liquids unless storage class 3 |
|----------------------|--|

### 7.3. Specific end use(s)

**Risk Management Methods (RMM)** The information required is contained in this Material Safety Data Sheet.

## Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### Exposure disclaimer

Personal protection measures are only needed if cartridge is damaged punctured causing spillage of material.

### 8.1. Control parameters

#### Exposure Limits

| Chemical name   | European Union  | United Kingdom  | France   | Spain  | Germany  |
|---|---|---|--|--|--|
| Titanium dioxide<br>13463-67-7                                      | -   | TWA: 10 mg/m <sup>3</sup><br>TWA: 4 mg/m <sup>3</sup><br>STEL: 30 mg/m <sup>3</sup><br>STEL: 12 mg/m <sup>3</sup> | TWA: 10 mg/m <sup>3</sup>  | TWA: 10 mg/m <sup>3</sup>  | -  |
| camphene<br>79-92-5   | -   | -   | TWA: 1000 mg/m <sup>3</sup><br>STEL: 1500 mg/m <sup>3</sup>  | -  | -  |
| Acrylic acid<br>79-10-7   | -   | TWA: 10 ppm<br>TWA: 29 mg/m <sup>3</sup><br>STEL: 20 ppm<br>STEL: 59 mg/m <sup>3</sup>                            | TWA: 2 ppm<br>TWA: 6 mg/m <sup>3</sup><br>STEL: 10 ppm<br>STEL: 30 mg/m <sup>3</sup>   | TWA: 10 ppm<br>TWA: 29 mg/m <sup>3</sup><br>STEL: 20 ppm<br>STEL: 59 mg/m <sup>3</sup><br>via dérmica*     | TWA: 10 ppm<br>TWA: 30 mg/m <sup>3</sup>         |
| 1,7,7-Trimethyltricyclo[2.2.1.0 <sup>2,6</sup> ]heptane<br>508-32-7 | -   | -   | TWA: 1000 mg/m <sup>3</sup><br>STEL: 1500 mg/m <sup>3</sup>  | -  | -  |
| 2-methoxy-1-methylethyl acetate<br>108-65-6                         | TWA 50 ppm<br>TWA 275 mg/m <sup>3</sup><br>STEL 100 ppm<br>STEL 550 mg/m <sup>3</sup><br>*  | TWA: 50 ppm<br>TWA: 274 mg/m <sup>3</sup><br>STEL: 100 ppm<br>STEL: 548 mg/m <sup>3</sup><br>Sk*                  | TWA: 50 ppm<br>TWA: 275 mg/m <sup>3</sup><br>STEL: 100 ppm<br>STEL: 550 mg/m <sup>3</sup><br>*   | TWA: 50 ppm<br>TWA: 275 mg/m <sup>3</sup><br>STEL: 100 ppm<br>STEL: 550 mg/m <sup>3</sup><br>via dérmica*  | TWA: 50 ppm<br>TWA: 270 mg/m <sup>3</sup>        |
| Xylene, mixture of isomers<br>1330-20-7                             | TWA 50 ppm<br>TWA 221 mg/m <sup>3</sup><br>STEL 100 ppm<br>STEL 442 mg/m <sup>3</sup><br>*  | TWA: 50 ppm<br>TWA: 220 mg/m <sup>3</sup><br>STEL: 100 ppm<br>STEL: 441 mg/m <sup>3</sup><br>Sk*                  | TWA: 50 ppm<br>TWA: 221 mg/m <sup>3</sup><br>TWA: 1000 mg/m <sup>3</sup><br>STEL: 100 ppm<br>STEL: 442 mg/m <sup>3</sup><br>STEL: 1500 mg/m <sup>3</sup><br>*  | TWA: 50 ppm<br>TWA: 221 mg/m <sup>3</sup><br>STEL: 100 ppm<br>STEL: 442 mg/m <sup>3</sup><br>via dérmica*  | TWA: 100 ppm<br>TWA: 440 mg/m <sup>3</sup><br>H* |
| Aluminium Hydroxide<br>21645-51-2                                   | -   | TWA: 10 mg/m <sup>3</sup><br>TWA: 4 mg/m <sup>3</sup>   | -  | -  | -  |
| n-butyl acetate<br>123-86-4   | -   | TWA: 150 ppm<br>TWA: 724 mg/m <sup>3</sup><br>STEL: 200 ppm<br>STEL: 966 mg/m <sup>3</sup>                        | TWA: 150 ppm<br>TWA: 710 mg/m <sup>3</sup><br>STEL: 200 ppm<br>STEL: 940 mg/m <sup>3</sup>   | TWA: 150 ppm<br>TWA: 724 mg/m <sup>3</sup><br>STEL: 200 ppm<br>STEL: 965 mg/m <sup>3</sup>                 | TWA: 62 ppm<br>TWA: 300 mg/m <sup>3</sup>        |
| 4-Methoxyphenol/<br>Mequinol<br>150-76-5                            | -   | -   | TWA: 5 mg/m <sup>3</sup>   | TWA: 5 mg/m <sup>3</sup>   | -  |
| ethylbenzene<br>100-41-4  | TWA 100 ppm<br>TWA 442 mg/m <sup>3</sup><br>STEL 200 ppm<br>STEL 884 mg/m <sup>3</sup><br>* | TWA: 100 ppm<br>TWA: 441 mg/m <sup>3</sup><br>STEL: 125 ppm<br>STEL: 552 mg/m <sup>3</sup><br>Sk*                 | TWA: 20 ppm<br>TWA: 88.4 mg/m <sup>3</sup><br>TWA: 1000 mg/m <sup>3</sup><br>STEL: 100 ppm<br>STEL: 442 mg/m <sup>3</sup><br>STEL: 1500 mg/m <sup>3</sup><br>* | TWA: 100 ppm<br>TWA: 441 mg/m <sup>3</sup><br>STEL: 200 ppm<br>STEL: 884 mg/m <sup>3</sup><br>via dérmica* | TWA: 20 ppm<br>TWA: 88 mg/m <sup>3</sup><br>H*   |
| Phosphoric acid<br>7664-38-2  | TWA 1 mg/m <sup>3</sup><br>STEL 2 mg/m <sup>3</sup>   | TWA: 1 mg/m <sup>3</sup><br>STEL: 2 mg/m <sup>3</sup>   | TWA: 0.2 ppm<br>TWA: 1 mg/m <sup>3</sup><br>STEL: 0.5 ppm<br>STEL: 2 mg/m <sup>3</sup>   | TWA: 1 mg/m <sup>3</sup><br>STEL: 2 mg/m <sup>3</sup>  | TWA: 2 mg/m <sup>3</sup>                         |

|  |  |  |   |   |   |
|--|--|--|---|---|---|
| Proprietary  | -  | TWA: 0.5 mg/m <sup>3</sup>   | -   | -   | -   |
| 2,6-Bis(1,1-Dimethylethyl)-4-Methyl-Phenol<br>128-37-0 | -  | TWA: 10 mg/m <sup>3</sup><br>STEL: 30 mg/m <sup>3</sup>  | TWA: 10 mg/m <sup>3</sup>                                       | TWA: 10 mg/m <sup>3</sup>   | TWA: 10 mg/m <sup>3</sup>   |
| <b>Chemical name</b>                                   | <b>Italy</b>   | <b>Portugal</b>  | <b>Netherlands</b>  | <b>Finland</b>  | <b>Denmark</b>  |
| Titanium dioxide<br>13463-67-7                         | -  | TWA: 10 mg/m <sup>3</sup>  | -   | -   | TWA: 6 mg/m <sup>3</sup>  |
| Acrylic acid<br>79-10-7                                | -  | TWA: 2 ppm<br>P*   | TWA: 29 mg/m <sup>3</sup><br>STEL: 59 mg/m <sup>3</sup>         | TWA: 2 ppm<br>TWA: 6 mg/m <sup>3</sup><br>Ceiling: 15 ppm<br>Ceiling: 45 mg/m <sup>3</sup>        | TWA: 2 ppm<br>TWA: 5.9 mg/m <sup>3</sup><br>H*  |
| 2-methoxy-1-methylethyl acetate<br>108-65-6            | TWA: 50 ppm<br>TWA: 275 mg/m <sup>3</sup><br>STEL: 100 ppm<br>STEL: 550 mg/m <sup>3</sup><br>pelle*  | TWA: 50 ppm<br>TWA: 275 mg/m <sup>3</sup><br>STEL: 100 ppm<br>STEL: 550 mg/m <sup>3</sup><br>P*  | TWA: 550 mg/m <sup>3</sup>                                      | TWA: 50 ppm<br>TWA: 270 mg/m <sup>3</sup><br>STEL: 100 ppm<br>STEL: 550 mg/m <sup>3</sup><br>iho* | TWA: 50 ppm<br>TWA: 275 mg/m <sup>3</sup><br>H*   |
| Xylene, mixture of isomers<br>1330-20-7                | TWA: 50 ppm<br>TWA: 221 mg/m <sup>3</sup><br>STEL: 100 ppm<br>STEL: 442 mg/m <sup>3</sup><br>pelle*  | TWA: 50 ppm<br>TWA: 221 mg/m <sup>3</sup><br>STEL: 100 ppm<br>STEL: 442 mg/m <sup>3</sup><br>P*  | TWA: 210 mg/m <sup>3</sup><br>STEL: 442 mg/m <sup>3</sup><br>H* | TWA: 50 ppm<br>TWA: 220 mg/m <sup>3</sup><br>STEL: 100 ppm<br>STEL: 440 mg/m <sup>3</sup><br>iho* | TWA: 25 ppm<br>TWA: 109 mg/m <sup>3</sup><br>H*   |
| n-butyl acetate<br>123-86-4                            | -  | TWA: 150 ppm<br>STEL: 200 ppm  | -   | TWA: 150 ppm<br>TWA: 720 mg/m <sup>3</sup><br>STEL: 200 ppm<br>STEL: 960 mg/m <sup>3</sup>        | TWA: 150 ppm<br>TWA: 710 mg/m <sup>3</sup><br>TWA: 50 ppm<br>TWA: 150 mg/m <sup>3</sup>                           |
| 4-Methoxyphenol/<br>Mequinol<br>150-76-5               | -  | TWA: 5 mg/m <sup>3</sup>   | -   | -   | TWA: 5 mg/m <sup>3</sup>  |
| ethylbenzene<br>100-41-4                               | TWA: 100 ppm<br>TWA: 442 mg/m <sup>3</sup><br>STEL: 200 ppm<br>STEL: 884 mg/m <sup>3</sup><br>pelle* | TWA: 100 ppm<br>TWA: 442 mg/m <sup>3</sup><br>STEL: 200 ppm<br>STEL: 884 mg/m <sup>3</sup><br>P* | TWA: 215 mg/m <sup>3</sup><br>STEL: 430 mg/m <sup>3</sup><br>H* | TWA: 50 ppm<br>TWA: 220 mg/m <sup>3</sup><br>STEL: 200 ppm<br>STEL: 880 mg/m <sup>3</sup><br>iho* | TWA: 50 ppm<br>TWA: 217 mg/m <sup>3</sup><br>H*   |
| Phosphoric acid<br>7664-38-2                           | TWA: 1 mg/m <sup>3</sup><br>STEL: 2 mg/m <sup>3</sup>  | TWA: 1 mg/m <sup>3</sup><br>STEL: 3 mg/m <sup>3</sup>  | TWA: 1 mg/m <sup>3</sup><br>STEL: 2 mg/m <sup>3</sup>           | TWA: 1 mg/m <sup>3</sup><br>STEL: 2 mg/m <sup>3</sup>   | TWA: 1 mg/m <sup>3</sup>  |
| Proprietary  | -  | TWA: 0.5 mg/m <sup>3</sup>   | -   | TWA: 0.5 mg/m <sup>3</sup>  | -   |
| 2,6-Bis(1,1-Dimethylethyl)-4-Methyl-Phenol<br>128-37-0 | -  | TWA: 2 mg/m <sup>3</sup>   | -   | TWA: 10 mg/m <sup>3</sup><br>STEL: 20 mg/m <sup>3</sup>   | TWA: 10 mg/m <sup>3</sup>   |
| <b>Chemical name</b>                                   | <b>Austria</b>   | <b>Switzerland</b>   | <b>Poland</b>   | <b>Norway</b>   | <b>Ireland</b>  |
| Titanium dioxide<br>13463-67-7                         | TWA: 5 mg/m <sup>3</sup><br>STEL 10 mg/m <sup>3</sup>  | TWA: 3 mg/m <sup>3</sup>   | STEL: 30 mg/m <sup>3</sup><br>TWA: 10 mg/m <sup>3</sup>         | TWA: 5 mg/m <sup>3</sup><br>STEL: 10 mg/m <sup>3</sup>  | TWA: 10 mg/m <sup>3</sup><br>TWA: 4 mg/m <sup>3</sup><br>STEL: 30 mg/m <sup>3</sup><br>STEL: 12 mg/m <sup>3</sup> |
| camphene<br>79-92-5                                    | -  | STEL: 40 ppm<br>STEL: 224 mg/m <sup>3</sup><br>H*  | -   | -   | -   |
| Acrylic acid<br>79-10-7                                | TWA: 10 ppm<br>TWA: 29 mg/m <sup>3</sup><br>STEL 20 ppm<br>STEL 59 mg/m <sup>3</sup>                 | TWA: 10 ppm<br>TWA: 30 mg/m <sup>3</sup><br>STEL: 10 ppm<br>STEL: 30 mg/m <sup>3</sup>           | STEL: 29.5 mg/m <sup>3</sup><br>TWA: 10 mg/m <sup>3</sup>       | TWA: 10 ppm<br>TWA: 29 mg/m <sup>3</sup><br>STEL: 15 ppm<br>STEL: 43.5 mg/m <sup>3</sup>          | TWA: 10 ppm<br>TWA: 29 mg/m <sup>3</sup><br>STEL: 20 ppm<br>STEL: 59 mg/m <sup>3</sup>                            |
| 2-methoxy-1-methylethyl acetate<br>108-65-6            | TWA: 50 ppm<br>TWA: 275 mg/m <sup>3</sup><br>STEL 100 ppm<br>STEL 550 mg/m <sup>3</sup><br>H*        | TWA: 50 ppm<br>TWA: 275 mg/m <sup>3</sup><br>STEL: 50 ppm<br>STEL: 275 mg/m <sup>3</sup>         | STEL: 520 mg/m <sup>3</sup><br>TWA: 260 mg/m <sup>3</sup>       | TWA: 50 ppm<br>TWA: 270 mg/m <sup>3</sup><br>STEL: 75 ppm<br>STEL: 337.5 mg/m <sup>3</sup><br>H*  | TWA: 50 ppm<br>TWA: 275 mg/m <sup>3</sup><br>STEL: 100 ppm<br>STEL: 550 mg/m <sup>3</sup><br>Sk*                  |
| Xylene, mixture of isomers<br>1330-20-7                | TWA: 50 ppm<br>TWA: 221 mg/m <sup>3</sup><br>STEL 100 ppm  | TWA: 100 ppm<br>TWA: 435 mg/m <sup>3</sup><br>STEL: 200 ppm                                      | STEL: 200 mg/m <sup>3</sup><br>TWA: 100 mg/m <sup>3</sup>       | TWA: 25 ppm<br>TWA: 108 mg/m <sup>3</sup><br>STEL: 37.5 ppm                                       | TWA: 50 ppm<br>TWA: 221 mg/m <sup>3</sup><br>STEL: 100 ppm  |

|   |  |  |   |   |   |
|---|--|--|---|---|---|
|   | STEL 442 mg/m <sup>3</sup>   | STEL: 870 mg/m <sup>3</sup><br>H*  |   | STEL: 135 mg/m <sup>3</sup><br>H*   | STEL: 442 mg/m <sup>3</sup><br>Sk*  |
| Aluminium Hydroxide<br>21645-51-2                           | TWA: 5 mg/m <sup>3</sup><br>STEL 10 mg/m <sup>3</sup>  | TWA: 3 mg/m <sup>3</sup>   | TWA: 2.5 mg/m <sup>3</sup><br>TWA: 1.2 mg/m <sup>3</sup>  | -   | TWA: 10 mg/m <sup>3</sup><br>TWA: 4 mg/m <sup>3</sup><br>STEL: 30 mg/m <sup>3</sup><br>STEL: 12 mg/m <sup>3</sup> |
| n-butyl acetate<br>123-86-4                                 | TWA: 100 ppm<br>TWA: 480 mg/m <sup>3</sup><br>STEL 100 ppm<br>STEL 480 mg/m <sup>3</sup><br>Ceiling 100 ppm<br>Ceiling 480 mg/m <sup>3</sup> | TWA: 100 ppm<br>TWA: 480 mg/m <sup>3</sup><br>STEL: 200 ppm<br>STEL: 960 mg/m <sup>3</sup>     | STEL: 720 mg/m <sup>3</sup><br>TWA: 240 mg/m <sup>3</sup> | TWA: 75 ppm<br>TWA: 355 mg/m <sup>3</sup><br>STEL: 112.5 ppm<br>STEL: 443.75<br>mg/m <sup>3</sup> | TWA: 150 ppm<br>TWA: 710 mg/m <sup>3</sup><br>STEL: 200 ppm<br>STEL: 950 mg/m <sup>3</sup>                        |
| 4-Methoxyphenol/<br>Mequinol<br>150-76-5                    | TWA: 5 mg/m <sup>3</sup><br>STEL 10 mg/m <sup>3</sup>  | -  | TWA: 5 mg/m <sup>3</sup>                                  | TWA: 5 mg/m <sup>3</sup><br>STEL: 10 mg/m <sup>3</sup>  | TWA: 5 mg/m <sup>3</sup><br>STEL: 15 mg/m <sup>3</sup>  |
| ethylbenzene<br>100-41-4                                    | TWA: 100 ppm<br>TWA: 440 mg/m <sup>3</sup><br>STEL 200 ppm<br>STEL 880 mg/m <sup>3</sup><br>H*   | TWA: 50 ppm<br>TWA: 220 mg/m <sup>3</sup><br>STEL: 50 ppm<br>STEL: 220 mg/m <sup>3</sup><br>H* | STEL: 400 mg/m <sup>3</sup><br>TWA: 200 mg/m <sup>3</sup> | TWA: 5 ppm<br>TWA: 20 mg/m <sup>3</sup><br>STEL: 10 ppm<br>STEL: 30 mg/m <sup>3</sup><br>H*       | TWA: 100 ppm<br>TWA: 442 mg/m <sup>3</sup><br>STEL: 200 ppm<br>STEL: 884 mg/m <sup>3</sup><br>Sk*                 |
| Phosphoric acid<br>7664-38-2                                | TWA: 1 mg/m <sup>3</sup><br>STEL 2 mg/m <sup>3</sup>   | TWA: 2 mg/m <sup>3</sup><br>STEL: 4 mg/m <sup>3</sup>  | STEL: 2 mg/m <sup>3</sup><br>TWA: 1 mg/m <sup>3</sup>     | TWA: 1 mg/m <sup>3</sup><br>STEL: 2 mg/m <sup>3</sup>   | TWA: 1 mg/m <sup>3</sup><br>STEL: 2 mg/m <sup>3</sup>   |
| Proprietary   | -  | TWA: 0.5 mg/m <sup>3</sup>   | TWA: 0.5 mg/m <sup>3</sup>                                | TWA: 0.5 mg/m <sup>3</sup><br>STEL: 1.5 mg/m <sup>3</sup>   | TWA: 2 mg/m <sup>3</sup><br>STEL: 6 mg/m <sup>3</sup>   |
| 2,6-Bis(1,1-Dimethylethyl)<br>)-4-Methyl-Phenol<br>128-37-0 | TWA: 10 mg/m <sup>3</sup>  | TWA: 10 mg/m <sup>3</sup><br>STEL: 40 mg/m <sup>3</sup>  | -   | -   | TWA: 2 mg/m <sup>3</sup><br>STEL: 6 mg/m <sup>3</sup>   |

**Biological occupational exposure limits**

| Chemical name                           | European Union | United Kingdom | France      | Spain   | Germany             |
|---|----------------|----------------|-------------|---------|---------------------|
| Xylene, mixture of isomers<br>1330-20-7 | -              | 650            | -           | 1       | 2000 mg/L           |
| ethylbenzene<br>100-41-4                | -              | -              | -           | 700     | 250 mg/g Creatinine |
| Chemical name                           | Italy          | Portugal       | Netherlands | Finland | Denmark             |
| Xylene, mixture of isomers<br>1330-20-7 | -              | -              | -           | 5.0     |                     |
| ethylbenzene<br>100-41-4                | -              | -              | -           | 5.2     |                     |
| Chemical name                           | Austria        | Switzerland    | Poland      | Norway  | Ireland             |
| Xylene, mixture of isomers<br>1330-20-7 | -              | 2              | -           | -       | -                   |
| Aluminium Hydroxide<br>21645-51-2       | -              | 60             | -           | -       | -                   |
| ethylbenzene<br>100-41-4                | -              | 600            | -           | -       | -                   |

**Derived No Effect Level (DNEL)** No information available.

**Predicted No Effect Concentration (PNEC)** No information available.

**8.2. Exposure controls****Personal protective equipment**

**Eye/face protection** Tight sealing safety goggles.



|  |  |
|--|--|
| <b>Hand Protection</b>                 | Wear suitable gloves. Impervious gloves.   |
| <b>Skin and body protection</b>        | Wear suitable protective clothing. Long sleeved clothing.  |
| <b>Respiratory protection</b>          | No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required. |
| <b>General hygiene considerations</b>  | Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product.                             |
| <b>Environmental exposure controls</b> | No information available.  |

## Section 9: PHYSICAL AND CHEMICAL PROPERTIES

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

|                        |                          |
|------------------------|--------------------------|
| <b>Physical state</b>  | liquid                   |
| <b>Appearance</b>      | Ink cartridge            |
| <b>Odour</b>           | Characteristic           |
| <b>Colour</b>          | beige                    |
| <b>Odour threshold</b> | No information available |

| <u>Property</u>                       | <u>Values</u>            | <u>Remarks • Method</u> |
|---------------------------------------|--------------------------|-------------------------|
| <b>pH</b>                             | N/A                      |                         |
| <b>Melting point / freezing point</b> | No data available        | None known              |
| <b>Boiling point / boiling range</b>  | No data available        | None known              |
| <b>Flash point</b>                    | >= 100 - < 250 °C        |                         |
| <b>Evaporation rate</b>               | No data available        | None known              |
| <b>Flammability (solid, gas)</b>      | No data available        | None known              |
| <b>Flammability Limit in Air</b>      |                          | None known              |
| <b>Upper flammability limit:</b>      | No data available        |                         |
| <b>Lower flammability limit</b>       | No data available        |                         |
| <b>Vapour pressure</b>                | No data available        | None known              |
| <b>Vapour density</b>                 | No data available        | None known              |
| <b>Relative density</b>               | 1.09                     | g/cm3                   |
| <b>Water solubility</b>               | Insoluble in water       |                         |
| <b>Solubility(ies)</b>                | No data available        | None known              |
| <b>Partition coefficient</b>          | No data available        | None known              |
| <b>Autoignition temperature</b>       | No data available        | None known              |
| <b>Decomposition temperature</b>      | No data available        | None known              |
| <b>Kinematic viscosity</b>            | No data available        | None known              |
| <b>Dynamic viscosity</b>              | No data available        | None known              |
| <b>Explosive properties</b>           | No information available |                         |
| <b>Oxidising properties</b>           | No information available |                         |

### 9.2. Other information

|                                   |                          |
|-----------------------------------|--------------------------|
| <b>Softening point</b>            | No information available |
| <b>Molecular weight</b>           | No information available |
| <b>VOC Content (%)</b>            | No information available |
| <b>Liquid Density</b>             | No information available |
| <b>Bulk density</b>               | No information available |
| <b>Particle Size</b>              | No information available |
| <b>Particle Size Distribution</b> | No information available |

## Section 10: STABILITY AND REACTIVITY

### 10.1. Reactivity

**Reactivity** Heating may cause a fire.

### 10.2. Chemical stability

**Stability** Decomposes on exposure to light. Unstable if heated.

#### **Explosion data**

**Sensitivity to Mechanical Impact** None.

**Sensitivity to Static Discharge** None.

### 10.3. Possibility of hazardous reactions

**Possibility of hazardous reactions** Uncured ink will polymerize on exposure to light.

### 10.4. Conditions to avoid

**Conditions to avoid** Avoid exposure to heat and light.

### 10.5. Incompatible materials

**Incompatible materials** Not applicable under normal conditions of use and storage.

### 10.6. Hazardous decomposition products

**Hazardous decomposition products** Thermal Decomposition Products. Combustion: oxides of carbon.

## Section 11: TOXICOLOGICAL INFORMATION

### 11.1. Information on toxicological effects

#### Information on likely routes of exposure

#### **Product Information**

|                     |   |
|---------------------|---|
| <b>Inhalation</b>   | May cause irritation of respiratory tract. (based on components).   |
| <b>Eye contact</b>  | Severely irritating to eyes. Causes serious eye damage. May cause burns. May cause irreversible damage to eyes. (based on components).  |
| <b>Skin contact</b> | May cause sensitisation by skin contact. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. (based on components). Causes skin irritation. |
| <b>Ingestion</b>    | Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. (based on components).  |

#### Information on toxicological effects

**Symptoms** Redness. Burning. May cause blindness. Itching. Rashes. Hives. May cause redness and tearing of the eyes.

#### Numerical measures of toxicity

#### **Acute toxicity**

The following values are calculated based on chapter 3.1 of the GHS document

**ATEmix (oral)** 2,404.88 mg/kg mg/l

#### **Component Information**

| Chemical name | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|---------------|-----------|-------------|-----------------|
|---------------|-----------|-------------|-----------------|

|  |  |  |   |
|--|--|--|---|
| Proprietary                                | = 4890 mg/kg<br>= 4890 mg/kg ( Rat )                                   | > 3000 mg/kg ( Rabbit )                              | -   |
| Proprietary                                | = 588 mg/kg (rat)  | > 2000 mg/kg (rat)                                   | = 5.28 mg/l (rat)                               |
| Proprietary                                | (Rat) LD50 = 1,590 - 3,910 mg/kg                                       | (Rabbit) LD50 = > 2,000 mg/kg                        | (Rat) 1 h LC0 = 6.7 mg/l                        |
| Proprietary                                | = 2.000 mg/kg (Rat) (Method: OECD Test Guideline 423)                  | = 2.000 mg/kg (Rat)(Method: OECD Test Guideline 402) | -   |
| Proprietary                                | >2000 mg/kg (Rat)  | >2000 mg/kg  | -   |
| Proprietary                                | > 5,000 mg/kg (Rat) (OECD Guideline 401)                               | > 2,000 mg/kg (Rat) (OECD Guideline 402)             | -   |
| Titanium dioxide                           | > 10000 mg/kg<br>> 10000 mg/kg ( Rat )                                 | -  | -   |
| camphene                                   | > 5 g/kg<br>> 5 g/kg ( Rat )   | > 2500 mg/kg ( Rabbit )                              | = 17100 mg/m <sup>3</sup> ( Rat ) 1 h           |
| Ethoxylated Trimethylolpropane Triacrylate | -  | > 13 g/kg ( Rabbit )                                 | -   |
| Acrylic acid                               | = 33500 µg/kg = 193 mg/kg<br>= 193 mg/kg ( Rat ) = 33500 µg/kg ( Rat ) | = 295 mg/kg ( Rabbit ) = 280 µL/kg ( Rabbit )        | = 3.6 mg/L ( Rat ) 4 h = 11.1 mg/L ( Rat ) 1 h  |
| 2-methoxy-1-methylethyl acetate            | = 8532 mg/kg<br>= 8532 mg/kg ( Rat )                                   | > 5 g/kg ( Rabbit )                                  | -   |
| Xylene, mixture of isomers                 | = 3500 mg/kg<br>= 3500 mg/kg ( Rat )                                   | > 4350 mg/kg ( Rabbit ) > 1700 mg/kg ( Rabbit )      | = 5000 ppm ( Rat ) 4 h = 29.08 mg/L ( Rat ) 4 h |
| Aluminium Hydroxide                        | > 5000 mg/kg<br>> 5000 mg/kg ( Rat )                                   | -  | -   |
| n-butyl acetate                            | = 10768 mg/kg<br>= 10768 mg/kg ( Rat )                                 | > 17600 mg/kg ( Rabbit )                             | = 390 ppm ( Rat ) 4 h                           |
| 4-Methoxyphenol/ Mequinol                  | = 1600 mg/kg<br>= 1600 mg/kg ( Rat )                                   | > 2000 mg/kg ( Rabbit )                              | -   |
| ethylbenzene                               | = 3500 mg/kg<br>= 3500 mg/kg ( Rat )                                   | = 15400 mg/kg ( Rabbit )                             | = 17.4 mg/L ( Rat ) 4 h                         |
| Phosphoric acid                            | = 1530 mg/kg<br>= 1530 mg/kg ( Rat )                                   | = 2740 mg/kg ( Rabbit )                              | > 850 mg/m <sup>3</sup> ( Rat ) 1 h             |
| 2,6-Bis(1,1-Dimethylethyl)-4-Methyl-Phenol | > 2930 mg/kg<br>> 2930 mg/kg ( Rat )                                   | > 2000 mg/kg ( Rat )                                 | -   |

#### **Delayed and immediate effects as well as chronic effects from short and long-term exposure**

|  |   |
|--|---|
| <b>Skin corrosion/irritation</b>         | Classification based on data available for ingredients. Irritating to skin.                           |
| <b>Serious eye damage/eye irritation</b> | Classification based on data available for ingredients. Causes burns. Risk of serious damage to eyes. |
| <b>Respiratory or skin sensitisation</b> | May cause sensitisation by skin contact. Classification based on data available for ingredients.      |
| <b>Germ cell mutagenicity</b>            | No information available.   |
| <b>Carcinogenicity</b>                   | No information available.   |
| <b>Reproductive toxicity</b>             | .   |

The table below indicates ingredients above the cut-off threshold considered as relevant which are listed as reproductive toxins.

| Chemical name | European Union |
|---------------|----------------|
| Proprietary   | Repr. 2        |

**STOT - single exposure** Classification based on data available for ingredients.

**STOT - repeated exposure** Classification based on data available for ingredients.

**Aspiration hazard** No information available.

## Section 12: ECOLOGICAL INFORMATION

### 12.1. Toxicity

#### Ecotoxicity

Very toxic to aquatic life with long lasting effects

#### Unknown aquatic toxicity

Contains 0 % of components with unknown hazards to the aquatic environment.

| Chemical name                                    | Algae/aquatic plants   | Fish   | Toxicity to microorganisms | Crustacea  |
|--|--|--|----------------------------|--|
| Proprietary                                      | 1.98 mg/l Fresh water  | 0.704 mg/l Fresh water   | -                          | 0.524 mg/l Fresh water   |
| Proprietary                                      | 120 mg/l (algae)   | -  | -                          | 120 mg/kg (daphnia)  |
| Proprietary                                      | Pseudokirchneriella subcapitata (green algae) 96 h EC50 = 0.17 mg/l                                  | Oncorhynchus mykiss (rainbow trout) 96 h LC50 = 27 mg/l  | -                          | Daphnia magna (Water flea) 48 h EC50 = 95 mg/l                               |
| Proprietary                                      | (Pseudokirchneriella subcapitata) : 1,6 mg/l (Method: OECD Test Guideline 201)                       | (Fish) : 4,95 mg/l   | -                          | (Daphnia magna Straus) : 2,36 mg/l (Method: OECD Test Guideline 202)         |
| Proprietary                                      | > 2.01 mg/l (growth rate), Pseudokirchneriella subcapitata (OECD Guideline 201, static)              | 6.53 mg/l, Oryzias latipes (JIS K 0102-71, semistatic)   | -                          | 3.53 mg/l, Daphnia magna (OECD Guideline 202, part 1, static)                |
| camphene   | 1000: 72 h Desmodesmus subspicatus mg/L EC50   | 0.72: 96 h Brachydanio rerio mg/L LC50 flow-through 150: 96 h Brachydanio rerio mg/L LC50 static   | -                          | 22: 48 h Daphnia magna mg/L EC50   |
| Ethoxylated Trimethylolpropane Triacrylate       | -  | 1.95: 96 h Danio rerio mg/L LC50 static  | -                          | -  |
| Acrylic acid                                     | 0.17: 96 h Pseudokirchneriella subcapitata mg/L EC50<br>0.04: 72 h Desmodesmus subspicatus mg/L EC50 | 222: 96 h Brachydanio rerio mg/L LC50 semi-static  | -                          | 270: 24 h Daphnia magna mg/L LC50 Static<br>95: 48 h Daphnia magna mg/L EC50 |
| Glycerol, propoxylated, esters with acrylic acid | -  | 5.74: 96 h Danio rerio mg/L LC50 static  | -                          | -  |
| 2-methoxy-1-methylethyl acetate                  | -  | 161: 96 h Pimephales promelas mg/L LC50 static   | -                          | 500: 48 h Daphnia magna mg/L EC50  |
| Xylene, mixture of isomers                       | -  | 780: 96 h Cyprinus carpio mg/L LC50 semi-static<br>13.4: 96 h Pimephales promelas mg/L LC50 flow-through<br>780: 96 h Cyprinus carpio mg/L LC50<br>19: 96 h Lepomis macrochirus mg/L LC50<br>7.711 - 9.591: 96 h Lepomis macrochirus mg/L LC50 static<br>13.1 - 16.5: 96 h Lepomis macrochirus mg/L LC50 flow-through<br>23.53 - 29.97: 96 h Pimephales promelas mg/L LC50 static<br>2.661 - 4.093: 96 h Oncorhynchus mykiss mg/L LC50 static<br>30.26 - | -                          | 3.82: 48 h water flea mg/L EC50<br>0.6: 48 h Gammarus lacustris mg/L LC50    |

|  |  |  |   |   |
|--|--|--|---|---|
|  |  | 40.75: 96 h Poecilia reticulata mg/L LC50 static 13.5 - 17.3: 96 h Oncorhynchus mykiss mg/L LC50   |   |   |
| n-butyl acetate                            | 674.7: 72 h Desmodemus subspicatus mg/L EC50   | 62: 96 h Leuciscus idus mg/L LC50 static 100: 96 h Lepomis macrochirus mg/L LC50 static 17 - 19: 96 h Pimephales promelas mg/L LC50 flow-through   | - | 72.8: 24 h Daphnia magna mg/L EC50      |
| 4-Methoxyphenol/ Mequinol                  | -  | 28.5: 96 h Oncorhynchus mykiss mg/L LC50 flow-through 84.3: 96 h Pimephales promelas mg/L LC50 flow-through  | - | -                                       |
| ethylbenzene                               | 4.6: 72 h Pseudokirchneriella subcapitata mg/L EC50 438: 96 h Pseudokirchneriella subcapitata mg/L EC50 1.7 - 7.6: 96 h Pseudokirchneriella subcapitata mg/L EC50 static 2.6 - 11.3: 72 h Pseudokirchneriella subcapitata mg/L EC50 static | 4.2: 96 h Oncorhynchus mykiss mg/L LC50 semi-static 7.55 - 11: 96 h Pimephales promelas mg/L LC50 flow-through 9.6: 96 h Poecilia reticulata mg/L LC50 static 32: 96 h Lepomis macrochirus mg/L LC50 static 9.1 - 15.6: 96 h Pimephales promelas mg/L LC50 static 11.0 - 18.0: 96 h Oncorhynchus mykiss mg/L LC50 static | - | 1.8 - 2.4: 48 h Daphnia magna mg/L EC50 |
| Phosphoric acid                            | -  | 3 - 3.5: 96 h Gambusia affinis mg/L LC50   | - | 4.6: 12 h Daphnia magna mg/L EC50       |
| 2,6-Bis(1,1-Dimethylethyl)-4-Methyl-Phenol | 6: 72 h Pseudokirchneriella subcapitata mg/L EC50 0.42: 72 h Desmodemus subspicatus mg/L EC50  | 5: 48 h Oryzias latipes mg/L LC50  | - | -                                       |

**12.2. Persistence and degradability**

**Persistence and degradability** No information available.

**12.3. Bioaccumulative potential**

**Bioaccumulation** There is no data for this product.

**Component Information**

| Chemical name                              | Partition coefficient |
|--|-----------------------|
| Acrylic acid                               | 0.46                  |
| 2-methoxy-1-methylethyl acetate            | 0.43                  |
| Xylene, mixture of isomers                 | 3.15                  |
| n-butyl acetate                            | 1.81                  |
| 4-Methoxyphenol/ Mequinol                  | 1.3                   |
| ethylbenzene                               | 3.2                   |
| 2,6-Bis(1,1-Dimethylethyl)-4-Methyl-Phenol | 4.17                  |

**12.4. Mobility in soil**

**Mobility in soil** No information available.

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

PBT and vPvB assessment No information available.

**12.6. Other adverse effects**

Other adverse effects No information available.

**Section 13: DISPOSAL CONSIDERATIONS****13.1. Waste treatment methods**

**Waste from residues/unused products** Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

**Contaminated packaging** Do not reuse empty containers.

**Waste codes / waste designations according to EWC / AVV** 08 03 12\* Waste ink containing dangerous substances.

**Section 14: TRANSPORT INFORMATION**

**Additional information** The environmentally hazardous substance mark is not required when transported in sizes of ≤5L or ≤5kg  
The marine pollutant mark is not required when transported in sizes of ≤5L or ≤5kg

**IMDG**

**14.1 UN number** UN3082  
**14.2 UN proper shipping name** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
**14.3 Transport hazard class(es)** 9  
**14.4 Packing group** III  
**Description** UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate, camphene), 9, III, Marine pollutant  
**14.5 Marine pollutant** This product contains a chemical which is listed as a severe marine pollutant according to IMDG/IMO  
**Environmental Hazard** Yes  
**14.6 Special Provisions** 274, 335, 969  
**EmS-No** F-A, S-F  
**14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** No information available

**RID**

**14.1 UN Number** UN3082  
**14.2 UN proper shipping name** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
**14.3 Transport hazard class(es)** 9  
**Labels** 9  
**14.4 Packing group** III  
**Description** UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate, camphene), 9, III  
**14.5 Environmental Hazard** Yes  
**14.6 Special Provisions** 274, 335, 375, 601  
**Classification code** M6

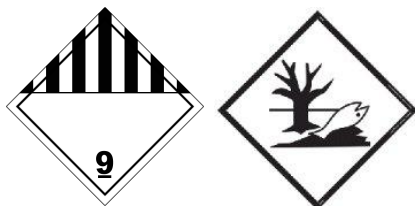
**ADR**

**14.1 UN number** 3082  
**14.2 UN proper shipping name** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

|  |   |
|--|---|
| <b>14.3 Transport hazard class(es)</b> | 9   |
| <b>Labels</b>                          | 9   |
| <b>14.4 Packing group</b>              | III   |
| <b>Description</b>                     | 3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate, camphene), 9, III |
| <b>14.5 Environmental Hazard</b>       | Yes   |
| <b>14.6 Special Provisions</b>         | 274, 335, 601, 375  |
| <b>Classification code</b>             | M6  |

**IATA**

|  |   |
|--|---|
| <b>14.1 UN Number</b>                  | UN3082  |
| <b>14.2 UN proper shipping name</b>    | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.   |
| <b>14.3 Transport hazard class(es)</b> | 9   |
| <b>14.4 Packing group</b>              | III   |
| <b>Description</b>                     | UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate, camphene), 9, III |
| <b>14.5 Environmental Hazard</b>       | Yes   |
| <b>14.6 Special Provisions</b>         | A97, A158, A197   |
| <b>ERG Code</b>                        | 9L  |



## Section 15: REGULATORY INFORMATION

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

#### National regulations

##### France

##### Occupational Illnesses (R-463-3, France)

| Chemical name                               | French RG number | Title |
|---|------------------|-------|
| 2-methoxy-1-methylethyl acetate<br>108-65-6 | RG 84            | -     |
| Xylene, mixture of isomers<br>1330-20-7     | RG 4bis, RG 84   | -     |
| n-butyl acetate<br>123-86-4                 | RG 84            | -     |
| 4-Methoxyphenol/ Mequinol<br>150-76-5       | RG 65            | -     |
| ethylbenzene<br>100-41-4                    | RG 84            | -     |

##### Germany

**Water hazard class (WGK)**      hazardous to water (WGK 2)

##### European Union

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

#### Authorisations and/or restrictions on use:

This product does not contain substances subject to authorisation (Regulation (EC) No. 1907/2006 (REACH), Annex XIV) This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

**Persistent Organic Pollutants**

Not applicable

**Dangerous substance category per Seveso Directive (2012/18/EU)**

E1 - Hazardous to the Aquatic Environment in Category Acute 1 or Chronic 1

**Ozone-depleting substances (ODS) regulation (EC) 1005/2009** Not applicable**15.2. Chemical safety assessment****Chemical Safety Report**

No information available

**Section 16: OTHER INFORMATION****Key or legend to abbreviations and acronyms used in the safety data sheet****Full text of H-Statements referred to under section 3**

EUH066 - Repeated exposure may cause skin dryness or cracking

H225 - Highly flammable liquid and vapour

H226 - Flammable liquid and vapour

H228 - Flammable solid

H302 - Harmful if swallowed

H304 - May be fatal if swallowed and enters airways

H312 - Harmful in contact with skin

H314 - Causes severe skin burns and eye damage

H315 - Causes skin irritation

H317 - May cause an allergic skin reaction

H318 - Causes serious eye damage

H319 - Causes serious eye irritation

H332 - Harmful if inhaled

H335 - May cause respiratory irritation

H336 - May cause drowsiness or dizziness

H361d - Suspected of damaging the unborn child

H361f - Suspected of damaging fertility

H373 - May cause damage to organs through prolonged or repeated exposure

H400 - Very toxic to aquatic life

H410 - Very toxic to aquatic life with long lasting effects

H411 - Toxic to aquatic life with long lasting effects

H412 - Harmful to aquatic life with long lasting effects

**Legend**

SVHC: Substances of Very High Concern for Authorisation:

**Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

|         |                             |      |                                  |
|---------|-----------------------------|------|----------------------------------|
| TWA     | TWA (time-weighted average) | STEL | STEL (Short Term Exposure Limit) |
| Ceiling | Maximum limit value         | *    | Skin designation                 |

| Classification procedure  |                    |
|---|--------------------|
| Classification according to Regulation (EC) No. 1272/2008 [CLP] | Method Used        |
| Acute oral toxicity   | Calculation method |
| Acute dermal toxicity   | Calculation method |
| Acute inhalation toxicity - gas                                 | Calculation method |
| Acute inhalation toxicity - Vapor                               | Calculation method |
| Acute inhalation toxicity - dust/mist                           | Calculation method |
| Skin corrosion/irritation                                       | Calculation method |
| Serious eye damage/eye irritation                               | Calculation method |
| Respiratory sensitisation                                       | Calculation method |



|                          |                    |
|--------------------------|--------------------|
| Mutagenicity             | Calculation method |
| Carcinogenicity          | Calculation method |
| Reproductive toxicity    | Calculation method |
| Acute aquatic toxicity   | Calculation method |
| Chronic aquatic toxicity | Calculation method |
| Aspiration toxicity      | Calculation method |
| Ozone                    | Calculation method |

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This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

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End of Safety Data Sheet