

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

#### 1.1. Product identifier

Product form : Mixture  
Product name : eCEMENT DC Base

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

##### 1.2.1. Relevant identified uses

Use of the substance/mixture : For Rx Only

##### 1.2.2. Uses advised against

No additional information available

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

##### Manufacturer

BISCO, Inc.  
1100 W. Irving Park Rd.  
60193 Schaumburg, IL  
U.S.A.  
T 1-800-247-3368 or 1-847-534-6000  
[www.bisco.com](http://www.bisco.com)

##### EC REP

BISCO France  
208, allée de la Coudoulette  
13680 Lançon de Provence  
France  
T 33-4-90-42-92-92

#### 1.4. Emergency telephone number

Emergency number : CHEMTREC - 24-Hour Hazmat Emergency Communications Center  
Domestic: 1-800-424-9300 Outside the U.S.: 1-703-527-3887, collect calls accepted

### SECTION 2: Hazards identification

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

##### Classification according to Regulation (EC) No. 1272/2008 [CLP]

|  |      |
|--|------|
| Skin corrosion/irritation, Category 2  | H315 |
| Serious eye damage/eye irritation, Category 2  | H319 |
| Skin sensitisation, Category 1   | H317 |
| Specific target organ toxicity - Single exposure, Category 3, Respiratory tract irritation | H335 |

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

##### Adverse physicochemical, human health and environmental effects

Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation.

#### 2.2. Label elements

##### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



GHS07

Signal word (CLP) :

Warning

Contains :

Triethylene Glycol Dimethacrylate, Ytterbium Oxide-Silica, Tetrahydrofurfuryl Methacrylate, BisGMA

Hazard statements (CLP) :

H315 - Causes skin irritation.  
H317 - May cause an allergic skin reaction.  
H319 - Causes serious eye irritation.  
H335 - May cause respiratory irritation.

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|                                |   |
|--------------------------------|---|
| Precautionary statements (CLP) | : P261 - Avoid breathing dust, fume, vapours.<br>P264 - Wash hands thoroughly after handling.<br>P272 - Contaminated work clothing should not be allowed out of the workplace.<br>P280 - Wear protective gloves, protective clothing, eye protection.<br>P302+P352 - IF ON SKIN: Wash with plenty of soap and water.<br>P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.<br>P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.<br>P312 - Call a POISON CENTER, doctor if you feel unwell.<br>P321 - Specific treatment (see supplemental first aid instruction on this label).<br>P332+P313 - If skin irritation occurs: Get medical advice/attention.<br>P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.<br>P337+P313 - If eye irritation persists: Get medical advice/attention.<br>P362+P364 - Take off contaminated clothing and wash it before reuse.<br>P403+P233 - Store in a well-ventilated place. Keep container tightly closed.<br>P501 - Dispose of contents and container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation, a licensed hazardous-waste disposal contractor or collection site except for empty clean containers which can be disposed of as non-hazardous waste. |
|--------------------------------|---|

### 2.3. Other hazards

Contains no PBT/vPvB substances  $\geq 0.1\%$  assessed in accordance with REACH Annex XIII

| Component                                      |   |
|--|---|
| Triethylene Glycol Dimethacrylate (109-16-0)   | This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII<br>This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII |
| Tetrahydrofurfuryl Methacrylate (2455-24-5)    | This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII<br>This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII |
| Trimethylolpropane Trimethacrylate (3290-92-4) | This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII<br>This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII |

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

| Component                  |  |
|----------------------------|--|
| Ytterbium Oxide-Silica(NA) | The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 % |

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

| Name                    | Product identifier                       | %       | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|-------------------------|--|---------|---|
| Ytterbium Fluoride      | CAS-No.: 13760-80-0<br>EC-No.: 237-354-2 | 10 - 30 | Skin Irrit. 2, H315<br>Eye Irrit. 2, H319                       |
| Urethane Dimethacrylate | CAS-No.: Proprietary                     | 10 - 30 | Eye Irrit. 2, H319<br>STOT SE 3, H336                           |

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| Name                               | Product identifier                      | %       | Classification according to Regulation (EC) No. 1272/2008 [CLP]                    |
|------------------------------------|---|---------|--|
| BisGMA                             | CAS-No.: 1565-94-2<br>EC-No.: 216-367-7 | 10 - 30 | Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>Skin Sens. 1, H317<br>STOT SE 3, H335 |
| Triethylene Glycol Dimethacrylate  | CAS-No.: 109-16-0<br>EC-No.: 203-652-6  | 5 - 10  | Skin Sens. 1B, H317  |
| Ytterbium Oxide-Silica             | CAS-No.: NA                             | 5 - 10  | Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>STOT SE 3, H335                       |
| Tetrahydrofurfuryl Methacrylate    | CAS-No.: 2455-24-5<br>EC-No.: 219-529-5 | 1 - 5   | Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>STOT SE 3, H335                       |
| Trimethylolpropane Trimethacrylate | CAS-No.: 3290-92-4<br>EC-No.: 221-950-4 | 1 - 5   | Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>Aquatic Acute 1, H400                 |

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

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

|                                       |  |
|---------------------------------------|--|
| First-aid measures after inhalation   | : Remove person to fresh air and keep comfortable for breathing.   |
| First-aid measures after skin contact | : Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.   |
| First-aid measures after eye contact  | : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. |
| First-aid measures after ingestion    | : Call a poison center or a doctor if you feel unwell.   |

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

|                                     |  |
|-------------------------------------|--|
| Symptoms/effects after skin contact | : Irritation. May cause an allergic skin reaction. |
| Symptoms/effects after eye contact  | : Eye irritation.                                  |

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

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

|                              |                                  |
|------------------------------|----------------------------------|
| Suitable extinguishing media | : Water spray. Dry powder. Foam. |
|------------------------------|----------------------------------|

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

|  |                                |
|--|--------------------------------|
| Hazardous decomposition products in case of fire | : Toxic fumes may be released. |
|--|--------------------------------|

### 5.3. Advice for firefighters

|                                |  |
|--------------------------------|--|
| Protection during firefighting | : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing. |
|--------------------------------|--|

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### SECTION 6: Accidental release measures

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

##### 6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. Avoid contact with skin and eyes. Avoid breathing dust, fume, vapours.

##### 6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

#### 6.2. Environmental precautions

Avoid release to the environment.

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

Methods for cleaning up : Mechanically recover the product.  
Other information : Dispose of materials or solid residues at an authorized site.

#### 6.4. Reference to other sections

For further information refer to section 13.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Avoid contact with skin and eyes. Wear personal protective equipment. Avoid breathing dust, fume, vapours.  
Hygiene measures : Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

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

Storage conditions : Store in a well-ventilated place. Keep cool.

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

No additional information available

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### 8.1.1 National occupational exposure and biological limit values

No additional information available

##### 8.1.2. Recommended monitoring procedures

No additional information available

##### 8.1.3. Air contaminants formed

No additional information available

##### 8.1.4. DNEL and PNEC

No additional information available

##### 8.1.5. Control banding

No additional information available

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### 8.2. Exposure controls

#### 8.2.1. Appropriate engineering controls

**Appropriate engineering controls:**

Ensure good ventilation of the work station.

#### 8.2.2. Personal protection equipment

**Personal protective equipment symbol(s):**



##### 8.2.2.1. Eye and face protection

**Eye protection:**

Safety glasses

##### 8.2.2.2. Skin protection

**Skin and body protection:**

Wear suitable protective clothing

**Hand protection:**

Protective gloves

##### 8.2.2.3. Respiratory protection

**Respiratory protection:**

In case of insufficient ventilation, wear suitable respiratory equipment

##### 8.2.2.4. Thermal hazards

No additional information available

#### 8.2.3. Environmental exposure controls

**Environmental exposure controls:**

Avoid release to the environment.

## SECTION 9: Physical and chemical properties

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

|   |                              |
|---|------------------------------|
| Physical state                                  | : Solid                      |
| Colour  | : Light yellow / Milky white |
| Appearance                                      | : Paste.                     |
| Odour   | : Acrylic.                   |
| Odour threshold                                 | : Not available              |
| Melting point                                   | : Not available              |
| Freezing point                                  | : Not applicable             |
| Boiling point                                   | : Not available              |
| Flammability                                    | : Non flammable.             |
| Explosive limits                                | : Not applicable             |
| Lower explosion limit                           | : Not applicable             |
| Upper explosion limit                           | : Not applicable             |
| Flash point                                     | : Not applicable             |
| Auto-ignition temperature                       | : Not applicable             |
| Decomposition temperature                       | : Not available              |
| pH  | : Not available              |
| pH solution                                     | : Not available              |
| Viscosity, kinematic                            | : Not applicable             |
| Solubility                                      | : Not available              |
| Partition coefficient n-octanol/water (Log Kow) | : Not available              |
| Vapour pressure                                 | : Not available              |
| Vapour pressure at 50°C                         | : Not available              |

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|                                 |                  |
|---------------------------------|------------------|
| Density                         | : Not available  |
| Relative density                | : Not applicable |
| Relative vapour density at 20°C | : Not applicable |
| Particle size                   | : Not available  |
| Particle size distribution      | : Not available  |
| Particle shape                  | : Not available  |
| Particle aspect ratio           | : Not available  |
| Particle aggregation state      | : Not available  |
| Particle agglomeration state    | : Not available  |
| Particle specific surface area  | : Not available  |
| Particle dustiness              | : Not available  |

### 9.2. Other information

#### 9.2.1. Information with regard to physical hazard classes

No additional information available

#### 9.2.2. Other safety characteristics

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

### 10.5. Incompatible materials

No additional information available

### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## SECTION 11: Toxicological information

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

|                             |                  |
|-----------------------------|------------------|
| Acute toxicity (oral)       | : Not classified |
| Acute toxicity (dermal)     | : Not classified |
| Acute toxicity (inhalation) | : Not classified |

| Triethylene Glycol Dimethacrylate (109-16-0) |   |
|--|---|
| LD50 oral rat                                | 10837 mg/kg Source: NLM, THOMSON  |
| Ytterbium Fluoride (13760-80-0)              |   |
| LD50 oral rat                                | > 2000 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 420 (Acute Oral Toxicity - Fixed Dose Method), Guideline: EU Method B.1 bis (Acute Oral Toxicity - Fixed Dose Procedure) |

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| <b>Tetrahydrofurfuryl Methacrylate (2455-24-5)</b>    |  |
|---|--|
| LD50 oral rat   | ≈ 4000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity)   |
| <b>Trimethylolpropane Trimethacrylate (3290-92-4)</b> |  |
| LD50 oral rat   | > 2000 mg/kg bodyweight (OECD 423: Acute Oral Toxicity – Acute Toxic Class Method, Rat, Female, Experimental value, Oral, 14 day(s)) |
| LD50 dermal rat                                       | > 2000 mg/kg bodyweight (OECD 402: Acute Dermal Toxicity, 24 h, Rat, Male / female, Experimental value, Dermal, 14 day(s))           |
| LD50 dermal rabbit                                    | 17120 mg/kg (Rabbit)   |
| Skin corrosion/irritation                             | : Causes skin irritation.  |
| <b>Triethylene Glycol Dimethacrylate (109-16-0)</b>   |  |
| pH  | 6.8 - 7.2  |
| <b>Ytterbium Fluoride (13760-80-0)</b>                |  |
| pH  | 4.53 Temp.: 20 °C  |
| <b>Tetrahydrofurfuryl Methacrylate (2455-24-5)</b>    |  |
| pH  | No data available in the literature  |
| <b>Trimethylolpropane Trimethacrylate (3290-92-4)</b> |  |
| pH  | 5.7 (20.1 mg/l, 20 °C, OECD 105: Water Solubility)   |
| Serious eye damage/irritation                         | : Causes serious eye irritation.   |
| <b>Triethylene Glycol Dimethacrylate (109-16-0)</b>   |  |
| pH  | 6.8 - 7.2  |
| <b>Ytterbium Fluoride (13760-80-0)</b>                |  |
| pH  | 4.53 Temp.: 20 °C  |
| <b>Tetrahydrofurfuryl Methacrylate (2455-24-5)</b>    |  |
| pH  | No data available in the literature  |
| <b>Trimethylolpropane Trimethacrylate (3290-92-4)</b> |  |
| pH  | 5.7 (20.1 mg/l, 20 °C, OECD 105: Water Solubility)   |
| Respiratory or skin sensitisation                     | : May cause an allergic skin reaction.   |
| Germ cell mutagenicity                                | : Not classified   |
| Carcinogenicity                                       | : Not classified   |
| <b>Ytterbium Fluoride (13760-80-0)</b>                |  |
| IARC group  | 4 - Probably not carcinogenic to humans  |
| Reproductive toxicity                                 | : Not classified   |
| STOT-single exposure                                  | : May cause respiratory irritation.  |
| <b>Urethane Dimethacrylate (Proprietary)</b>          |  |
| STOT-single exposure                                  | May cause drowsiness or dizziness.   |
| <b>Ytterbium Oxide-Silica (NA)</b>                    |  |
| STOT-single exposure                                  | May cause respiratory irritation.  |
| <b>Tetrahydrofurfuryl Methacrylate (2455-24-5)</b>    |  |
| STOT-single exposure                                  | May cause respiratory irritation.  |

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| <b>BisGMA (1565-94-2)</b> |                                   |
|---------------------------|-----------------------------------|
| STOT-single exposure      | May cause respiratory irritation. |
| STOT-repeated exposure    | : Not classified                  |

| <b>Triethylene Glycol Dimethacrylate (109-16-0)</b> |  |
|---|--|
| LOAEC (inhalation, rat, gas, 90 days)               | 350 ppm Animal: rat, Guideline: OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day Study), Remarks on results: other:  |
| NOAEL (oral, rat, 90 days)                          | 1000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test) |
| NOAEC (inhalation, rat, gas, 90 days)               | 100 ppm Animal: rat, Guideline: OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day Study), Remarks on results: other:  |

| <b>Trimethylolpropane Trimethacrylate (3290-92-4)</b> |  |
|---|--|
| LOAEL (oral, rat, 90 days)                            | 1000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents), Guideline: EU Method B.26 (Sub-Chronic Oral Toxicity Test: Repeated Dose 90-Day Oral Toxicity Study in Rodents)                            |
| LOAEL (dermal, rat/rabbit, 90 days)                   | 300 mg/kg bodyweight Animal: rabbit  |
| NOAEL (oral, rat, 90 days)                            | 300 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents), Guideline: EU Method B.26 (Sub-Chronic Oral Toxicity Test: Repeated Dose 90-Day Oral Toxicity Study in Rodents), Remarks on results: other: |
| NOAEL (dermal, rat/rabbit, 90 days)                   | 300 mg/kg bodyweight Animal: rabbit  |
| Aspiration hazard                                     | : Not classified   |

| <b>eCEMENT DC Base</b> |                |
|------------------------|----------------|
| Viscosity, kinematic   | Not applicable |

| <b>Tetrahydrofurfuryl Methacrylate (2455-24-5)</b> |   |
|--|---|
| Viscosity, kinematic                               | 2.74 mm <sup>2</sup> /s (20 °C, OECD 114: Viscosity of Liquids) |

| <b>Trimethylolpropane Trimethacrylate (3290-92-4)</b> |                          |
|---|--------------------------|
| Viscosity, kinematic                                  | 6.166 mm <sup>2</sup> /s |

### 11.2. Information on other hazards

No additional information available

## SECTION 12: Ecological information

### 12.1. Toxicity

|   |   |
|---|---|
| Ecology - general   | : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment. |
| Hazardous to the aquatic environment, short-term (acute)  | : Not classified  |
| Hazardous to the aquatic environment, long-term (chronic) | : Not classified  |

| <b>Triethylene Glycol Dimethacrylate (109-16-0)</b> |  |
|---|--|
| LC50 - Fish [1]                                     | 16.4 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)   |
| EC50 72h - Algae [1]                                | > 100 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum) |
| EC50 72h - Algae [2]                                | 72.8 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)  |



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| Triethylene Glycol Dimethacrylate (109-16-0)   |   |
|--|---|
| ErC50 algae                                    | > 100 mg/l (Equivalent or similar to EU Method C.3, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value)                |
| LOEC (chronic)                                 | 100 mg/l Test organisms (species): Daphnia magna Duration: '21 d'   |
| NOEC (chronic)                                 | 32 mg/l Test organisms (species): Daphnia magna Duration: '21 d'  |
| Ytterbium Fluoride (13760-80-0)                |   |
| EC50 - Crustacea [1]                           | > 0.52 mg/l Test organisms (species): Daphnia magna   |
| Tetrahydrofurfuryl Methacrylate (2455-24-5)    |   |
| LC50 - Fish [1]                                | 34.7 mg/l Test organisms (species): Pimephales promelas   |
| LC50 - Fish [2]                                | 60.9 mg/l Test organisms (species): Pimephales promelas   |
| EC50 - Crustacea [1]                           | 97.3 mg/l (Invertebrata, Fresh water)   |
| EC50 72h - Algae [1]                           | > 100 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)   |
| ErC50 algae                                    | > 100 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Desmodesmus subspicatus, Static system, Fresh water, Experimental value, Nominal concentration) |
| LOEC (chronic)                                 | 97.3 mg/l Test organisms (species): Daphnia magna Duration: '21 d'  |
| NOEC (chronic)                                 | 37.2 mg/l Test organisms (species): Daphnia magna Duration: '21 d'  |
| Trimethylolpropane Trimethacrylate (3290-92-4) |   |
| LC50 - Fish [1]                                | 0.731 mg/l Source: Ecological Structure Activity Relationships  |
| EC50 - Crustacea [1]                           | > 9.22 mg/l Test organisms (species): Daphnia magna   |
| ErC50 algae                                    | 3.88 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, GLP)            |

### 12.2. Persistence and degradability

| Triethylene Glycol Dimethacrylate (109-16-0)   |   |
|--|---|
| Persistence and degradability                  | Readily biodegradable in water.                               |
| Ytterbium Oxide-Silica (NA)                    |   |
| Persistence and degradability                  | Biodegradability: not applicable.                             |
| Chemical oxygen demand (COD)                   | Not applicable  |
| ThOD   | Not applicable  |
| BOD (% of ThOD)                                | Not applicable  |
| Tetrahydrofurfuryl Methacrylate (2455-24-5)    |   |
| Persistence and degradability                  | Readily biodegradable in water.                               |
| Trimethylolpropane Trimethacrylate (3290-92-4) |   |
| Persistence and degradability                  | Not readily biodegradable in water. Inherently biodegradable. |
| BisGMA (1565-94-2)                             |   |
| Persistence and degradability                  | Biodegradability in water: no data available.                 |

### 12.3. Bioaccumulative potential

| Triethylene Glycol Dimethacrylate (109-16-0)    |  |
|---|--|
| Partition coefficient n-octanol/water (Log Pow) | 2.3 (Practical experience/observation, EU Method A.8: Partition Coefficient) |

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| Triethylene Glycol Dimethacrylate (109-16-0)    |   |
|---|---|
| Bioaccumulative potential                       | Low potential for bioaccumulation (Log Kow < 4).  |
| Ytterbium Fluoride (13760-80-0)                 |   |
| Partition coefficient n-octanol/water (Log Pow) | 0.22 Source: EPISUITE   |
| Ytterbium Oxide-Silica (NA)                     |   |
| Bioaccumulative potential                       | No bioaccumulation data available.  |
| Tetrahydrofurfuryl Methacrylate (2455-24-5)     |   |
| Partition coefficient n-octanol/water (Log Pow) | 1.76 (Experimental value, EU Method A.8: Partition Coefficient, 22.6 °C)                          |
| Bioaccumulative potential                       | Low potential for bioaccumulation (Log Kow < 4).  |
| Trimethylolpropane Trimethacrylate (3290-92-4)  |   |
| BCF - Fish [1]                                  | 270.1 l/kg (BCFBAF v3.01, Pisces, Fresh water, Calculated value)                                  |
| Partition coefficient n-octanol/water (Log Pow) | 4.193 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method, 25 °C) |
| Bioaccumulative potential                       | Potential for bioaccumulation (4 ≤ Log Kow ≤ 5).  |
| BisGMA (1565-94-2)                              |   |
| Partition coefficient n-octanol/water (Log Pow) | 4.94 (Estimated value)  |
| Bioaccumulative potential                       | No bioaccumulation data available.  |

### 12.4. Mobility in soil

| Triethylene Glycol Dimethacrylate (109-16-0)               |   |
|--|---|
| Organic Carbon Normalized Adsorption Coefficient (Log Koc) | 1.89 (log Koc, Calculated value)  |
| Ecology - soil   | Highly mobile in soil.  |
| Ytterbium Oxide-Silica (NA)                                |   |
| Ecology - soil   | Adsorbs into the soil.  |
| Tetrahydrofurfuryl Methacrylate (2455-24-5)                |   |
| Surface tension  | No data available in the literature   |
| Organic Carbon Normalized Adsorption Coefficient (Log Koc) | 1.402 - 1.765 (log Koc, SRC PCKOCWIN v2.0, Calculated value)  |
| Ecology - soil   | Highly mobile in soil.  |
| Trimethylolpropane Trimethacrylate (3290-92-4)             |   |
| Surface tension  | 53 mN/m (20 °C, 0.951 g/l, OECD 115: Surface Tension of Aqueous Solutions)  |
| Organic Carbon Normalized Adsorption Coefficient (Log Koc) | 3.245 (log Koc, OECD 121: Estimation of the Adsorption Coefficient (Koc) on Soil and on Sewage Sludge using High Performance Liquid Chromatography (HPLC), Experimental value, GLP) |
| Ecology - soil   | Low potential for mobility in soil.   |

### 12.5. Results of PBT and vPvB assessment

No additional information available

### 12.6. Endocrine disrupting properties

No additional information available

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### 12.7. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

## SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

### 14.1. UN number or ID number

UN-No. (ADR) : Not applicable  
UN-No. (IMDG) : Not applicable  
UN-No. (IATA) : Not applicable  
UN-No. (ADN) : Not applicable  
UN-No. (RID) : Not applicable

### 14.2. UN proper shipping name

Proper Shipping Name (ADR) : Not applicable  
Proper Shipping Name (IMDG) : Not applicable  
Proper Shipping Name (IATA) : Not applicable  
Proper Shipping Name (ADN) : Not applicable  
Proper Shipping Name (RID) : Not applicable

### 14.3. Transport hazard class(es)

**ADR**  
Transport hazard class(es) (ADR) : Not applicable

**IMDG**  
Transport hazard class(es) (IMDG) : Not applicable

**IATA**  
Transport hazard class(es) (IATA) : Not applicable

**ADN**  
Transport hazard class(es) (ADN) : Not applicable

**RID**  
Transport hazard class(es) (RID) : Not applicable

### 14.4. Packing group

Packing group (ADR) : Not applicable  
Packing group (IMDG) : Not applicable  
Packing group (IATA) : Not applicable  
Packing group (ADN) : Not applicable  
Packing group (RID) : Not applicable

### 14.5. Environmental hazards

Dangerous for the environment : No  
Marine pollutant : No  
Other information : No supplementary information available

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### 14.6. Special precautions for user

**Overland transport**

Not applicable

**Transport by sea**

Not applicable

**Air transport**

Not applicable

**Inland waterway transport**

Not applicable

**Rail transport**

Not applicable

### 14.7. Maritime transport in bulk according to IMO instruments

Not applicable

## SECTION 15: Regulatory information

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

#### 15.1.1. EU-Regulations

**REACH Annex XVII (Restriction List)**

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

**REACH Annex XIV (Authorisation List)**

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

**REACH Candidate List (SVHC)**

Contains no substance(s) listed on the REACH Candidate List

**PIC Regulation (Prior Informed Consent)**

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

**POP Regulation (Persistent Organic Pollutants)**

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

**Ozone Regulation (1005/2009)**

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

**Explosives Precursors Regulation (2019/1148)**

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

**Drug Precursors Regulation (273/2004)**

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

#### 15.1.2. National regulations

No additional information available

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

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### SECTION 16: Other information

| Indication of changes |   |          |          |
|-----------------------|---|----------|----------|
| Section               | Changed item  | Change   | Comments |
|                       | Supersedes version of   | Added    |          |
|                       | Revision date   | Added    |          |
| 2.1                   | Classification according to Regulation (EC) No. 1272/2008 [CLP] | Modified |          |
| 3                     | Composition/information on ingredients                          | Modified |          |

| Full text of H- and EUH-statements: |  |
|-------------------------------------|--|
| Aquatic Acute 1                     | Hazardous to the aquatic environment - Acute Hazard, Category 1        |
| Eye Irrit. 2                        | Serious eye damage/eye irritation, Category 2                          |
| H315                                | Causes skin irritation.  |
| H317                                | May cause an allergic skin reaction.                                   |
| H319                                | Causes serious eye irritation.   |
| H335                                | May cause respiratory irritation.                                      |
| H336                                | May cause drowsiness or dizziness.                                     |
| H400                                | Very toxic to aquatic life.  |
| Skin Irrit. 2                       | Skin corrosion/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, Narcosis |

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.