



# Sealoflex Ultima EP1 Primer

## Safety Data Sheet

according to The REACH etc. (Amendment etc.) (EU Exit) 2020 Regulations  
Issue date: 19/09/2019 Revision date: 04/07/2023 Supersedes version of: 09/12/2022 Version: 5.0

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

#### 1.1. Product identifier

Product form : Mixture  
Trade name : Sealoflex Ultima EP1 Primer  
UFI : EVV5-5GHJ-030Y-R6MG

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

##### 1.2.1. Relevant identified uses

Main use category : Professional use  
Use of the substance/mixture : Primer

##### 1.2.2. Uses advised against

No additional information available

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

##### Manufacturer

BMI Group Operations, SARL  
Albert Borschette, 2B  
P.O. Box 99137  
1246 LUXEMBOURG  
LUXEMBOURG  
T +33254737072  
[bmi.sds@bmigroup.com](mailto:bmi.sds@bmigroup.com)

##### Distributor

BMI Group UK Ltd  
BMI House 2  
Pitfield, kiln Farm  
P.O. Box 2  
MK11 3LW Milton Keynes  
United kingdom  
T +44 (0) 1908 015760  
[www.bmigroup.com/uk](http://www.bmigroup.com/uk)

#### 1.4. Emergency telephone number

| Country        | Organisation/Company   | Address                | Emergency number | Comment                           |
|----------------|--|------------------------|------------------|-----------------------------------|
| United Kingdom | National Poisons Information Service<br>(Birmingham Centre)<br>City Hospital | Dudley Road<br>B18 7QH | 0344 892 0111    | Only for healthcare professionals |

### SECTION 2: Hazards identification

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

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

Not classified

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

May produce an allergic reaction.

#### 2.2. Label elements

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

EUH-statements : EUH208 - Contains 2,4,7,9-Tetramethyl-5-decin-4,7-diol, reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1), 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one, [3-(2,3-epoxypropoxy)propyl]diethoxymethylsilane.  
May produce an allergic reaction.  
EUH210 - Safety data sheet available on request.

#### 2.3. Other hazards

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

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| Component  |   |
|--|---|
| 2,4,7,9-Tetramethyl-5-decin-4,7-diol (126-86-3)  | 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 |
| reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) (55965-84-9) | 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 |
| 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one (2634-33-5)                                       | 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 |
| [3-(2,3-epoxypropoxy)propyl]diethoxymethylsilane (2897-60-1)   | 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 |
| 2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether (112-34-5)                                    | 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 |

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   |   |
|---|---|
| 2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether(112-34-5)                                    | The substance is not 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 |
| [3-(2,3-epoxypropoxy)propyl]diethoxymethylsilane(2897-60-1)   | The substance is not 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 |
| 2,4,7,9-Tetramethyl-5-decin-4,7-diol(126-86-3)  | The substance is not 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 |
| 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one(2634-33-5)                                       | The substance is not 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 |
| reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)(55965-84-9) | The substance is not 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 |

## 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] |
|---|--|---------|---|
| 2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether<br>substance with national workplace exposure limit(s) (GB); substance with a Community workplace exposure limit | CAS-No.: 112-34-5<br>EC-No.: 203-961-6<br>EC Index-No.: 603-096-00-8<br>REACH-no: 01-2119475104-44 | 0.1 – 5 | Eye Irrit. 2, H319  |

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| Name   | Product identifier  | %           | Classification according to Regulation (EC) No. 1272/2008 [CLP]   |
|--|---|-------------|---|
| [3-(2,3-epoxypropoxy)propyl]diethoxymethylsilane   | CAS-No.: 2897-60-1<br>EC-No.: 220-780-8<br>REACH-no: 01-2120120420-79                               | 0.1 – 5     | Skin Sens. 1B, H317<br>Aquatic Chronic 3, H412  |
| 2,4,7,9-Tetramethyl-5-decin-4,7-diol   | CAS-No.: 126-86-3<br>EC-No.: 204-809-1<br>REACH-no: 01-2119954390-39                                | 0.13 - 0.26 | Eye Dam. 1, H318<br>Skin Sens. 1, H317<br>Aquatic Chronic 3, H412   |
| 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one   | CAS-No.: 2634-33-5<br>EC-No.: 220-120-9<br>EC Index-No.: 613-088-00-6<br>REACH-no: 01-2120761540-60 | < 0.5       | Acute Tox. 4 (Oral), H302 (ATE=490 mg/kg bodyweight)<br>Skin Irrit. 2, H315<br>Eye Dam. 1, H318<br>Skin Sens. 1, H317<br>Aquatic Acute 1, H400 (M=1)  |
| reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) (Note B) | CAS-No.: 55965-84-9<br>EC-No.: 911-418-6<br>EC Index-No.: 613-167-00-5                              | < 0.0015    | Acute Tox. 2 (Inhalation), H330 (ATE=0.05 mg/l/4h)<br>Acute Tox. 2 (Dermal), H310 (ATE=50 mg/kg bodyweight)<br>Acute Tox. 3 (Oral), H301 (ATE=100 mg/kg bodyweight)<br>Skin Corr. 1C, H314<br>Eye Dam. 1, H318<br>Skin Sens. 1A, H317<br>Aquatic Acute 1, H400 (M=100)<br>Aquatic Chronic 1, H410 (M=100) |

| Specific concentration limits:  |   |  |
|---|---|--|
| Name  | Product identifier  | Specific concentration limits  |
| 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one                                      | CAS-No.: 2634-33-5<br>EC-No.: 220-120-9<br>EC Index-No.: 613-088-00-6<br>REACH-no: 01-2120761540-60 | ( 0.05 ≤C < 100) Skin Sens. 1, H317  |
| reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) | CAS-No.: 55965-84-9<br>EC-No.: 911-418-6<br>EC Index-No.: 613-167-00-5                              | ( 0.0015 ≤C ≤ 100) Skin Sens. 1A, H317<br>( 0.06 ≤C < 0.6) Eye Irrit. 2, H319<br>( 0.06 ≤C < 0.6) Skin Irrit. 2, H315<br>( 0.6 ≤C ≤ 100) Eye Dam. 1, H318<br>( 0.6 ≤C ≤ 100) Skin Corr. 1C, H314 |

Note B: Some substances (acids, bases, etc.) are placed on the market in aqueous solutions at various concentrations and, therefore, these solutions require different classification and labelling since the hazards vary at different concentrations. In Part 3 entries with Note B have a general designation of the following type: '... %'. In this case the supplier must state the percentage concentration of the solution on the label. Unless otherwise stated, it is assumed that the percentage concentration is calculated on a weight/weight basis.

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.

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First-aid measures after eye contact : Rinse eyes with water as a precaution.  
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

No additional information available

### 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. Carbon dioxide.

### 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.

## 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.

#### 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 : Take up liquid spill into absorbent material.  
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. Wear personal protective equipment.  
Hygiene measures : 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

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### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

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

| 2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether (112-34-5) |                                       |
|---|---------------------------------------|
| <b>EU - Indicative Occupational Exposure Limit (IOEL)</b>               |                                       |
| Local name  | 2-(2-Butoxyethoxy)ethanol             |
| IOEL TWA  | 67.5 mg/m <sup>3</sup>                |
| IOEL TWA [ppm]  | 10 ppm                                |
| IOEL STEL   | 101.2 mg/m <sup>3</sup>               |
| IOEL STEL [ppm]   | 15 ppm                                |
| Regulatory reference  | COMMISSION DIRECTIVE 2006/15/EC       |
| <b>United Kingdom - Occupational Exposure Limits</b>                    |                                       |
| Local name  | 2-(2-Butoxyethoxy)ethanol             |
| WEL TWA (OEL TWA) [1]   | 67.5 mg/m <sup>3</sup>                |
| WEL TWA (OEL TWA) [2]   | 10 ppm                                |
| WEL STEL (OEL STEL)   | 101.2 mg/m <sup>3</sup>               |
| WEL STEL (OEL STEL) [ppm]   | 15 ppm                                |
| Regulatory reference  | EH40/2005 (Fourth edition, 2020). HSE |

##### 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

#### 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:

Safety glasses. Gloves.

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



##### 8.2.2.1. Eye and face protection

###### Eye protection:

Safety glasses

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### 8.2.2.2. Skin protection

#### Skin and body protection:

Wear suitable protective clothing

#### Hand protection:

Protective gloves

| Hand protection   |                      |            |                |             |            |
|-------------------|----------------------|------------|----------------|-------------|------------|
| Type              | Material             | Permeation | Thickness (mm) | Penetration | Standard   |
| Disposable gloves | Nitrile rubber (NBR) |            | 0.1 mm         |             | EN ISO 374 |

### 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                                  | : Liquid         |
| Colour  | : white.         |
| Odour   | : slight.        |
| Odour threshold                                 | : Not available  |
| Melting point                                   | : Not applicable |
| Freezing point                                  | : Not available  |
| Boiling point                                   | : Not available  |
| Flammability                                    | : Not applicable |
| Explosive limits                                | : Not available  |
| Lower explosion limit                           | : Not available  |
| Upper explosion limit                           | : Not available  |
| Flash point                                     | : Not available  |
| Auto-ignition temperature                       | : Not available  |
| Decomposition temperature                       | : Not available  |
| pH  | : 8.5 – 9.5      |
| Viscosity, kinematic                            | : Not available  |
| Viscosity, dynamic                              | : 15 – 25 mPa·s  |
| Solubility                                      | : Not available  |
| Partition coefficient n-octanol/water (Log Kow) | : Not available  |
| Vapour pressure                                 | : Not available  |
| Vapour pressure at 50°C                         | : Not available  |
| Density   | : 1.03 kg/l      |
| Relative density                                | : Not available  |
| Relative vapour density at 20°C                 | : Not available  |
| Particle characteristics                        | : Not applicable |

### 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

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### 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 (Based on available data, the classification criteria are not met)  
Acute toxicity (dermal) : Not classified (Based on available data, the classification criteria are not met)  
Acute toxicity (inhalation) : Not classified (Based on available data, the classification criteria are not met)

#### 2,4,7,9-Tetramethyl-5-decin-4,7-diol (126-86-3)

|                       |  |
|-----------------------|--|
| LD50 oral rat         | > 500 mg/kg bodyweight Animal: rat, Guideline: other:  |
| LD50 dermal rat       | > 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)                 |
| LC50 Inhalation - Rat | > 20 mg/l (1 h, Rat, Male / female, Experimental value, Aqueous solution, Inhalation (aerosol), 14 day(s)) |

#### reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) (55965-84-9)

|                 |   |
|-----------------|---|
| LD50 dermal rat | > 1008 mg/kg bodyweight Animal: rat, Guideline: EPA OPP 81-2 (Acute Dermal Toxicity), Guideline: OECD Guideline 402 (Acute Dermal Toxicity) |
|-----------------|---|

#### 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one (2634-33-5)

|                 |   |
|-----------------|---|
| LD50 oral rat   | 490 mg/kg bodyweight (Equivalent or similar to OECD 401, Rat, Male / female, Experimental value, Oral, 14 day(s)) |
| LD50 dermal rat | > 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)                        |

#### [3-(2,3-epoxypropoxy)propyl]diethoxymethylsilane (2897-60-1)

|                 |  |
|-----------------|--|
| LD50 oral rat   | > 2000 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 423 (Acute Oral toxicity - Acute Toxic Class Method), Guideline: EPA OPPTS 870.1100 (Acute Oral Toxicity) |
| LD50 dermal rat | > 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)   |

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| <b>2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether (112-34-5)</b> |  |
|--|--|
| LD50 oral  | 2410 – 5530 mg/kg bodyweight (Equivalent or similar to OECD 401, Mouse, Male, Experimental value, Oral, 14 day(s))                 |
| LD50 dermal rabbit   | 2764 mg/kg bodyweight Animal: rabbit, Animal sex: male, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), 95% CL: 2090 - 3645 |

|                                   |  |
|-----------------------------------|--|
| Skin corrosion/irritation         | : Not classified (Based on available data, the classification criteria are not met)<br>pH: 8.5 – 9.5 |
| Serious eye damage/irritation     | : Not classified (Based on available data, the classification criteria are not met)<br>pH: 8.5 – 9.5 |
| Respiratory or skin sensitisation | : Not classified (Based on available data, the classification criteria are not met)                  |
| Germ cell mutagenicity            | : Not classified (Based on available data, the classification criteria are not met)                  |
| Carcinogenicity                   | : Not classified (Based on available data, the classification criteria are not met)                  |
| Reproductive toxicity             | : Not classified (Based on available data, the classification criteria are not met)                  |

| <b>1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one (2634-33-5)</b> |   |
|---|---|
| NOAEL (animal/female, F1)   | 56.6 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: EPA OPPTS 870.3800 (Reproduction and Fertility Effects) |

| <b>2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether (112-34-5)</b> |   |
|--|---|
| NOAEL (animal/male, F0/P)  | > 452 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: other:             |
| NOAEL (animal/female, F0/P)  | > 470 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: other:           |
| STOT-single exposure   | : Not classified (Based on available data, the classification criteria are not met) |
| STOT-repeated exposure   | : Not classified (Based on available data, the classification criteria are not met) |

| <b>2,4,7,9-Tetramethyl-5-decin-4,7-diol (126-86-3)</b> |   |
|--|---|
| NOAEL (oral, rat, 90 days)                             | ≈ 150 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity Study in Rodents) |

| <b>reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) (55965-84-9)</b> |  |
|---|--|
| LOAEL (dermal, rat/rabbit, 90 days)   | 0.525 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: EPA OPP 82-3 (Subchronic Dermal Toxicity 90 Days) |

| <b>[3-(2,3-epoxypropoxy)propyl]diethoxymethylsilane (2897-60-1)</b> |  |
|---|--|
| NOAEL (oral, rat, 90 days)  | ≥ 1000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity Study in Rodents) |

| <b>2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether (112-34-5)</b> |   |
|--|---|
| NOAEL (oral, rat, 90 days)   | 250 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), Guideline: EPA OPPTS 870.3100 (90-Day Oral Toxicity in Rodents) |
| NOAEL (dermal, rat/rabbit, 90 days)  | < 200 mg/kg bodyweight Animal: rat, Guideline: other:, Guideline: OECD Guideline 411 (Subchronic Dermal Toxicity: 90-Day Study)   |

|                   |   |
|-------------------|---|
| Aspiration hazard | : Not classified (Based on available data, the classification criteria are not met) |
|-------------------|---|

### 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. |
|-------------------|---|



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Hazardous to the aquatic environment, short-term : Not classified (Based on available data, the classification criteria are not met) (acute)

Hazardous to the aquatic environment, long-term : Not classified (Based on available data, the classification criteria are not met) (chronic)

| <b>2,4,7,9-Tetramethyl-5-decin-4,7-diol (126-86-3)</b>  |   |
|---|---|
| LC50 - Fish [1]   | 42 mg/l Test organisms (species): Cyprinus carpio   |
| EC50 - Crustacea [1]  | 91 mg/l Test organisms (species): Daphnia magna   |
| EC50 72h - Algae [1]  | 15 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum)                   |
| <b>reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) (55965-84-9)</b> |   |
| LC50 - Fish [1]   | 0.19 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)  |
| LC50 - Fish [2]   | 0.28 mg/l Test organisms (species): Lepomis macrochirus   |
| EC50 - Crustacea [1]  | 0.16 mg/l Test organisms (species): Daphnia magna   |
| NOEC (chronic)  | 0.1 mg/l Test organisms (species): Daphnia magna Duration: '21 d'   |
| NOEC chronic fish   | 0.098 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri) Duration: '28 d'  |
| <b>1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one (2634-33-5)</b>                                       |   |
| LC50 - Fish [1]   | 16.7 mg/l Test organisms (species): Cyprinodon variegatus   |
| LC50 - Fish [2]   | 2.15 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)  |
| EC50 - Crustacea [1]  | 2.94 mg/l Test organisms (species): Daphnia magna   |
| EC50 - Crustacea [2]  | 2.9 mg/l Test organisms (species): Daphnia magna  |
| ErC50 algae   | 150 µg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata, Experimental value, GLP)   |
| <b>[3-(2,3-epoxypropoxy)propyl]diethoxymethylsilane (2897-60-1)</b>   |   |
| LC50 - Fish [1]   | 180 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Oncorhynchus mykiss, Static system, Fresh water, Experimental value)                                 |
| EC50 - Crustacea [1]  | 20 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value)                            |
| EC50 72h - Algae [1]  | > 17 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)  |
| EC50 72h - Algae [2]  | 1.8 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)   |
| ErC50 algae   | 1.8 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Desmodesmus subspicatus, Static system, Fresh water, Experimental value)                          |
| <b>2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether (112-34-5)</b>                                    |   |
| LC50 - Fish [1]   | 1300 mg/l Test organisms (species): Lepomis macrochirus   |
| EC50 - Crustacea [1]  | > 100 mg/l Test organisms (species): Daphnia magna  |
| EC50 96h - 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, 96 h, Desmodesmus subspicatus, Static system, Fresh water, Experimental value, Nominal concentration) |

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### 12.2. Persistence and degradability

#### 2,4,7,9-Tetramethyl-5-decin-4,7-diol (126-86-3)

|                               |   |
|-------------------------------|---|
| Persistence and degradability | Biodegradability in water: no data available. |
|-------------------------------|---|

#### 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one (2634-33-5)

|                               |                                   |
|-------------------------------|-----------------------------------|
| Persistence and degradability | Difficult to biodegrade in water. |
|-------------------------------|-----------------------------------|

#### [3-(2,3-epoxypropoxy)propyl]diethoxymethylsilane (2897-60-1)

|                               |                                   |
|-------------------------------|-----------------------------------|
| Persistence and degradability | Difficult to biodegrade in water. |
|-------------------------------|-----------------------------------|

#### 2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether (112-34-5)

|                               |                                |
|-------------------------------|--------------------------------|
| Persistence and degradability | Easily biodegradable in water. |
|-------------------------------|--------------------------------|

### 12.3. Bioaccumulative potential

#### 2,4,7,9-Tetramethyl-5-decin-4,7-diol (126-86-3)

|                |   |
|----------------|---|
| BCF - Fish [1] | < 24 (28 day(s), Cyprinus carpio, Flow-through system, Fresh water, Read-across, GLP) |
|----------------|---|

|   |                   |
|---|-------------------|
| Partition coefficient n-octanol/water (Log Pow) | 2.64 (Calculated) |
|---|-------------------|

|                           |                                    |
|---------------------------|------------------------------------|
| Bioaccumulative potential | No bioaccumulation data available. |
|---------------------------|------------------------------------|

#### 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one (2634-33-5)

|                |  |
|----------------|--|
| BCF - Fish [1] | 6.62 (Equivalent or similar to OECD 305, 56 day(s), Lepomis macrochirus, Experimental value, Fresh weight) |
|----------------|--|

|   |   |
|---|---|
| Partition coefficient n-octanol/water (Log Pow) | -0.9 – 0.99 (Experimental value, EU Method A.8: Partition Coefficient, 20 °C) |
|---|---|

|                           |   |
|---------------------------|---|
| Bioaccumulative potential | Low potential for bioaccumulation (FCB <500). |
|---------------------------|---|

#### [3-(2,3-epoxypropoxy)propyl]diethoxymethylsilane (2897-60-1)

|   |                                 |
|---|---------------------------------|
| Partition coefficient n-octanol/water (Log Pow) | 2.7 (Calculated, KOWWIN, 20 °C) |
|---|---------------------------------|

|                           |   |
|---------------------------|---|
| Bioaccumulative potential | Low potential for bioaccumulation (Log Kow <4). |
|---------------------------|---|

#### 2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether (112-34-5)

|   |   |
|---|---|
| Partition coefficient n-octanol/water (Log Pow) | 1 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method, 20 °C) |
|---|---|

|                           |   |
|---------------------------|---|
| Bioaccumulative potential | Low potential for bioaccumulation (Log Kow <4). |
|---------------------------|---|

### 12.4. Mobility in soil

#### 2,4,7,9-Tetramethyl-5-decin-4,7-diol (126-86-3)

|                 |                            |
|-----------------|----------------------------|
| Surface tension | 32.7 mN/m (20 °C, 0.1 g/l) |
|-----------------|----------------------------|

|  |  |
|--|--|
| Organic Carbon Normalized Adsorption Coefficient (Log Koc) | 1.634 (log Koc, SRC PCKOCWIN v2.0, Calculated value) |
|--|--|

|                |                            |
|----------------|----------------------------|
| Ecology - soil | Very mobile in the ground. |
|----------------|----------------------------|

#### 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one (2634-33-5)

|                 |  |
|-----------------|--|
| Surface tension | 72.6 mN/m (20 °C, 0.1 %, EU Method A.5: Surface tension) |
|-----------------|--|

|  |  |
|--|--|
| Organic Carbon Normalized Adsorption Coefficient (Log Koc) | 0.97 (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 | Very mobile in the ground. |
|----------------|----------------------------|

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| [3-(2,3-epoxypropoxy)propyl]diethoxymethylsilane (2897-60-1)            |  |
|---|--|
| Ecology - soil  | No (test) data available on the mobility of the substance.               |
| 2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether (112-34-5) |  |
| Surface tension   | 67.5 mN/m (20 °C, 1 g/l, OECD 115: Surface Tension of Aqueous Solutions) |
| Organic Carbon Normalized Adsorption Coefficient (Log Koc)              | 0.642 – 1 (log Koc, SRC PCKOCWIN v2.0, Calculated value)                 |
| Ecology - soil  | Very mobile in the ground.   |

### 12.5. Results of PBT and vPvB assessment

| Component  |   |
|--|---|
| 2,4,7,9-Tetramethyl-5-decin-4,7-diol (126-86-3)  | 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 |
| reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) (55965-84-9) | 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 |
| 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one (2634-33-5)                                       | 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 |
| [3-(2,3-epoxypropoxy)propyl]diethoxymethylsilane (2897-60-1)   | 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 |
| 2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether (112-34-5)                                    | 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 |

### 12.6. Endocrine disrupting properties

No additional information available

### 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

| ADR                              | IMDG           | IATA           | ADN            | RID            |
|----------------------------------|----------------|----------------|----------------|----------------|
| 14.1. UN number or ID number     |                |                |                |                |
| Not applicable                   | Not applicable | Not applicable | Not applicable | Not applicable |
| 14.2. UN proper shipping name    |                |                |                |                |
| Not applicable                   | Not applicable | Not applicable | Not applicable | Not applicable |
| 14.3. Transport hazard class(es) |                |                |                |                |
| Not applicable                   | Not applicable | Not applicable | Not applicable | Not applicable |
| 14.4. Packing group              |                |                |                |                |
| Not applicable                   | Not applicable | Not applicable | Not applicable | Not applicable |

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| ADR                                    | IMDG           | IATA           | ADN            | RID            |
|--|----------------|----------------|----------------|----------------|
| <b>14.5. Environmental hazards</b>     |                |                |                |                |
| Not applicable                         | Not applicable | Not applicable | Not applicable | Not applicable |
| No supplementary information available |                |                |                |                |

### 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 in concentrations  $\geq 0.1\%$  or SCL

**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

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### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

### SECTION 16: Other information

#### Indication of changes

| Section | Changed item  | Change   | Comments |
|---------|---|----------|----------|
|         | Revision date   | Modified |          |
|         | Supersedes  | Modified |          |
|         | Version   | Modified |          |
| 1.1     | UFI   | Modified |          |
| 2.1     | Adverse physicochemical, human health and environmental effects | Modified |          |
| 2.3     | Other hazards not contributing to the classification            | Modified |          |
| 3       | Composition/information on ingredients                          | Modified |          |
| 9.1     | Colour  | Modified |          |
| 9.1     | pH  | Modified |          |
| 16      | Data sources  | Added    |          |
| 16      | Indication of changes   | Modified |          |

#### Abbreviations and acronyms:

|        |   |
|--------|---|
| ADN    | European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways |
| ADR    | European Agreement concerning the International Carriage of Dangerous Goods by Road             |
| ATE    | Acute Toxicity Estimate   |
| BCF    | Bioconcentration factor   |
| BLV    | Biological limit value  |
| BOD    | Biochemical oxygen demand (BOD)   |
| COD    | Chemical oxygen demand (COD)  |
| DMEL   | Derived Minimal Effect level  |
| DNEL   | Derived-No Effect Level   |
| EC-No. | European Community number   |
| EC50   | Median effective concentration  |
| EN     | European Standard   |
| IARC   | International Agency for Research on Cancer   |
| IATA   | International Air Transport Association   |
| IMDG   | International Maritime Dangerous Goods  |
| LC50   | Median lethal concentration   |
| LD50   | Median lethal dose  |
| LOAEL  | Lowest Observed Adverse Effect Level  |
| NOAEC  | No-Observed Adverse Effect Concentration  |

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| Abbreviations and acronyms: |  |
|-----------------------------|--|
| NOAEL                       | No-Observed Adverse Effect Level   |
| NOEC                        | No-Observed Effect Concentration   |
| OECD                        | Organisation for Economic Co-operation and Development                       |
| OEL                         | Occupational Exposure Limit  |
| PBT                         | Persistent Bioaccumulative Toxic   |
| PNEC                        | Predicted No-Effect Concentration  |
| RID                         | Regulations concerning the International Carriage of Dangerous Goods by Rail |
| SDS                         | Safety Data Sheet  |
| STP                         | Sewage treatment plant   |
| ThOD                        | Theoretical oxygen demand (ThOD)   |
| TLM                         | Median Tolerance Limit   |
| VOC                         | Volatile Organic Compounds   |
| CAS-No.                     | Chemical Abstract Service number   |
| N.O.S.                      | Not Otherwise Specified  |
| vPvB                        | Very Persistent and Very Bioaccumulative                                     |
| ED                          | Endocrine disrupting properties  |

Data sources : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006. ECHA (European Chemicals Agency). Supplier's safety documents.

| Full text of H- and EUH-statements: |   |
|-------------------------------------|---|
| Acute Tox. 2 (Dermal)               | Acute toxicity (dermal), Category 2   |
| Acute Tox. 2 (Inhalation)           | Acute toxicity (inhal.), Category 2   |
| Acute Tox. 3 (Oral)                 | Acute toxicity (oral), Category 3   |
| Acute Tox. 4 (Oral)                 | Acute toxicity (oral), Category 4   |
| Aquatic Acute 1                     | Hazardous to the aquatic environment – Acute Hazard, Category 1   |
| Aquatic Chronic 1                   | Hazardous to the aquatic environment – Chronic Hazard, Category 1   |
| Aquatic Chronic 3                   | Hazardous to the aquatic environment – Chronic Hazard, Category 3   |
| EUH208                              | Contains 2,4,7,9-Tetramethyl-5-decyl-4,7-diol, reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1), 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one, [3-(2,3-epoxypropoxy)propyl]diethoxymethylsilane. May produce an allergic reaction. |
| EUH210                              | Safety data sheet available on request.   |
| Eye Dam. 1                          | Serious eye damage/eye irritation, Category 1   |
| Eye Irrit. 2                        | Serious eye damage/eye irritation, Category 2   |
| H301                                | Toxic if swallowed.   |
| H302                                | Harmful if swallowed.   |
| H310                                | Fatal in contact with skin.   |
| H314                                | Causes severe skin burns and eye damage.  |
| H315                                | Causes skin irritation.   |

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| Full text of H- and EUH-statements: |  |
|-------------------------------------|--|
| H317                                | May cause an allergic skin reaction.                   |
| H318                                | Causes serious eye damage.                             |
| H319                                | Causes serious eye irritation.                         |
| H330                                | Fatal if inhaled.                                      |
| H400                                | Very toxic to aquatic life.                            |
| H410                                | Very toxic to aquatic life with long lasting effects.  |
| H412                                | Harmful to aquatic life with long lasting effects.     |
| Skin Corr. 1C                       | Skin corrosion/irritation, Category 1, Sub-Category 1C |
| Skin Irrit. 2                       | Skin corrosion/irritation, Category 2                  |
| Skin Sens. 1                        | Skin sensitisation, Category 1                         |
| Skin Sens. 1A                       | Skin sensitisation, category 1A                        |
| Skin Sens. 1B                       | Skin sensitisation, category 1B                        |

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.