

R7

Revision: 2017-09-09

Version: 05.3

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

**1.1 Product identifier**

Trade name: R7

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

**Identified uses:**

For professional use only.

AISE-P301 - General purpose cleaner. Manual process

AISE-P302 - General purpose cleaner. Spray and wipe manual process

**Uses advised against:** Uses other than those identified are not recommended

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

**Contact details**

Diversey Ltd

Weston Favell Centre, Northampton NN3 8PD, United Kingdom

Tel: 01604 405311, Fax: 01604 406809

Regulatory Email: customerservice.uk@diversey.com

**1.4 Emergency telephone number**

For medical or environmental emergency only:

call 0800 052 0185

**SECTION 2: Hazards identification**

**2.1 Classification of the substance or mixture**

Eye Irrit. 2 (H319)

**2.2 Label elements**



**Signal word:** Warning.

Contains EUH208: 1,2-benzisothiazol-3(2H)-one (Benzisothiazolinone)

**Hazard statements:**

H319 - Causes serious eye irritation.

EUH208 - May produce an allergic reaction.

**2.3 Other hazards**

No other hazards known

The product does not meet the criteria for PBT or vPvB in accordance with Regulation (EC) No 1907/2006, Annex XIII

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

**3.2 Mixtures**

| Ingredient(s)                   | EC number | CAS number | REACH number      | Classification   | Notes | Weight percent |
|---------------------------------|-----------|------------|-------------------|--|-------|----------------|
| calcium carbonate               | 207-439-9 | 471-34-1   | No data available | Not classified as hazardous  |       | 20-30          |
| sodium dodecylbenzenesulphonate | 246-680-4 | 25155-30-0 | 01-2119489428-22  | Acute Tox. 4 (H302)<br>Skin Irrit. 2 (H315)<br>Eye Dam. 1 (H318)<br>Aquatic Chronic 3 (H412) |       | 3-10           |
| sodium carbonate                | 207-838-8 | 497-19-8   | 01-2119485498-19  | Eye Irrit. 2 (H319)  |       | 1-3            |

|                              |           |            |                   |  |          |
|------------------------------|-----------|------------|-------------------|--|----------|
| Alcohol ethoxylates          | Polymer*  | 68131-39-5 | No data available | Acute Tox. 4 (H302)<br>Eye Dam. 1 (H318)<br>Aquatic Acute 1 (H400)<br>Aquatic Chronic 3 (H412)   | 1-3      |
| 1,2-benzisothiazol-3(2H)-one | 220-120-9 | 2634-33-5  | No data available | Acute Tox. 2 (H330)<br>Acute Tox. 4 (H302)<br>Skin Irrit. 2 (H315)<br>Eye Dam. 1 (H318)<br>Skin Sens. 1 (H317)<br>Aquatic Acute 1 (H400) | 0.01-0.1 |

\* Polymer.

Workplace exposure limit(s), if available, are listed in subsection 8.1.

[1] Exempted: ionic mixture. See Regulation (EC) No 1907/2006, Annex V, paragraph 3 and 4. This salt is potentially present, based on calculation, and included for classification and labelling purposes only. Each starting material of the ionic mixture is registered, as required.

[2] Exempted: included in Annex IV of Regulation (EC) No 1907/2006.

[3] Exempted: Annex V of Regulation (EC) No 1907/2006.

[4] Exempted: polymer. See Article 2(9) of Regulation (EC) No 1907/2006.

For the full text of the H and EUH phrases mentioned in this Section, see Section 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

|  |  |
|--|--|
| <b>Inhalation:</b>                     | Get medical attention or advice if you feel unwell.  |
| <b>Skin contact:</b>                   | Wash skin with plenty of lukewarm, gently flowing water. If skin irritation occurs: Get medical advice or attention.   |
| <b>Eye contact:</b>                    | Hold eyelids apart and flush eyes with plenty of lukewarm water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If irritation occurs and persists, get medical attention. |
| <b>Ingestion:</b>                      | Immediately drink 1 glass of water. Never give anything by mouth to an unconscious person. Get medical attention or advice if you feel unwell.   |
| <b>Self-protection of first aider:</b> | Consider personal protective equipment as indicated in subsection 8.2.   |

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

|                      |   |
|----------------------|---|
| <b>Inhalation:</b>   | No known effects or symptoms in normal use. |
| <b>Skin contact:</b> | No known effects or symptoms in normal use. |
| <b>Eye contact:</b>  | Causes severe irritation.                   |
| <b>Ingestion:</b>    | No known effects or symptoms in normal use. |

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

No information available on clinical testing and medical monitoring. Specific toxicological information on substances, if available, can be found in section 11.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Carbon dioxide. Dry powder. Water spray jet. Fight larger fires with water spray jet or alcohol-resistant foam.

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

No special hazards known.

### 5.3 Advice for firefighters

As in any fire, wear self contained breathing apparatus and suitable protective clothing including gloves and eye/face protection.

## SECTION 6: Accidental release measures

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

No special measures required.

### 6.2 Environmental precautions

Do not allow to enter drainage system, surface or ground water. Dilute with plenty of water.

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

Absorb with liquid-binding material (sand, diatomite, universal binders, sawdust).

### 6.4 Reference to other sections

For personal protective equipment see subsection 8.2. For disposal considerations see section 13.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

#### Measures to prevent fire and explosions:

No special precautions required.

**Measures required to protect the environment:**

For environmental exposure controls see subsection 8.2.

**Advices on general occupational hygiene:**

Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs. Do not mix with other products unless advised by Diversey. Wash hands before breaks and at the end of workday. Wash face, hands and any exposed skin thoroughly after handling. Take off immediately all contaminated clothing. Use personal protective equipment as required. Use only with adequate ventilation.

**7.2 Conditions for safe storage, including any incompatibilities**

Store in accordance with local and national regulations. Keep only in original container. Store in a closed container.

For conditions to avoid see subsection 10.4. For incompatible materials see subsection 10.5.

**7.3 Specific end use(s)**

No specific advice for end use available.

**SECTION 8: Exposure controls/personal protection****8.1 Control parameters****Workplace exposure limits**

Air limit values, if available:

| Ingredient(s)     | UK - Long term value(s)  | UK - Short term value(s)  |
|-------------------|--|---|
| calcium carbonate | 10 mg/m <sup>3</sup> inhalable dust<br>4 mg/m <sup>3</sup> respirable dust | 30 mg/m <sup>3</sup> inhalable dust<br>12 mg/m <sup>3</sup> respirable dust |

Biological limit values, if available:

Additional exposure limits under the conditions of use, if available:

**DNEL/DMEL and PNEC values****Human exposure**

DNEL oral exposure - Consumer (mg/kg bw)

| Ingredient(s)                   | Short term - Local effects | Short term - Systemic effects | Long term - Local effects | Long term - Systemic effects |
|---------------------------------|----------------------------|-------------------------------|---------------------------|------------------------------|
| calcium carbonate               | No data available          | No data available             | No data available         | No data available            |
| sodium dodecylbenzenesulphonate | No data available          | No data available             | No data available         | No data available            |
| sodium carbonate                | -                          | -                             | -                         | -                            |
| Alcohol ethoxylates             | No data available          | No data available             | No data available         | No data available            |
| 1,2-benzisothiazol-3(2H)-one    | -                          | -                             | -                         | -                            |

DNEL dermal exposure - Worker

| Ingredient(s)                   | Short term - Local effects | Short term - Systemic effects (mg/kg bw) | Long term - Local effects | Long term - Systemic effects (mg/kg bw) |
|---------------------------------|----------------------------|--|---------------------------|---|
| calcium carbonate               | No data available          | No data available                        | No data available         | No data available                       |
| sodium dodecylbenzenesulphonate | No data available          | No data available                        | No data available         | No data available                       |
| sodium carbonate                | No data available          | -  | No data available         | -                                       |
| Alcohol ethoxylates             | No data available          | No data available                        | No data available         | No data available                       |
| 1,2-benzisothiazol-3(2H)-one    | -                          | -  | -                         | -                                       |

DNEL dermal exposure - Consumer

| Ingredient(s)                   | Short term - Local effects | Short term - Systemic effects (mg/kg bw) | Long term - Local effects | Long term - Systemic effects (mg/kg bw) |
|---------------------------------|----------------------------|--|---------------------------|---|
| calcium carbonate               | No data available          | No data available                        | No data available         | No data available                       |
| sodium dodecylbenzenesulphonate | No data available          | No data available                        | No data available         | No data available                       |
| sodium carbonate                | No data available          | -  | No data available         | -                                       |
| Alcohol ethoxylates             | No data available          | No data available                        | No data available         | No data available                       |
| 1,2-benzisothiazol-3(2H)-one    | -                          | -  | -                         | -                                       |

DNEL inhalatory exposure - Worker (mg/m<sup>3</sup>)

| Ingredient(s)                   | Short term - Local effects | Short term - Systemic effects | Long term - Local effects | Long term - Systemic effects |
|---------------------------------|----------------------------|-------------------------------|---------------------------|------------------------------|
| calcium carbonate               | No data available          | No data available             | No data available         | No data available            |
| sodium dodecylbenzenesulphonate | No data available          | No data available             | No data available         | No data available            |
| sodium carbonate                | -                          | -                             | 10                        | -                            |
| Alcohol ethoxylates             | No data available          | No data available             | No data available         | No data available            |
| 1,2-benzisothiazol-3(2H)-one    | -                          | -                             | -                         | -                            |

DNEL inhalatory exposure - Consumer (mg/m<sup>3</sup>)

| Ingredient(s) | Short term - Local | Short term - Systemic | Long term - Local | Long term - Systemic |
|---------------|--------------------|-----------------------|-------------------|----------------------|
|               |                    |                       |                   |                      |

|                                 | effects           | effects           | effects           | effects           |
|---------------------------------|-------------------|-------------------|-------------------|-------------------|
| calcium carbonate               | No data available | No data available | No data available | No data available |
| sodium dodecylbenzenesulphonate | No data available | No data available | No data available | No data available |
| sodium carbonate                | 10                | -                 | -                 | -                 |
| Alcohol ethoxylates             | No data available | No data available | No data available | No data available |
| 1,2-benzisothiazol-3(2H)-one    | -                 | -                 | -                 | -                 |

**Environmental exposure**

Environmental exposure - PNEC

| Ingredient(s)                   | Surface water, fresh (mg/l) | Surface water, marine (mg/l) | Intermittent (mg/l) | Sewage treatment plant (mg/l) |
|---------------------------------|-----------------------------|------------------------------|---------------------|-------------------------------|
| calcium carbonate               | No data available           | No data available            | No data available   | No data available             |
| sodium dodecylbenzenesulphonate | No data available           | No data available            | No data available   | No data available             |
| sodium carbonate                | -                           | -                            | -                   | -                             |
| Alcohol ethoxylates             | No data available           | No data available            | No data available   | No data available             |
| 1,2-benzisothiazol-3(2H)-one    | -                           | -                            | -                   | -                             |

Environmental exposure - PNEC, continued

| Ingredient(s)                   | Sediment, freshwater (mg/kg) | Sediment, marine (mg/kg) | Soil (mg/kg)      | Air (mg/m <sup>3</sup> ) |
|---------------------------------|------------------------------|--------------------------|-------------------|--------------------------|
| calcium carbonate               | No data available            | No data available        | No data available | No data available        |
| sodium dodecylbenzenesulphonate | No data available            | No data available        | No data available | No data available        |
| sodium carbonate                | -                            | -                        | -                 | -                        |
| Alcohol ethoxylates             | No data available            | No data available        | No data available | No data available        |
| 1,2-benzisothiazol-3(2H)-one    | -                            | -                        | -                 | -                        |

**8.2 Exposure controls**

The following information applies for the uses indicated in subsection 1.2 of the Safety Data Sheet. If available, please refer to the product information sheet for application and handling instructions. Normal use conditions are assumed for this section.

Recommended safety measures for handling the undiluted product:

**Appropriate engineering controls:** Provide a good standard of general ventilation. No special requirements under normal use conditions.

**Appropriate organisational controls:** Avoid direct contact and/or splashes where possible. Train personnel.

**Personal protective equipment**

**Eye / face protection:** Safety glasses are not normally required. However, their use is recommended in those cases where splashes may occur when handling the product (EN 166).

**Hand protection:** Rinse and dry hands after use. For prolonged contact protection for the skin may be necessary.

**Body protection:** No special requirements under normal use conditions.

**Respiratory protection:** Respiratory protection is not normally required. However, inhalation of vapour, spray, gas or aerosols should be avoided.

**Environmental exposure controls:** No special requirements under normal use conditions.

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

Information in this section refers to the product, unless it is specifically stated that substance data is listed

|  | Method / remark |
|--|-----------------|
| <b>Physical State:</b> Liquid                            |                 |
| <b>Colour:</b> Milky, White                              |                 |
| <b>Odour:</b> Slightly perfumed                          |                 |
| <b>Odour threshold:</b> Not applicable                   |                 |
| <b>pH:</b> ≈ 11 (neat)                                   | ISO 4316        |
| <b>Dilution pH:</b> ≈ 11                                 | ISO 4316        |
| <b>Melting point/freezing point (°C):</b> Not determined | N.A.            |
| <b>Initial boiling point and boiling range (°C):</b> 999 | N.A.            |

Substance data, boiling point

| Ingredient(s)                   | Value (°C)        | Method           | Atmospheric pressure (hPa) |
|---------------------------------|-------------------|------------------|----------------------------|
| calcium carbonate               | No data available |                  |                            |
| sodium dodecylbenzenesulphonate | No data available |                  |                            |
| sodium carbonate                | 1600              | Method not given | 1013                       |
| Alcohol ethoxylates             | No data available |                  |                            |
| 1,2-benzisothiazol-3(2H)-one    | No data available |                  |                            |

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**Flash point (°C):** Not applicable.  
**Sustained combustion:** Not applicable.  
 ( UN Manual of Tests and Criteria, section 32, L.2 )  
**Evaporation rate:** Not relevant for classification of this product.  
**Flammability (solid, gas):** Not applicable to liquids  
**Upper/lower flammability limit (%):** Not determined

Method / remark

N.A

Substance data, flammability or explosive limits, if available:

**Vapour pressure:** See substance data.

Method / remark

N.A.

Substance data, vapour pressure

| Ingredient(s)                   | Value (Pa)        | Method | Temperature (°C) |
|---------------------------------|-------------------|--------|------------------|
| calcium carbonate               | No data available |        |                  |
| sodium dodecylbenzenesulphonate | No data available |        |                  |
| sodium carbonate                | Negligible        |        |                  |
| Alcohol ethoxylates             | No data available |        |                  |
| 1,2-benzisothiazol-3(2H)-one    | No data available |        |                  |

Method / remark

**Vapour density:** Not applicable, no vapour pressure data available.  
**Relative density:** ≈ 1.20 (20 °C)  
**Solubility in / Miscibility with Water:** Fully miscible

N.A

OECD 109 (EU A.3)

Substance data, solubility in water

| Ingredient(s)                   | Value (g/l)       | Method           | Temperature (°C) |
|---------------------------------|-------------------|------------------|------------------|
| calcium carbonate               | No data available |                  |                  |
| sodium dodecylbenzenesulphonate | No data available |                  |                  |
| sodium carbonate                | 210-215           | Method not given | 20               |
| Alcohol ethoxylates             | No data available |                  |                  |
| 1,2-benzisothiazol-3(2H)-one    | No data available |                  |                  |

Substance data, partition coefficient n-octanol/water (log Kow): see subsection 12.3

**Autoignition temperature:** Not determined  
**Decomposition temperature:** 999  
**Viscosity:** ≈ 600 mPa.s (20 °C)  
**Explosive properties:** Not explosive.  
**Oxidising properties:** Not oxidising.

Method / remark

N.A

DM-006 Viscosity - Additional

N.A

N.A.

**9.2 Other information**

**Surface tension (N/m):** Not determined  
**Corrosion to metals:** Not corrosive

OECD 115

N.A.

Substance data, dissociation constant, if available:

**SECTION 10: Stability and reactivity****10.1 Reactivity**

No reactivity hazards known under normal storage and use conditions.

**10.2 Chemical stability**

Stable under normal storage and use conditions.

**10.3 Possibility of hazardous reactions**

No hazardous reactions known under normal storage and use conditions.

**10.4 Conditions to avoid**

None known under normal storage and use conditions.

**10.5 Incompatible materials**

Reacts with acids.

**10.6 Hazardous decomposition products**

None known under normal storage and use conditions.

**SECTION 11: Toxicological information**

### 11.1 Information on toxicological effects

Mixture data:

#### Relevant calculated ATE(s):

ATE - Oral (mg/kg): >5000

#### Eye irritation and corrosivity

**Result:** Eye irritant 2

**Method:** Weight of evidence

Substance data, where relevant and available, are listed below:

#### Acute toxicity

##### Acute oral toxicity

| Ingredient(s)                   | Endpoint         | Value (mg/kg)     | Species | Method           | Exposure time (h) |
|---------------------------------|------------------|-------------------|---------|------------------|-------------------|
| calcium carbonate               |                  | No data available |         |                  |                   |
| sodium dodecylbenzenesulphonate |                  | No data available |         |                  |                   |
| sodium carbonate                | LD <sub>50</sub> | 2800              | Rat     | Method not given |                   |
| Alcohol ethoxylates             |                  | No data available |         |                  |                   |
| 1,2-benzisothiazol-3(2H)-one    | LD <sub>50</sub> | > 2000            | Rat     |                  |                   |

##### Acute dermal toxicity

| Ingredient(s)                   | Endpoint         | Value (mg/kg)     | Species | Method            | Exposure time (h) |
|---------------------------------|------------------|-------------------|---------|-------------------|-------------------|
| calcium carbonate               |                  | No data available |         |                   |                   |
| sodium dodecylbenzenesulphonate |                  | No data available |         |                   |                   |
| sodium carbonate                | LD <sub>50</sub> | > 2000            | Rabbit  | Method not given  |                   |
| Alcohol ethoxylates             |                  | No data available |         |                   |                   |
| 1,2-benzisothiazol-3(2H)-one    | LD <sub>50</sub> | > 2000            | Rat     | OECD 402 (EU B.3) |                   |

##### Acute inhalative toxicity

| Ingredient(s)                   | Endpoint         | Value (mg/l)      | Species | Method            | Exposure time (h) |
|---------------------------------|------------------|-------------------|---------|-------------------|-------------------|
| calcium carbonate               |                  | No data available |         |                   |                   |
| sodium dodecylbenzenesulphonate |                  | No data available |         |                   |                   |
| sodium carbonate                | LC <sub>50</sub> | 2.3 (dust)        | Rat     | OECD 403 (EU B.2) | 2                 |
| Alcohol ethoxylates             |                  | No data available |         |                   |                   |
| 1,2-benzisothiazol-3(2H)-one    |                  | No data available |         |                   |                   |

#### Irritation and corrosivity

##### Skin irritation and corrosivity

| Ingredient(s)                   | Result            | Species | Method           | Exposure time |
|---------------------------------|-------------------|---------|------------------|---------------|
| calcium carbonate               | No data available |         |                  |               |
| sodium dodecylbenzenesulphonate | No data available |         |                  |               |
| sodium carbonate                | Not irritant      | Rabbit  | Method not given |               |
| Alcohol ethoxylates             | No data available |         |                  |               |
| 1,2-benzisothiazol-3(2H)-one    | Corrosive         |         |                  |               |

##### Eye irritation and corrosivity

| Ingredient(s)                   | Result            | Species | Method           | Exposure time |
|---------------------------------|-------------------|---------|------------------|---------------|
| calcium carbonate               | No data available |         |                  |               |
| sodium dodecylbenzenesulphonate | No data available |         |                  |               |
| sodium carbonate                | Irritant          | Rabbit  | Method not given |               |
| Alcohol ethoxylates             | No data available |         |                  |               |
| 1,2-benzisothiazol-3(2H)-one    | No data available |         |                  |               |

##### Respiratory tract irritation and corrosivity

| Ingredient(s)                   | Result            | Species | Method | Exposure time |
|---------------------------------|-------------------|---------|--------|---------------|
| calcium carbonate               | No data available |         |        |               |
| sodium dodecylbenzenesulphonate | No data available |         |        |               |
| sodium carbonate                | No data available |         |        |               |

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|                              |                   |  |  |  |
|------------------------------|-------------------|--|--|--|
| Alcohol ethoxylates          | No data available |  |  |  |
| 1,2-benzisothiazol-3(2H)-one | No data available |  |  |  |

**Sensitisation**

Sensitisation by skin contact

| Ingredient(s)                   | Result            | Species    | Method           | Exposure time (h) |
|---------------------------------|-------------------|------------|------------------|-------------------|
| calcium carbonate               | No data available |            |                  |                   |
| sodium dodecylbenzenesulphonate | No data available |            |                  |                   |
| sodium carbonate                | Not sensitising   |            | Method not given |                   |
| Alcohol ethoxylates             | No data available |            |                  |                   |
| 1,2-benzisothiazol-3(2H)-one    | Sensitising       | Guinea pig |                  |                   |

Sensitisation by inhalation

| Ingredient(s)                   | Result            | Species | Method | Exposure time |
|---------------------------------|-------------------|---------|--------|---------------|
| calcium carbonate               | No data available |         |        |               |
| sodium dodecylbenzenesulphonate | No data available |         |        |               |
| sodium carbonate                | No data available |         |        |               |
| Alcohol ethoxylates             | No data available |         |        |               |
| 1,2-benzisothiazol-3(2H)-one    | No data available |         |        |               |

**CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**

Mutagenicity

| Ingredient(s)                   | Result (in-vitro)                                   | Method (in-vitro)     | Result (in-vivo)  | Method (in-vivo) |
|---------------------------------|---|-----------------------|-------------------|------------------|
| calcium carbonate               | No data available                                   |                       | No data available |                  |
| sodium dodecylbenzenesulphonate | No data available                                   |                       | No data available |                  |
| sodium carbonate                | No data available                                   |                       | No data available |                  |
| Alcohol ethoxylates             | No data available                                   |                       | No data available |                  |
| 1,2-benzisothiazol-3(2H)-one    | No evidence for mutagenicity, negative test results | OECD 471 (EU B.12/13) | No data available |                  |

Carcinogenicity

| Ingredient(s)                   | Effect  |
|---------------------------------|---|
| calcium carbonate               | No data available                                   |
| sodium dodecylbenzenesulphonate | No data available                                   |
| sodium carbonate                | No evidence for carcinogenicity, weight-of-evidence |
| Alcohol ethoxylates             | No data available                                   |
| 1,2-benzisothiazol-3(2H)-one    | No data available                                   |

Toxicity for reproduction

| Ingredient(s)                   | Endpoint | Specific effect | Value (mg/kg bw/d) | Species | Method | Exposure time | Remarks and other effects reported |
|---------------------------------|----------|-----------------|--------------------|---------|--------|---------------|------------------------------------|
| calcium carbonate               |          |                 | No data available  |         |        |               |                                    |
| sodium dodecylbenzenesulphonate |          |                 | No data available  |         |        |               |                                    |
| sodium carbonate                |          |                 | No data available  |         |        |               |                                    |
| Alcohol ethoxylates             |          |                 | No data available  |         |        |               |                                    |
| 1,2-benzisothiazol-3(2H)-one    |          |                 | No data available  |         |        |               |                                    |

**Repeated dose toxicity**

Sub-acute or sub-chronic oral toxicity

| Ingredient(s)                   | Endpoint | Value (mg/kg bw/d) | Species | Method | Exposure time (days) | Specific effects and organs affected |
|---------------------------------|----------|--------------------|---------|--------|----------------------|--------------------------------------|
| calcium carbonate               |          | No data available  |         |        |                      |                                      |
| sodium dodecylbenzenesulphonate |          | No data available  |         |        |                      |                                      |
| sodium carbonate                |          | No data available  |         |        |                      |                                      |
| Alcohol ethoxylates             |          | No data available  |         |        |                      |                                      |
| 1,2-benzisothiazol-3(2H)-one    |          | No data available  |         |        |                      |                                      |

Sub-chronic dermal toxicity

| Ingredient(s)                   | Endpoint | Value (mg/kg bw/d) | Species | Method | Exposure time (days) | Specific effects and organs affected |
|---------------------------------|----------|--------------------|---------|--------|----------------------|--------------------------------------|
| calcium carbonate               |          | No data available  |         |        |                      |                                      |
| sodium dodecylbenzenesulphonate |          | No data available  |         |        |                      |                                      |

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|                              |  |                   |  |  |  |  |
|------------------------------|--|-------------------|--|--|--|--|
|                              |  | available         |  |  |  |  |
| sodium carbonate             |  | No data available |  |  |  |  |
| Alcohol ethoxylates          |  | No data available |  |  |  |  |
| 1,2-benzisothiazol-3(2H)-one |  | No data available |  |  |  |  |

## Sub-chronic inhalation toxicity

| Ingredient(s)                   | Endpoint | Value (mg/kg bw/d) | Species | Method | Exposure time (days) | Specific effects and organs affected |
|---------------------------------|----------|--------------------|---------|--------|----------------------|--------------------------------------|
| calcium carbonate               |          | No data available  |         |        |                      |                                      |
| sodium dodecylbenzenesulphonate |          | No data available  |         |        |                      |                                      |
| sodium carbonate                |          | No data available  |         |        |                      |                                      |
| Alcohol ethoxylates             |          | No data available  |         |        |                      |                                      |
| 1,2-benzisothiazol-3(2H)-one    |          | No data available  |         |        |                      |                                      |

## Chronic toxicity

| Ingredient(s)                   | Exposure route | Endpoint | Value (mg/kg bw/d) | Species | Method | Exposure time | Specific effects and organs affected | Remark |
|---------------------------------|----------------|----------|--------------------|---------|--------|---------------|--------------------------------------|--------|
| calcium carbonate               |                |          | No data available  |         |        |               |                                      |        |
| sodium dodecylbenzenesulphonate |                |          | No data available  |         |        |               |                                      |        |
| sodium carbonate                |                |          | No data available  |         |        |               |                                      |        |
| Alcohol ethoxylates             |                |          | No data available  |         |        |               |                                      |        |
| 1,2-benzisothiazol-3(2H)-one    |                |          | No data available  |         |        |               |                                      |        |

## STOT-single exposure

| Ingredient(s)                   | Affected organ(s) |
|---------------------------------|-------------------|
| calcium carbonate               | No data available |
| sodium dodecylbenzenesulphonate | No data available |
| sodium carbonate                | No data available |
| Alcohol ethoxylates             | No data available |
| 1,2-benzisothiazol-3(2H)-one    | No data available |

## STOT-repeated exposure

| Ingredient(s)                   | Affected organ(s) |
|---------------------------------|-------------------|
| calcium carbonate               | No data available |
| sodium dodecylbenzenesulphonate | No data available |
| sodium carbonate                | No data available |
| Alcohol ethoxylates             | No data available |
| 1,2-benzisothiazol-3(2H)-one    | No data available |

## Aspiration hazard

Substances with an aspiration hazard (H304), if any, are listed in section 3. If relevant, see section 9 for dynamic viscosity and relative density of the product.

## Potential adverse health effects and symptoms

Effects and symptoms related to the product, if any, are listed in subsection 4.2.

## SECTION 12: Ecological information

### 12.1 Toxicity

No data is available on the mixture.

Substance data, where relevant and available, are listed below:

#### Aquatic short-term toxicity

Aquatic short-term toxicity - fish

| Ingredient(s)                   | Endpoint         | Value (mg/l)      | Species        | Method           | Exposure time (h) |
|---------------------------------|------------------|-------------------|----------------|------------------|-------------------|
| calcium carbonate               |                  | No data available |                |                  |                   |
| sodium dodecylbenzenesulphonate |                  | No data available |                |                  |                   |
| sodium carbonate                | LC <sub>50</sub> | 300               | <i>Lepomis</i> | Method not given | 96                |



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|                              |  |                   |                    |  |  |
|------------------------------|--|-------------------|--------------------|--|--|
|                              |  |                   | <i>macrochirus</i> |  |  |
| Alcohol ethoxylates          |  | No data available |                    |  |  |
| 1,2-benzisothiazol-3(2H)-one |  | No data available |                    |  |  |

## Aquatic short-term toxicity - crustacea

| Ingredient(s)                   | Endpoint         | Value (mg/l)      | Species                     | Method           | Exposure time (h) |
|---------------------------------|------------------|-------------------|-----------------------------|------------------|-------------------|
| calcium carbonate               |                  | No data available |                             |                  |                   |
| sodium dodecylbenzenesulphonate |                  | No data available |                             |                  |                   |
| sodium carbonate                | EC <sub>50</sub> | 265               | <i>Daphnia magna Straus</i> | Method not given | 96                |
| Alcohol ethoxylates             |                  | No data available |                             |                  |                   |
| 1,2-benzisothiazol-3(2H)-one    |                  | No data available |                             |                  |                   |

## Aquatic short-term toxicity - algae

| Ingredient(s)                   | Endpoint | Value (mg/l)      | Species | Method | Exposure time (h) |
|---------------------------------|----------|-------------------|---------|--------|-------------------|
| calcium carbonate               |          | No data available |         |        |                   |
| sodium dodecylbenzenesulphonate |          | No data available |         |        |                   |
| sodium carbonate                |          | No data available |         |        | -                 |
| Alcohol ethoxylates             |          | No data available |         |        |                   |
| 1,2-benzisothiazol-3(2H)-one    |          | No data available |         |        |                   |

## Aquatic short-term toxicity - marine species

| Ingredient(s)                   | Endpoint | Value (mg/l)      | Species | Method | Exposure time (days) |
|---------------------------------|----------|-------------------|---------|--------|----------------------|
| calcium carbonate               |          | No data available |         |        |                      |
| sodium dodecylbenzenesulphonate |          | No data available |         |        |                      |
| sodium carbonate                |          | No data available |         |        | -                    |
| Alcohol ethoxylates             |          | No data available |         |        |                      |
| 1,2-benzisothiazol-3(2H)-one    |          | No data available |         |        |                      |

## Impact on sewage plants - toxicity to bacteria

| Ingredient(s)                   | Endpoint         | Value (mg/l)      | Inoculum                | Method   | Exposure time |
|---------------------------------|------------------|-------------------|-------------------------|----------|---------------|
| calcium carbonate               |                  | No data available |                         |          |               |
| sodium dodecylbenzenesulphonate |                  | No data available |                         |          |               |
| sodium carbonate                |                  | No data available |                         |          |               |
| Alcohol ethoxylates             |                  | No data available |                         |          |               |
| 1,2-benzisothiazol-3(2H)-one    | EC <sub>20</sub> | 3.3               | <i>Activated sludge</i> | OECD 209 | 3 hour(s)     |

## Aquatic long-term toxicity

## Aquatic long-term toxicity - fish

| Ingredient(s)                   | Endpoint | Value (mg/l)      | Species | Method | Exposure time | Effects observed |
|---------------------------------|----------|-------------------|---------|--------|---------------|------------------|
| calcium carbonate               |          | No data available |         |        |               |                  |
| sodium dodecylbenzenesulphonate |          | No data available |         |        |               |                  |
| sodium carbonate                |          | No data available |         |        |               |                  |
| Alcohol ethoxylates             |          | No data available |         |        |               |                  |
| 1,2-benzisothiazol-3(2H)-one    |          | No data available |         |        |               |                  |

## Aquatic long-term toxicity - crustacea

| Ingredient(s)     | Endpoint | Value (mg/l) | Species | Method | Exposure time | Effects observed |
|-------------------|----------|--------------|---------|--------|---------------|------------------|
| calcium carbonate |          | No data      |         |        |               |                  |

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|                                 |  |                   |  |  |  |  |
|---------------------------------|--|-------------------|--|--|--|--|
|                                 |  | available         |  |  |  |  |
| sodium dodecylbenzenesulphonate |  | No data available |  |  |  |  |
| sodium carbonate                |  | No data available |  |  |  |  |
| Alcohol ethoxylates             |  | No data available |  |  |  |  |
| 1,2-benzisothiazol-3(2H)-one    |  | No data available |  |  |  |  |

Aquatic toxicity to other aquatic benthic organisms, including sediment-dwelling organisms, if available:

| Ingredient(s)                   | Endpoint | Value (mg/kg dw sediment) | Species | Method | Exposure time (days) | Effects observed |
|---------------------------------|----------|---------------------------|---------|--------|----------------------|------------------|
| calcium carbonate               |          | No data available         |         |        |                      |                  |
| sodium dodecylbenzenesulphonate |          | No data available         |         |        |                      |                  |
| sodium carbonate                |          | No data available         |         |        | -                    |                  |
| Alcohol ethoxylates             |          | No data available         |         |        |                      |                  |
| 1,2-benzisothiazol-3(2H)-one    |          | No data available         |         |        |                      |                  |

### Terrestrial toxicity

Terrestrial toxicity - soil invertebrates, including earthworms, if available:

| Ingredient(s)    | Endpoint | Value (mg/kg dw soil) | Species | Method | Exposure time (days) | Effects observed |
|------------------|----------|-----------------------|---------|--------|----------------------|------------------|
| sodium carbonate |          | No data available     |         |        | -                    |                  |

Terrestrial toxicity - plants, if available:

| Ingredient(s)    | Endpoint | Value (mg/kg dw soil) | Species | Method | Exposure time (days) | Effects observed |
|------------------|----------|-----------------------|---------|--------|----------------------|------------------|
| sodium carbonate |          | No data available     |         |        | -                    |                  |

Terrestrial toxicity - birds, if available:

| Ingredient(s)    | Endpoint | Value             | Species | Method | Exposure time (days) | Effects observed |
|------------------|----------|-------------------|---------|--------|----------------------|------------------|
| sodium carbonate |          | No data available |         |        | -                    |                  |

Terrestrial toxicity - beneficial insects, if available:

| Ingredient(s)    | Endpoint | Value (mg/kg dw soil) | Species | Method | Exposure time (days) | Effects observed |
|------------------|----------|-----------------------|---------|--------|----------------------|------------------|
| sodium carbonate |          | No data available     |         |        | -                    |                  |

Terrestrial toxicity - soil bacteria, if available:

| Ingredient(s)    | Endpoint | Value (mg/kg dw soil) | Species | Method | Exposure time (days) | Effects observed |
|------------------|----------|-----------------------|---------|--------|----------------------|------------------|
| sodium carbonate |          | No data available     |         |        | -                    |                  |

## 12.2 Persistence and degradability

### Abiotic degradation

Abiotic degradation - photodegradation in air, if available:

Abiotic degradation - hydrolysis, if available:

| Ingredient(s)    | Half-life time in fresh water | Method | Evaluation           | Remark |
|------------------|-------------------------------|--------|----------------------|--------|
| sodium carbonate | No data available             |        | Rapidly hydrolysible |        |

Abiotic degradation - other processes, if available:

### Biodegradation

Ready biodegradability - aerobic conditions

| Ingredient(s)                   | Inoculum | Analytical method | DT <sub>50</sub> | Method    | Evaluation                           |
|---------------------------------|----------|-------------------|------------------|-----------|--------------------------------------|
| calcium carbonate               |          |                   |                  |           | Not applicable (inorganic substance) |
| sodium dodecylbenzenesulphonate |          |                   |                  | OECD 301E | Readily biodegradable                |
| sodium carbonate                |          |                   |                  |           | Not applicable (inorganic substance) |

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|                              |  |  |  |                    |                            |
|------------------------------|--|--|--|--------------------|----------------------------|
| Alcohol ethoxylates          |  |  |  | OECD 301B          | Readily biodegradable      |
| 1,2-benzisothiazol-3(2H)-one |  |  |  | Weight of evidence | Not readily biodegradable. |

Ready biodegradability - anaerobic and marine conditions, if available:

Degradation in relevant environmental compartments, if available:

| Ingredient(s)                | Medium & Type                     | Analytical method   | DT <sub>50</sub> | Method    | Evaluation    |
|------------------------------|-----------------------------------|---------------------|------------------|-----------|---------------|
| 1,2-benzisothiazol-3(2H)-one | Sewage treatment plant simulation | Primary degradation | > 90%            | OECD 303A | Biodegradable |

### 12.3 Bioaccumulative potential

Partition coefficient n-octanol/water (log Kow)

| Ingredient(s)                   | Value             | Method   | Evaluation                  | Remark |
|---------------------------------|-------------------|----------|-----------------------------|--------|
| calcium carbonate               | No data available |          |                             |        |
| sodium dodecylbenzenesulphonate | No data available |          |                             |        |
| sodium carbonate                | No data available |          | No bioaccumulation expected |        |
| Alcohol ethoxylates             | No data available |          |                             |        |
| 1,2-benzisothiazol-3(2H)-one    | 0.7               | OECD 107 | No bioaccumulation expected |        |

Bioconcentration factor (BCF)

| Ingredient(s)                   | Value             | Species | Method   | Evaluation                  | Remark |
|---------------------------------|-------------------|---------|----------|-----------------------------|--------|
| calcium carbonate               | No data available |         |          |                             |        |
| sodium dodecylbenzenesulphonate | No data available |         |          |                             |        |
| sodium carbonate                | No data available |         |          | No bioaccumulation expected |        |
| Alcohol ethoxylates             | No data available |         |          |                             |        |
| 1,2-benzisothiazol-3(2H)-one    | 6.95              |         | OECD 305 |                             |        |

### 12.4 Mobility in soil

Adsorption/Desorption to soil or sediment

| Ingredient(s)                   | Adsorption coefficient Log K <sub>oc</sub> | Desorption coefficient Log K <sub>oc</sub> (des) | Method | Soil/sediment type | Evaluation                                       |
|---------------------------------|--|--|--------|--------------------|--|
| calcium carbonate               | No data available                          |  |        |                    |  |
| sodium dodecylbenzenesulphonate | No data available                          |  |        |                    |  |
| sodium carbonate                | No data available                          |  |        |                    | Potential for mobility in soil, soluble in water |
| Alcohol ethoxylates             | No data available                          |  |        |                    |  |
| 1,2-benzisothiazol-3(2H)-one    | No data available                          |  |        |                    |  |

### 12.5 Results of PBT and vPvB assessment

Substances that fulfill the criteria for PBT/vPvB, if any, are listed in section 3.

### 12.6 Other adverse effects

No other adverse effects known.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

**Waste from residues / unused products:**

The concentrated contents or contaminated packaging should be disposed of by a certified handler or according to the site permit. Release of waste to sewers is discouraged. The cleaned packaging material is suitable for energy recovery or recycling in line with local legislation.  
20 01 29\* - detergents containing dangerous substances.

**European Waste Catalogue:**

**Empty packaging**

**Recommendation:**

Dispose of observing national or local regulations.

**Suitable cleaning agents:**

Water, if necessary with cleaning agent.

## SECTION 14: Transport information

**Land transport (ADR/RID), Sea transport (IMDG), Air transport (ICAO-TI / IATA-DGR)**

14.1 UN number: Non-dangerous goods

14.2 UN proper shipping name: Non-dangerous goods

14.3 Transport hazard class(es): Non-dangerous goods

Class: -

14.4 Packing group: Non-dangerous goods

14.5 Environmental hazards: Non-dangerous goods

14.6 Special precautions for user: Non-dangerous goods

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code: Non-dangerous goods

**SECTION 15: Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulations:**

- Regulation (EC) No. 1907/2006 - REACH
- Regulation (EC) No 1272/2008 - CLP
- Regulation (EC) No. 648/2004 - Detergents regulation

**Authorisations or restrictions (Regulation (EC) No 1907/2006, Title VII respectively Title VIII):** Not applicable.

**Ingredients according to EC Detergents Regulation 648/2004**

anionic surfactants, non-ionic surfactants, soap < 5 %  
perfumes, Limonene, Benzisothiazolinone, Linalool, Butylphenyl Methylpropional, Hexyl Cinnamal

The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No. 648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

**15.2 Chemical safety assessment**

A chemical safety assessment has not been carried out on the mixture

**SECTION 16: Other information**

*The information in this document is based on our best present knowledge. However, it does not constitute a guarantee for any specific product features and does not establish a legally binding contract*

**SDS code:** MSDS4973

**Version:** 05.3

**Revision:** 2017-09-09

**Reason for revision:**

This data sheet contains changes from the previous version in section(s):, 2, 3, 16

**Classification procedure**

The classification of the mixture is in general based on calculation methods using substance data, as required by Regulation (EC) No 1272/2008. If for certain classifications data on the mixture is available or for example bridging principles or weight of evidence can be used for classification, this will be indicated in the relevant sections of the Safety Data Sheet. See section 9 for physical chemical properties, section 11 for toxicological information and section 12 for ecological information.

**Full text of the H and EUH phrases mentioned in section 3:**

- H302 - Harmful if swallowed.
- H315 - Causes skin irritation.
- 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.
- H412 - Harmful to aquatic life with long lasting effects.

**Abbreviations and acronyms:**

- AISE - The international Association for Soaps, Detergents and Maintenance Products
- DNEL - Derived No Effect Limit
- EUH - CLP Specific hazard statement
- PBT - Persistent, Bioaccumulative and Toxic
- PNEC - Predicted No Effect Concentration
- REACH number - REACH registration number, without supplier specific part
- vPvB - very Persistent and very Bioaccumulative
- ATE - Acute Toxicity Estimate

**End of Safety Data Sheet**