



**Persil Professional Concentrated Performance Biological Liquid**

Revision: 2018-11-04

Version: 13.0

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

**1.1 Product identifier**

**Trade name:** Persil Professional Concentrated Performance Biological Liquid  
*Persil is a registered trade mark and is used under licence of Unilever*

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

**Identified uses:**

AISE-P102 - Laundry detergent. Semi-automatic process  
AISE-P103 - Laundry detergent. Manual process  
AISE-C1 - Laundry regular (powder, liquid) for consumer use

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

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

Diversey Europe Operations BV, Maarssebroeksedijk 2, 3542DN Utrecht, The Netherlands

**Contact details**

Unilever UK Ltd., Freepost ADM1000, London SW1A 2XX  
Tel: 0800 776647

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 1,2-benzisothiazol-3(2H)-one (Benzisothiazolinone), 2-methyl-2H-isothiazol-3-one (Methylisothiazolinone), 3(2H)-Isothiazolone, 2-octyl- (Octylisothiazolinone)

**Hazard statements:**

H319 - Causes serious eye irritation.  
EUH208 - May produce an allergic reaction.

**Precautionary statements:**

P101 - If medical advice is needed, have product container or label at hand.  
P102 - Keep out of reach of children.

**Further indications on the label:**

Contains: preservative.

**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.

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**SECTION 3: Composition/information on ingredients****3.2 Mixtures**

| Ingredient(s)                               | EC number | CAS number | REACH number | Classification   | Notes | Weight percent |
|---|-----------|------------|--------------|--|-------|----------------|
| alkyl alcohol ethoxylate                    | 500-195-7 | 68131-39-5 | -            | Acute Tox. 4 (H302)<br>Eye Dam. 1 (H318)<br>Aquatic Acute 1 (H400)<br>Aquatic Chronic 2 (H411)   |       | 3-10           |
| sodium dodecylbenzenesulphonate             | 246-680-4 | 25155-30-0 | [1]          | Acute Tox. 4 (H302)<br>Skin Irrit. 2 (H315)<br>Eye Dam. 1 (H318)<br>Aquatic Chronic 3 (H412)   |       | 3-10           |
| sodium 2-(2-dodecyloxyethoxy)ethyl sulphate | 221-416-0 | 3088-31-1  | -            | Skin Irrit. 2 (H315)<br>Eye Dam. 1 (H318)<br>Aquatic Chronic 3 (H412)  |       | 1-3            |
| 1,2-benzisothiazol-3(2H)-one                | 220-120-9 | 2634-33-5  | -            | 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)<br>Aquatic Chronic 2 (H411)                         |       | 0.01-0.1       |
| 2-methyl-2H-isothiazol-3-one                | 220-239-6 | 2682-20-4  | -            | Acute Tox. 2 (H330)<br>Acute Tox. 3 (H301)<br>Skin Corr. 1B (H314)<br>Skin Sens. 1A (H317)<br>Aquatic Acute 1 (H400)<br>Aquatic Chronic 2 (H411)   |       | 0.01-0.1       |
| 3(2H)-Isothiazolone, 2-octyl-               | 247-761-7 | 26530-20-1 | -            | Acute Tox. 3 (H311)<br>Acute Tox. 3 (H331)<br>Skin Corr. 1B (H314)<br>Acute Tox. 4 (H302)<br>Eye Dam. 1 (H318)<br>Skin Sens. 1A (H317)<br>Aquatic Acute 1 (H400)<br>Aquatic Chronic 1 (H410) |       | 0.01-0.1       |

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>                      | Rinse mouth. 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.

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**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. Keep out of reach of children. 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. Use only with adequate ventilation. See chapter 8.2, Exposure controls / Personal protection.

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

Store in accordance with local and national regulations. Store in a closed container. Keep only in original packaging. Keep out of reach of children.

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:

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 |
|---|----------------------------|-------------------------------|---------------------------|------------------------------|
| alkyl alcohol ethoxylate                    | No data available          | No data available             | No data available         | No data available            |
| sodium dodecylbenzenesulphonate             | No data available          | No data available             | No data available         | 13                           |
| sodium 2-(2-dodecyloxyethoxy)ethyl sulphate | No data available          | No data available             | No data available         | No data available            |
| 1,2-benzisothiazol-3(2H)-one                | -                          | -                             | -                         | -                            |
| 2-methyl-2H-isothiazol-3-one                | -                          | -                             | -                         | -                            |
| 3(2H)-Isothiazolone, 2-octyl-               | No data available          | No data available             | No data available         | No data available            |

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) |
|---------------------------------|----------------------------|--|---------------------------|---|
| alkyl alcohol ethoxylate        | 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                       |

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|---|-------------------|-------------------|-------------------|-------------------|
| sodium 2-(2-dodecyloxyethoxy)ethyl sulphate | No data available | No data available | No data available | No data available |
| 1,2-benzisothiazol-3(2H)-one                | -                 | -                 | -                 | -                 |
| 2-methyl-2H-isothiazol-3-one                | -                 | -                 | -                 | -                 |
| 3(2H)-Isothiazolone, 2-octyl-               | No data available | No data available | No data available | No data available |

## 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) |
|---|----------------------------|--|---------------------------|---|
| alkyl alcohol ethoxylate                    | 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 2-(2-dodecyloxyethoxy)ethyl sulphate | No data available          | No data available                        | No data available         | No data available                       |
| 1,2-benzisothiazol-3(2H)-one                | -                          | -  | -                         | -                                       |
| 2-methyl-2H-isothiazol-3-one                | -                          | -  | -                         | -                                       |
| 3(2H)-Isothiazolone, 2-octyl-               | No data available          | No data available                        | No data available         | No data available                       |

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 |
|---|----------------------------|-------------------------------|---------------------------|------------------------------|
| alkyl alcohol ethoxylate                    | No data available          | No data available             | No data available         | No data available            |
| sodium dodecylbenzenesulphonate             | No data available          | No data available             | No data available         | 52                           |
| sodium 2-(2-dodecyloxyethoxy)ethyl sulphate | No data available          | No data available             | No data available         | No data available            |
| 1,2-benzisothiazol-3(2H)-one                | -                          | -                             | -                         | -                            |
| 2-methyl-2H-isothiazol-3-one                | -                          | -                             | -                         | -                            |
| 3(2H)-Isothiazolone, 2-octyl-               | No data available          | No data available             | No data available         | No data available            |

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

| Ingredient(s)                               | Short term - Local effects | Short term - Systemic effects | Long term - Local effects | Long term - Systemic effects |
|---|----------------------------|-------------------------------|---------------------------|------------------------------|
| alkyl alcohol ethoxylate                    | 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 2-(2-dodecyloxyethoxy)ethyl sulphate | No data available          | No data available             | No data available         | No data available            |
| 1,2-benzisothiazol-3(2H)-one                | -                          | -                             | -                         | -                            |
| 2-methyl-2H-isothiazol-3-one                | -                          | -                             | -                         | -                            |
| 3(2H)-Isothiazolone, 2-octyl-               | No data available          | No data available             | No data available         | No data available            |

## 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) |
|---|-----------------------------|------------------------------|---------------------|-------------------------------|
| alkyl alcohol ethoxylate                    | 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 2-(2-dodecyloxyethoxy)ethyl sulphate | No data available           | No data available            | No data available   | No data available             |
| 1,2-benzisothiazol-3(2H)-one                | -                           | -                            | -                   | -                             |
| 2-methyl-2H-isothiazol-3-one                | -                           | -                            | -                   | -                             |
| 3(2H)-Isothiazolone, 2-octyl-               | No data available           | No data available            | No data available   | No data available             |

## Environmental exposure - PNEC, continued

| Ingredient(s)                               | Sediment, freshwater (mg/kg) | Sediment, marine (mg/kg) | Soil (mg/kg)      | Air (mg/m <sup>3</sup> ) |
|---|------------------------------|--------------------------|-------------------|--------------------------|
| alkyl alcohol ethoxylate                    | 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 2-(2-dodecyloxyethoxy)ethyl sulphate | No data available            | No data available        | No data available | No data available        |
| 1,2-benzisothiazol-3(2H)-one                | -                            | -                        | -                 | -                        |
| 2-methyl-2H-isothiazol-3-one                | -                            | -                        | -                 | -                        |
| 3(2H)-Isothiazolone, 2-octyl-               | No data available            | No data available        | No data available | No data available        |

## 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:

Covering activities such as filling and transfer of product to application equipment, flasks or buckets

**Appropriate engineering controls:** 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.

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

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

*Recommended safety measures for handling the diluted product:*

**Recommended maximum concentration (%):** 18.75

**Appropriate engineering controls:** 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:** No special requirements under normal use conditions.

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

**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> Clear, Green   |  |
| <b>Odour:</b> Slightly perfumed                                     |  |
| <b>Odour threshold:</b> Not applicable                              |  |
| <b>pH:</b> > 8 (neat)   | ISO 4316                                       |
| <b>Melting point/freezing point (°C):</b> Not determined            | Not relevant to classification of this product |
| <b>Initial boiling point and boiling range (°C):</b> Not determined | See substance data                             |

Substance data, boiling point

| Ingredient(s)                               | Value (°C)        | Method | Atmospheric pressure (hPa) |
|---|-------------------|--------|----------------------------|
| alkyl alcohol ethoxylate                    | No data available |        |                            |
| sodium dodecylbenzenesulphonate             | No data available |        |                            |
| sodium 2-(2-dodecyloxyethoxy)ethyl sulphate | No data available |        |                            |
| 1,2-benzisothiazol-3(2H)-one                | No data available |        |                            |
| 2-methyl-2H-isothiazol-3-one                | No data available |        |                            |
| 3(2H)-Isothiazolone, 2-octyl-               | No data available |        |                            |

|  | Method / remark                                |
|--|--|
| <b>Flammability (liquid):</b> Not flammable.   |  |
| <b>Flash point (°C):</b> Not applicable.   |  |
| <b>Sustained combustion:</b> Not applicable.<br>( UN Manual of Tests and Criteria, section 32, L.2 ) |  |
| <b>Evaporation rate:</b> Not determined  | Not relevant to classification of this product |
| <b>Flammability (solid, gas):</b> Not applicable to liquids  |  |
| <b>Upper/lower flammability limit (%):</b> Not determined  |  |

Substance data, flammability or explosive limits, if available:

|  | Method / remark    |
|--|--------------------|
| <b>Vapour pressure:</b> Not determined | See substance data |

Substance data, vapour pressure

| Ingredient(s)                               | Value (Pa)        | Method | Temperature (°C) |
|---|-------------------|--------|------------------|
| alkyl alcohol ethoxylate                    | No data available |        |                  |
| sodium dodecylbenzenesulphonate             | No data available |        |                  |
| sodium 2-(2-dodecyloxyethoxy)ethyl sulphate | No data available |        |                  |
| 1,2-benzisothiazol-3(2H)-one                | No data available |        |                  |
| 2-methyl-2H-isothiazol-3-one                | No data available |        |                  |
| 3(2H)-Isothiazolone, 2-octyl-               | No data available |        |                  |

|   | Method / remark                                |
|---|--|
| <b>Vapour density:</b> Not determined                         | Not relevant to classification of this product |
| <b>Relative density:</b> ≈ 1.02 (20 °C)                       | OECD 109 (EU A.3)                              |
| <b>Solubility in / Miscibility with Water:</b> Fully miscible |  |

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Substance data, solubility in water

| Ingredient(s)                               | Value (g/l)       | Method           | Temperature (°C) |
|---|-------------------|------------------|------------------|
| alkyl alcohol ethoxylate                    | 100               | Method not given |                  |
| sodium dodecylbenzenesulphonate             | No data available |                  |                  |
| sodium 2-(2-dodecyloxyethoxy)ethyl sulphate | No data available |                  |                  |
| 1,2-benzisothiazol-3(2H)-one                | No data available |                  |                  |
| 2-methyl-2H-isothiazol-3-one                | No data available |                  |                  |
| 3(2H)-Isothiazolone, 2-octyl-               | No data available |                  |                  |

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

## Method / remark

**Autoignition temperature:** Not determined  
**Decomposition temperature:** Not applicable.  
**Viscosity:** ≈ 450 mPa.s (20 °C)  
**Explosive properties:** Not explosive.  
**Oxidising properties:** Not oxidising.

DM-006 Viscosity - Standard

## 9.2 Other information

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

OECD 115

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

None known under normal use conditions.

## 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): &gt;2000

## 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) |
|---|------------------|-------------------|---------|--|-------------------|
| alkyl alcohol ethoxylate                    | LD <sub>50</sub> | > 300 - 2000      |         | Method not given                         |                   |
| sodium dodecylbenzenesulphonate             | LD <sub>50</sub> | 650               | Rat     | Non guideline test<br>Weight of evidence |                   |
| sodium 2-(2-dodecyloxyethoxy)ethyl sulphate |                  | No data available |         |  |                   |
| 1,2-benzisothiazol-3(2H)-one                | LD <sub>50</sub> | > 2000            | Rat     |  |                   |
| 2-methyl-2H-isothiazol-3-one                | LD <sub>50</sub> | > 2000            | Rat     | OECD 423 (EU B.1 tris)                   |                   |
| 3(2H)-Isothiazolone, 2-octyl-               |                  | No data available |         |  |                   |

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## Acute dermal toxicity

| Ingredient(s)                               | Endpoint         | Value (mg/kg)     | Species | Method            | Exposure time (h) |
|---|------------------|-------------------|---------|-------------------|-------------------|
| alkyl alcohol ethoxylate                    | LD <sub>50</sub> | > 2000            |         | Method not given  |                   |
| sodium dodecylbenzenesulphonate             |                  | No data available |         |                   |                   |
| sodium 2-(2-dodecyloxyethoxy)ethyl sulphate |                  | No data available |         |                   |                   |
| 1,2-benzisothiazol-3(2H)-one                | LD <sub>50</sub> | > 2000            | Rat     | OECD 402 (EU B.3) |                   |
| 2-methyl-2H-isothiazol-3-one                | LD <sub>50</sub> | > 2000            | Rat     | OECD 402 (EU B.3) |                   |
| 3(2H)-Isothiazolone, 2-octyl-               |                  | No data available |         |                   |                   |

## Acute inhalative toxicity

| Ingredient(s)                               | Endpoint | Value (mg/l)      | Species | Method | Exposure time (h) |
|---|----------|-------------------|---------|--------|-------------------|
| alkyl alcohol ethoxylate                    |          | No data available |         |        |                   |
| sodium dodecylbenzenesulphonate             |          | No data available |         |        |                   |
| sodium 2-(2-dodecyloxyethoxy)ethyl sulphate |          | No data available |         |        |                   |
| 1,2-benzisothiazol-3(2H)-one                |          | No data available |         |        |                   |
| 2-methyl-2H-isothiazol-3-one                |          | No data available |         |        |                   |
| 3(2H)-Isothiazolone, 2-octyl-               |          | No data available |         |        |                   |

## Irritation and corrosivity

## Skin irritation and corrosivity

| Ingredient(s)                               | Result            | Species | Method | Exposure time |
|---|-------------------|---------|--------|---------------|
| alkyl alcohol ethoxylate                    | No data available |         |        |               |
| sodium dodecylbenzenesulphonate             | No data available |         |        |               |
| sodium 2-(2-dodecyloxyethoxy)ethyl sulphate | No data available |         |        |               |
| 1,2-benzisothiazol-3(2H)-one                | Corrosive         |         |        |               |
| 2-methyl-2H-isothiazol-3-one                | Corrosive         |         |        |               |
| 3(2H)-Isothiazolone, 2-octyl-               | No data available |         |        |               |

## Eye irritation and corrosivity

| Ingredient(s)                               | Result            | Species | Method | Exposure time |
|---|-------------------|---------|--------|---------------|
| alkyl alcohol ethoxylate                    | No data available |         |        |               |
| sodium dodecylbenzenesulphonate             | No data available |         |        |               |
| sodium 2-(2-dodecyloxyethoxy)ethyl sulphate | No data available |         |        |               |
| 1,2-benzisothiazol-3(2H)-one                | No data available |         |        |               |
| 2-methyl-2H-isothiazol-3-one                | No data available |         |        |               |
| 3(2H)-Isothiazolone, 2-octyl-               | No data available |         |        |               |

## Respiratory tract irritation and corrosivity

| Ingredient(s)                               | Result            | Species | Method | Exposure time |
|---|-------------------|---------|--------|---------------|
| alkyl alcohol ethoxylate                    | No data available |         |        |               |
| sodium dodecylbenzenesulphonate             | No data available |         |        |               |
| sodium 2-(2-dodecyloxyethoxy)ethyl sulphate | No data available |         |        |               |
| 1,2-benzisothiazol-3(2H)-one                | No data available |         |        |               |
| 2-methyl-2H-isothiazol-3-one                | No data available |         |        |               |
| 3(2H)-Isothiazolone, 2-octyl-               | No data available |         |        |               |

## Sensitisation

## Sensitisation by skin contact

| Ingredient(s)                               | Result            | Species    | Method | Exposure time (h) |
|---|-------------------|------------|--------|-------------------|
| alkyl alcohol ethoxylate                    | No data available |            |        |                   |
| sodium dodecylbenzenesulphonate             | No data available |            |        |                   |
| sodium 2-(2-dodecyloxyethoxy)ethyl sulphate | No data available |            |        |                   |
| 1,2-benzisothiazol-3(2H)-one                | Sensitising       | Guinea pig |        |                   |
| 2-methyl-2H-isothiazol-3-one                | Sensitising       | Guinea pig |        |                   |
| 3(2H)-Isothiazolone, 2-octyl-               | No data available |            |        |                   |

## Sensitisation by inhalation

| Ingredient(s)                   | Result            | Species | Method | Exposure time |
|---------------------------------|-------------------|---------|--------|---------------|
| alkyl alcohol ethoxylate        | No data available |         |        |               |
| sodium dodecylbenzenesulphonate | No data available |         |        |               |

## Persil Professional Concentrated Performance Biological Liquid

|   |                   |  |  |  |
|---|-------------------|--|--|--|
|   |                   |  |  |  |
| sodium 2-(2-dodecyloxyethoxy)ethyl sulphate | No data available |  |  |  |
| 1,2-benzisothiazol-3(2H)-one                | No data available |  |  |  |
| 2-methyl-2H-isothiazol-3-one                | No data available |  |  |  |
| 3(2H)-Isothiazolone, 2-octyl-               | 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) |
|---|---|-----------------------|-------------------|------------------|
| alkyl alcohol ethoxylate                    | No evidence for mutagenicity, negative test results |                       | No data available |                  |
| sodium dodecylbenzenesulphonate             | No data available                                   |                       | No data available |                  |
| sodium 2-(2-dodecyloxyethoxy)ethyl sulphate | 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 |                  |
| 2-methyl-2H-isothiazol-3-one                | No evidence for mutagenicity, negative test results | OECD 471 (EU B.12/13) | No data available |                  |
| 3(2H)-Isothiazolone, 2-octyl-               | No data available                                   |                       | No data available |                  |

## Carcinogenicity

| Ingredient(s)                               | Effect   |
|---|--|
| alkyl alcohol ethoxylate                    | No evidence for carcinogenicity, negative test results |
| sodium dodecylbenzenesulphonate             | No data available                                      |
| sodium 2-(2-dodecyloxyethoxy)ethyl sulphate | No data available                                      |
| 1,2-benzisothiazol-3(2H)-one                | No data available                                      |
| 2-methyl-2H-isothiazol-3-one                | No data available                                      |
| 3(2H)-Isothiazolone, 2-octyl-               | 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 |
|---|----------|-----------------|--------------------|---------|--------|---------------|------------------------------------|
| alkyl alcohol ethoxylate                    |          |                 | No data available  |         |        |               | Not toxic for reproduction         |
| sodium dodecylbenzenesulphonate             |          |                 | No data available  |         |        |               |                                    |
| sodium 2-(2-dodecyloxyethoxy)ethyl sulphate |          |                 | No data available  |         |        |               |                                    |
| 1,2-benzisothiazol-3(2H)-one                |          |                 | No data available  |         |        |               |                                    |
| 2-methyl-2H-isothiazol-3-one                |          |                 | No data available  |         |        |               |                                    |
| 3(2H)-Isothiazolone, 2-octyl-               |          |                 | 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 |
|---|----------|--------------------|---------|--------|----------------------|--------------------------------------|
| alkyl alcohol ethoxylate                    |          | No data available  |         |        |                      |                                      |
| sodium dodecylbenzenesulphonate             |          | No data available  |         |        |                      |                                      |
| sodium 2-(2-dodecyloxyethoxy)ethyl sulphate |          | No data available  |         |        |                      |                                      |
| 1,2-benzisothiazol-3(2H)-one                |          | No data available  |         |        |                      |                                      |
| 2-methyl-2H-isothiazol-3-one                |          | No data available  |         |        |                      |                                      |
| 3(2H)-Isothiazolone, 2-octyl-               |          | 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 |
|---|----------|--------------------|---------|--------|----------------------|--------------------------------------|
| alkyl alcohol ethoxylate                    |          | No data available  |         |        |                      |                                      |
| sodium dodecylbenzenesulphonate             |          | No data available  |         |        |                      |                                      |
| sodium 2-(2-dodecyloxyethoxy)ethyl sulphate |          | No data available  |         |        |                      |                                      |
| 1,2-benzisothiazol-3(2H)-one                |          | No data available  |         |        |                      |                                      |
| 2-methyl-2H-isothiazol-3-one                |          | No data available  |         |        |                      |                                      |
| 3(2H)-Isothiazolone, 2-octyl-               |          | No data available  |         |        |                      |                                      |



## Persil Professional Concentrated Performance Biological Liquid

|  |  |           |  |  |  |  |
|--|--|-----------|--|--|--|--|
|  |  | available |  |  |  |  |
|--|--|-----------|--|--|--|--|

## Sub-chronic inhalation toxicity

| Ingredient(s)                               | Endpoint | Value (mg/kg bw/d) | Species | Method | Exposure time (days) | Specific effects and organs affected |
|---|----------|--------------------|---------|--------|----------------------|--------------------------------------|
| alkyl alcohol ethoxylate                    |          | No data available  |         |        |                      |                                      |
| sodium dodecylbenzenesulphonate             |          | No data available  |         |        |                      |                                      |
| sodium 2-(2-dodecyloxyethoxy)ethyl sulphate |          | No data available  |         |        |                      |                                      |
| 1,2-benzisothiazol-3(2H)-one                |          | No data available  |         |        |                      |                                      |
| 2-methyl-2H-isothiazol-3-one                |          | No data available  |         |        |                      |                                      |
| 3(2H)-Isothiazolone, 2-octyl-               |          | 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 |
|---|----------------|----------|--------------------|---------|--------|---------------|--------------------------------------|--------|
| alkyl alcohol ethoxylate                    |                |          | No data available  |         |        |               |                                      |        |
| sodium dodecylbenzenesulphonate             |                |          | No data available  |         |        |               |                                      |        |
| sodium 2-(2-dodecyloxyethoxy)ethyl sulphate |                |          | No data available  |         |        |               |                                      |        |
| 1,2-benzisothiazol-3(2H)-one                |                |          | No data available  |         |        |               |                                      |        |
| 2-methyl-2H-isothiazol-3-one                |                |          | No data available  |         |        |               |                                      |        |
| 3(2H)-Isothiazolone, 2-octyl-               |                |          | No data available  |         |        |               |                                      |        |

## STOT-single exposure

| Ingredient(s)                               | Affected organ(s) |
|---|-------------------|
| alkyl alcohol ethoxylate                    | No data available |
| sodium dodecylbenzenesulphonate             | No data available |
| sodium 2-(2-dodecyloxyethoxy)ethyl sulphate | No data available |
| 1,2-benzisothiazol-3(2H)-one                | No data available |
| 2-methyl-2H-isothiazol-3-one                | No data available |
| 3(2H)-Isothiazolone, 2-octyl-               | No data available |

## STOT-repeated exposure

| Ingredient(s)                               | Affected organ(s) |
|---|-------------------|
| alkyl alcohol ethoxylate                    | No data available |
| sodium dodecylbenzenesulphonate             | No data available |
| sodium 2-(2-dodecyloxyethoxy)ethyl sulphate | No data available |
| 1,2-benzisothiazol-3(2H)-one                | No data available |
| 2-methyl-2H-isothiazol-3-one                | No data available |
| 3(2H)-Isothiazolone, 2-octyl-               | 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) |
|---------------------------------|------------------|-------------------|---------|------------------|-------------------|
| alkyl alcohol ethoxylate        | LC <sub>50</sub> | 1 - 10            |         | Method not given |                   |
| sodium dodecylbenzenesulphonate |                  | No data available |         |                  |                   |

## Persil Professional Concentrated Performance Biological Liquid

|   |                  |                   |                            |                   |  |
|---|------------------|-------------------|----------------------------|-------------------|--|
| sodium 2-(2-dodecyloxyethoxy)ethyl sulphate |                  | No data available |                            |                   |  |
| 1,2-benzisothiazol-3(2H)-one                | LC <sub>50</sub> | 2.18              | <i>Oncorhynchus mykiss</i> | OECD 203 (EU C.1) |  |
| 2-methyl-2H-isothiazol-3-one                |                  | No data available |                            |                   |  |
| 3(2H)-Isothiazolone, 2-octyl-               |                  | No data available |                            |                   |  |

## Aquatic short-term toxicity - crustacea

| Ingredient(s)                               | Endpoint         | Value (mg/l)      | Species        | Method            | Exposure time (h) |
|---|------------------|-------------------|----------------|-------------------|-------------------|
| alkyl alcohol ethoxylate                    | EC <sub>50</sub> | 1 - 10            |                | Method not given  |                   |
| sodium dodecylbenzenesulphonate             |                  | No data available |                |                   |                   |
| sodium 2-(2-dodecyloxyethoxy)ethyl sulphate |                  | No data available |                |                   |                   |
| 1,2-benzisothiazol-3(2H)-one                | EC <sub>50</sub> | 2.94              | <i>Daphnia</i> | OECD 202 (EU C.2) | 48                |
| 2-methyl-2H-isothiazol-3-one                |                  | No data available |                |                   |                   |
| 3(2H)-Isothiazolone, 2-octyl-               |                  | No data available |                |                   |                   |

## Aquatic short-term toxicity - algae

| Ingredient(s)                               | Endpoint                       | Value (mg/l)      | Species | Method            | Exposure time (h) |
|---|--------------------------------|-------------------|---------|-------------------|-------------------|
| alkyl alcohol ethoxylate                    | LC <sub>50</sub>               | 1 - 10            |         | Method not given  |                   |
| sodium dodecylbenzenesulphonate             |                                | No data available |         |                   |                   |
| sodium 2-(2-dodecyloxyethoxy)ethyl sulphate |                                | No data available |         |                   |                   |
| 1,2-benzisothiazol-3(2H)-one                | E <sub>r</sub> C <sub>50</sub> | 0.11              |         | OECD 201 (EU C.3) | 72                |
| 2-methyl-2H-isothiazol-3-one                |                                | No data available |         |                   |                   |
| 3(2H)-Isothiazolone, 2-octyl-               |                                | No data available |         |                   |                   |

## Aquatic short-term toxicity - marine species

| Ingredient(s)                               | Endpoint | Value (mg/l)      | Species | Method | Exposure time (days) |
|---|----------|-------------------|---------|--------|----------------------|
| alkyl alcohol ethoxylate                    |          | No data available |         |        |                      |
| sodium dodecylbenzenesulphonate             |          | No data available |         |        |                      |
| sodium 2-(2-dodecyloxyethoxy)ethyl sulphate |          | No data available |         |        |                      |
| 1,2-benzisothiazol-3(2H)-one                |          | No data available |         |        |                      |
| 2-methyl-2H-isothiazol-3-one                |          | No data available |         |        |                      |
| 3(2H)-Isothiazolone, 2-octyl-               |          | No data available |         |        |                      |

## Impact on sewage plants - toxicity to bacteria

| Ingredient(s)                               | Endpoint         | Value (mg/l)      | Inoculum                | Method           | Exposure time |
|---|------------------|-------------------|-------------------------|------------------|---------------|
| alkyl alcohol ethoxylate                    | EC <sub>50</sub> | > 100             |                         | Method not given |               |
| sodium dodecylbenzenesulphonate             |                  | No data available |                         |                  |               |
| sodium 2-(2-dodecyloxyethoxy)ethyl sulphate |                  | No data available |                         |                  |               |
| 1,2-benzisothiazol-3(2H)-one                | EC <sub>20</sub> | 3.3               | <i>Activated sludge</i> | OECD 209         | 3 hour(s)     |
| 2-methyl-2H-isothiazol-3-one                | EC <sub>20</sub> | 2.8               | <i>Activated sludge</i> | OECD 209         | 3 hour(s)     |
| 3(2H)-Isothiazolone, 2-octyl-               |                  | No data available |                         |                  |               |

## Aquatic long-term toxicity

## Aquatic long-term toxicity - fish

| Ingredient(s)                               | Endpoint | Value (mg/l)      | Species | Method | Exposure time | Effects observed |
|---|----------|-------------------|---------|--------|---------------|------------------|
| alkyl alcohol ethoxylate                    |          | No data available |         |        |               |                  |
| sodium dodecylbenzenesulphonate             |          | No data available |         |        |               |                  |
| sodium 2-(2-dodecyloxyethoxy)ethyl sulphate |          | No data available |         |        |               |                  |
| 1,2-benzisothiazol-3(2H)-one                |          | No data available |         |        |               |                  |

## Persil Professional Concentrated Performance Biological Liquid

|                               |  |                   |  |  |  |  |
|-------------------------------|--|-------------------|--|--|--|--|
| 2-methyl-2H-isothiazol-3-one  |  | No data available |  |  |  |  |
| 3(2H)-Isothiazolone, 2-octyl- |  | No data available |  |  |  |  |

## Aquatic long-term toxicity - crustacea

| Ingredient(s)                               | Endpoint | Value (mg/l)      | Species | Method | Exposure time | Effects observed |
|---|----------|-------------------|---------|--------|---------------|------------------|
| alkyl alcohol ethoxylate                    |          | No data available |         |        |               |                  |
| sodium dodecylbenzenesulphonate             |          | No data available |         |        |               |                  |
| sodium 2-(2-dodecyloxyethoxy)ethyl sulphate |          | No data available |         |        |               |                  |
| 1,2-benzisothiazol-3(2H)-one                |          | No data available |         |        |               |                  |
| 2-methyl-2H-isothiazol-3-one                |          | No data available |         |        |               |                  |
| 3(2H)-Isothiazolone, 2-octyl-               |          | 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 |
|---|----------|---------------------------|---------|--------|----------------------|------------------|
| alkyl alcohol ethoxylate                    |          | No data available         |         |        |                      |                  |
| sodium dodecylbenzenesulphonate             |          | No data available         |         |        |                      |                  |
| sodium 2-(2-dodecyloxyethoxy)ethyl sulphate |          | No data available         |         |        |                      |                  |
| 1,2-benzisothiazol-3(2H)-one                |          | No data available         |         |        |                      |                  |
| 2-methyl-2H-isothiazol-3-one                |          | No data available         |         |        |                      |                  |
| 3(2H)-Isothiazolone, 2-octyl-               |          | No data available         |         |        |                      |                  |

**Terrestrial toxicity**

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

Terrestrial toxicity - plants, if available:

Terrestrial toxicity - birds, if available:

Terrestrial toxicity - beneficial insects, if available:

Terrestrial toxicity - soil bacteria, if available:

**12.2 Persistence and degradability****Abiotic degradation**

Abiotic degradation - photodegradation in air, if available:

Abiotic degradation - hydrolysis, if available:

Abiotic degradation - other processes, if available:

**Biodegradation**

Ready biodegradability - aerobic conditions

| Ingredient(s)                               | Inoculum | Analytical method | DT <sub>50</sub> | Method             | Evaluation                 |
|---|----------|-------------------|------------------|--------------------|----------------------------|
| alkyl alcohol ethoxylate                    |          |                   |                  |                    | Readily biodegradable      |
| sodium dodecylbenzenesulphonate             |          |                   |                  | OECD 301E          | Readily biodegradable      |
| sodium 2-(2-dodecyloxyethoxy)ethyl sulphate |          |                   |                  |                    | No data available          |
| 1,2-benzisothiazol-3(2H)-one                |          |                   |                  | Weight of evidence | Not readily biodegradable. |
| 2-methyl-2H-isothiazol-3-one                |          |                   |                  |                    | Not readily biodegradable. |
| 3(2H)-Isothiazolone, 2-octyl-               |          |                   |                  |                    | No data available          |

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 |
| 2-methyl-2H-isothiazol-3-one | Surface water (fresh)             | Mineralisation rate | > 50 % in 4 day(s) | OECD 309  | Biodegradable |

## Persil Professional Concentrated Performance Biological Liquid

**12.3 Bioaccumulative potential**

Partition coefficient n-octanol/water (log Kow)

| Ingredient(s)                               | Value             | Method   | Evaluation                  | Remark |
|---|-------------------|----------|-----------------------------|--------|
| alkyl alcohol ethoxylate                    | No data available |          |                             |        |
| sodium dodecylbenzenesulphonate             | No data available |          |                             |        |
| sodium 2-(2-dodecyloxyethoxy)ethyl sulphate | No data available |          |                             |        |
| 1,2-benzisothiazol-3(2H)-one                | 0.7               | OECD 107 | No bioaccumulation expected |        |
| 2-methyl-2H-isothiazol-3-one                | -0.32             | OECD 107 | No bioaccumulation expected |        |
| 3(2H)-Isothiazolone, 2-octyl-               | No data available |          |                             |        |

Bioconcentration factor (BCF)

| Ingredient(s)                               | Value             | Species | Method   | Evaluation | Remark |
|---|-------------------|---------|----------|------------|--------|
| alkyl alcohol ethoxylate                    | No data available |         |          |            |        |
| sodium dodecylbenzenesulphonate             | No data available |         |          |            |        |
| sodium 2-(2-dodecyloxyethoxy)ethyl sulphate | No data available |         |          |            |        |
| 1,2-benzisothiazol-3(2H)-one                | 6.95              |         | OECD 305 |            |        |
| 2-methyl-2H-isothiazol-3-one                | 3.16              |         | OECD 305 |            |        |
| 3(2H)-Isothiazolone, 2-octyl-               | No data available |         |          |            |        |

**12.4 Mobility in soil**

Adsorption/Desorption to soil or sediment

| Ingredient(s)                               | Adsorption coefficient Log Koc | Desorption coefficient Log Koc(des) | Method | Soil/sediment type | Evaluation                                       |
|---|--------------------------------|-------------------------------------|--------|--------------------|--|
| alkyl alcohol ethoxylate                    | No data available              |                                     |        |                    | Potential for mobility in soil, soluble in water |
| sodium dodecylbenzenesulphonate             | No data available              |                                     |        |                    |  |
| sodium 2-(2-dodecyloxyethoxy)ethyl sulphate | No data available              |                                     |        |                    |  |
| 1,2-benzisothiazol-3(2H)-one                | No data available              |                                     |        |                    |  |
| 2-methyl-2H-isothiazol-3-one                | No data available              |                                     |        |                    |  |
| 3(2H)-Isothiazolone, 2-octyl-               | 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.

**European Waste Catalogue:**

20 01 29\* - detergents containing dangerous substances.

**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**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**

**Persil Professional Concentrated Performance Biological Liquid****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.

UFI: CFM5-803P-Y00H-U2JV

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

|  |          |
|--|----------|
| anionic surfactants, non-ionic surfactants   | 5 - 15 % |
| phosphonates, soap   | < 5 %    |
| perfumes, Benzisothiazolinone, enzymes, Butylphenyl Methylpropional, Citronellol, optical brighteners, Methylisothiazolinone, Octylisothiazolinone |          |

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:** MSDS5812

**Version:** 13.0

**Revision:** 2018-11-04

**Reason for revision:**

This data sheet contains changes from the previous version in section(s):, 2, 3, 8, 9, 11, 12, 15, 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:**

- H301 - Toxic if swallowed.
- H302 - Harmful if swallowed.
- H311 - Toxic in contact with skin.
- H314 - Causes severe skin burns and eye damage.
- H315 - Causes skin irritation.
- H317 - May cause an allergic skin reaction.
- H318 - Causes serious eye damage.
- H330 - Fatal if inhaled.
- H331 - Toxic if inhaled.
- H400 - Very toxic to aquatic life.
- H410 - Very toxic to aquatic life with long lasting effects.
- H411 - Toxic to aquatic life with long lasting effects.
- H412 - Harmful to aquatic life with long lasting effects.

**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
- LD50 - Lethal Dose, 50% / Median Lethal dose
- LC50 - Lethal Concentration, 50% / Median Lethal Concentration
- EC50 - effective concentration, 50%
- NOEL - No observed effect level
- NOAEL - No observed adverse effect level
- OECD - Organization for Economic Cooperation and Development

**End of Safety Data Sheet**