

**Persil Professional Non Bio Capsules**

Revision: 2015-04-21

Version: 04.0

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

**1.1 Product identifier**

**Trade name:** Persil Professional Non Bio Capsules

*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:**

For professional use only.

AISE-P102 - Laundry detergent. Semi-automatic process

AISE-P103 - Laundry detergent. Manual process

**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, Maarssenbroeksedijk 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: MSDSinfoUK@sealedair.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**

The product has been classified and labelled in accordance with Regulation (EC) No 1272/2008.

Skin Irrit. 2 (H315)

Eye Irrit. 2 (H319)

Aquatic Chronic 3 (H412)

**Classification in accordance with Directive 1999/45/EC and corresponding national legislation**

**Indication of danger**

Xi - Irritant

**Risk phrases:**

R36 - Irritating to eyes.

**2.2 Label elements**



**Signal word:** Warning.

**Hazard statements:**

H319 - Causes serious eye irritation.

H315 - Causes skin irritation.

H412 - Harmful to aquatic life with long lasting effects.

**Precautionary statements:**

P102 - Keep out of reach of children.

P302 + P352 - IF ON SKIN: Wash with plenty of soap and water.

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

P337 - If eye irritation persists:

P332 + P313 - If skin irritation occurs: Get medical advice or attention.

P273 - Avoid release to the environment.

P501 - Dispose of contents and container in accordance with local, regional, national, international regulations.

**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   | Classification (1999/45/EC) | Notes | Weight percent |
|---|-----------|------------|-------------------|--|-----------------------------|-------|----------------|
| benzenesulphonic acid, mono-C10-13-alkyl derivs., compds. with ethanolamine | 287-335-8 | 85480-55-3 | [1]               | Acute Tox. 4 (H302)<br>Skin Irrit. 2 (H315)<br>Eye Dam. 1 (H318)                               | Xn;R22<br>Xi;R38-41         |       | 20-30          |
| propane-1,2-diol  | 200-338-0 | 57-55-6    | 01-2119456809-23  | Not classified   | -                           |       | 10-20          |
| alkyl alcohol ethoxylate  | 500-195-7 | 68131-39-5 | No data available | Acute Tox. 4 (H302)<br>Eye Dam. 1 (H318)<br>Aquatic Acute 1 (H400)<br>Aquatic Chronic 2 (H411) | Xn;R22<br>Xi;R41<br>N;R50   |       | 10-20          |
| glycerol  | 200-289-5 | 56-81-5    | 01-2119471987-18  | Not classified   | -                           |       | 1-3            |

\* Polymer.

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

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.

**SECTION 4: First aid measures****4.1 Description of first aid measures****Inhalation**

Get medical attention or advice if you feel unwell.

**Skin contact:**

Wash skin with plenty of lukewarm, gently flowing water. Take off immediately all contaminated clothing and wash it before re-use. If skin irritation occurs: Get medical advice or attention.

**Eye contact:**

Immediately rinse eyes cautiously with lukewarm water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice or attention.

**Ingestion:**

Rinse mouth. Immediately drink 1 glass of water. Get medical attention or advice if you feel unwell.

**Self-protection of first aider:**

Consider personal protective equipment as indicated in subsection 8.2.

**4.2 Most important symptoms and effects, both acute and delayed****Inhalation:**

No known effects or symptoms in normal use.

**Skin contact:**

Causes irritation.

**Eye contact:**

Causes severe irritation.

**Ingestion:**

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**

## Persil Professional Non Bio Capsules

**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. Do not allow to enter the ground/soil. Dilute with plenty of water. Inform responsible authorities in case undiluted product reaches drainage system, surface or ground water or the ground/soil.

**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 Sealed Air. 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)  |
|------------------|---|---|
| propane-1,2-diol | 150 ppm total particulates and vapour<br>474 mg/m <sup>3</sup> total particulates and vapour<br>10 mg/m <sup>3</sup> particulates | 450 ppm total particulate and vapour<br>1422 mg/m <sup>3</sup> total particulate and vapour<br>30 mg/m <sup>3</sup> particulate |
| glycerol         | 10 mg/m <sup>3</sup> mist   | 30 mg/m <sup>3</sup> mist   |

Biological limit values, if available:

Recommended monitoring procedures, 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 |
|---|----------------------------|-------------------------------|---------------------------|------------------------------|
| benzenesulphonic acid, mono-C10-13-alkyl derivs., compds. with ethanolamine | No data available          | No data available             | No data available         | No data available            |
| propane-1,2-diol  | -                          | -                             | -                         | -                            |
| alkyl alcohol ethoxylate  | No data available          | No data available             | No data available         | No data available            |
| glycerol  | -                          | -                             | -                         | 229                          |

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) |
|---|----------------------------|--|---------------------------|---|
| benzenesulphonic acid, mono-C10-13-alkyl derivs., compds. with ethanolamine | No data available          | No data available                        | No data available         | No data available                       |
| propane-1,2-diol  | No data available          | -  | No data available         | -                                       |
| alkyl alcohol ethoxylate  | No data available          | No data available                        | No data available         | No data available                       |
| glycerol  | No data available          | -  | No data available         | -                                       |

DNEL dermal exposure - Consumer

## Persil Professional Non Bio Capsules

| Ingredient(s)   | Short term - Local effects | Short term - Systemic effects (mg/kg bw) | Long term - Local effects | Long term - Systemic effects (mg/kg bw) |
|---|----------------------------|--|---------------------------|---|
| benzenesulphonic acid, mono-C10-13-alkyl derivs., compds. with ethanolamine | No data available          | No data available                        | No data available         | No data available                       |
| propane-1,2-diol  | No data available          | -  | No data available         | -                                       |
| alkyl alcohol ethoxylate  | No data available          | No data available                        | No data available         | No data available                       |
| glycerol  | 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 |
|---|----------------------------|-------------------------------|---------------------------|------------------------------|
| benzenesulphonic acid, mono-C10-13-alkyl derivs., compds. with ethanolamine | No data available          | No data available             | No data available         | No data available            |
| propane-1,2-diol  | -                          | -                             | 10                        | 168                          |
| alkyl alcohol ethoxylate  | No data available          | No data available             | No data available         | No data available            |
| glycerol  | -                          | -                             | -                         | 56                           |

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 |
|---|----------------------------|-------------------------------|---------------------------|------------------------------|
| benzenesulphonic acid, mono-C10-13-alkyl derivs., compds. with ethanolamine | No data available          | No data available             | No data available         | No data available            |
| propane-1,2-diol  | -                          | -                             | 10                        | 50                           |
| alkyl alcohol ethoxylate  | No data available          | No data available             | No data available         | No data available            |
| glycerol  | -                          | -                             | -                         | 33                           |

## 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) |
|---|-----------------------------|------------------------------|---------------------|-------------------------------|
| benzenesulphonic acid, mono-C10-13-alkyl derivs., compds. with ethanolamine | No data available           | No data available            | No data available   | No data available             |
| propane-1,2-diol  | 260                         | 26                           | 183                 | 20000                         |
| alkyl alcohol ethoxylate  | No data available           | No data available            | No data available   | No data available             |
| glycerol  | 0.885                       | 0.0885                       | 8.85                | 1000                          |

## Environmental exposure - PNEC, continued

| Ingredient(s)   | Sediment, freshwater (mg/kg) | Sediment, marine (mg/kg) | Soil (mg/kg)      | Air (mg/m <sup>3</sup> ) |
|---|------------------------------|--------------------------|-------------------|--------------------------|
| benzenesulphonic acid, mono-C10-13-alkyl derivs., compds. with ethanolamine | No data available            | No data available        | No data available | No data available        |
| propane-1,2-diol  | 572                          | 57.2                     | 50                | -                        |
| alkyl alcohol ethoxylate  | No data available            | No data available        | No data available | No data available        |
| glycerol  | 3.3                          | 0.33                     | 0.141             | -                        |

## 8.2 Exposure controls

The following information applies for the uses indicated in subsection 1.2.

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.

## Hand protection:

Chemical-resistant protective gloves (EN 374).

Verify instructions regarding permeability and breakthrough time, as provided by the gloves supplier.

Consider specific local use conditions, such as risk of splashes, cuts, contact time and temperature.

Suggested gloves for prolonged contact:

Material: butyl rubber

Penetration time: >= 480 min

Material thickness: >= 0.7 mm

Suggested gloves for protection against splashes:

Material: nitrile rubber

Penetration time: >= 30 min

Material thickness: >= 0.4 mm

## Body protection:

In consultation with the supplier of protective gloves a different type providing similar protection may be chosen.

No special requirements under normal use conditions.

## Persil Professional Non Bio Capsules

**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 (%):** 2

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

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

**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.

**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

**Physical State:** Liquid

**Colour:** Clear, Blue

**Odour:** Perfumed

**Odour threshold:** Not applicable

**pH:**

**Dilution pH:** ≈ 9 (10%)

**Melting point/freezing point (°C):** Not determined

**Initial boiling point and boiling range (°C):** Not determined

Substance data, boiling point

| Ingredient(s)   | Value (°C)        | Method           | Atmospheric pressure (hPa) |
|---|-------------------|------------------|----------------------------|
| benzenesulphonic acid, mono-C10-13-alkyl derivs., compds. with ethanolamine | No data available |                  |                            |
| propane-1,2-diol  | 185-190           | Method not given | 1013                       |
| alkyl alcohol ethoxylate  | No data available |                  |                            |
| glycerol  | 290               | Method not given | 1013                       |

#### Method / remark

**Flash point (°C):** Not applicable.

**Sustained combustion:** Not determined

**Evaporation rate:** Not determined

**Flammability (solid, gas):** Not determined

**Upper/lower flammability limit (%):** Not determined

Substance data, flammability or explosive limits, if available:

| Ingredient(s)    | Lower limit (% vol) | Upper limit (% vol) |
|------------------|---------------------|---------------------|
| propane-1,2-diol | 2.6                 | 12.6                |
| glycerol         | 2.7                 | 19                  |

#### Method / remark

**Vapour pressure:** Not determined

Substance data, vapour pressure

| Ingredient(s)   | Value (Pa)        | Method           | Temperature (°C) |
|---|-------------------|------------------|------------------|
| benzenesulphonic acid, mono-C10-13-alkyl derivs., compds. with ethanolamine | No data available |                  |                  |
| propane-1,2-diol  | 18.6              | Method not given | 20               |
| alkyl alcohol ethoxylate  | No data available |                  |                  |
| glycerol  | < 1               | Method not given | 20               |

#### Method / remark

**Vapour density:** Not determined

**Relative density:** 1.03 g/cm<sup>3</sup> (20 °C)

**Solubility in / Miscibility with Water:** Fully miscible

Substance data, solubility in water

| Ingredient(s) | Value (g/l) | Method | Temperature (°C) |
|---------------|-------------|--------|------------------|
|---------------|-------------|--------|------------------|

## Persil Professional Non Bio Capsules

|   |                   |                  |    |
|---|-------------------|------------------|----|
| benzenesulphonic acid, mono-C10-13-alkyl derivs., compds. with ethanolamine | No data available |                  |    |
| propane-1,2-diol  | Soluble           | Method not given |    |
| alkyl alcohol ethoxylate  | 100               | Method not given |    |
| glycerol  | 500               | Method not given | 20 |

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

Method / remark

Autoignition temperature: Not determined  
 Decomposition temperature: Not determined  
 Viscosity: Not determined  
 Explosive properties: Not explosive.  
 Oxidising properties: Not oxidising

## 9.2 Other information

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

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:

#### Acute oral toxicity

Value  
 (mg/kg) > 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) |
|---|------------------|-------------------|---------|------------------|-------------------|
| benzenesulphonic acid, mono-C10-13-alkyl derivs., compds. with ethanolamine |                  | No data available |         |                  |                   |
| propane-1,2-diol  | LD <sub>50</sub> | > 10000           | Rat     | Method not given |                   |
| alkyl alcohol ethoxylate  | LD <sub>50</sub> | > 300 - 2000      |         | Method not given |                   |
| glycerol  | LD <sub>50</sub> | 12600             | Rat     | Method not given |                   |

Acute dermal toxicity

| Ingredient(s)   | Endpoint         | Value (mg/kg)     | Species | Method           | Exposure time (h) |
|---|------------------|-------------------|---------|------------------|-------------------|
| benzenesulphonic acid, mono-C10-13-alkyl derivs., compds. with ethanolamine |                  | No data available |         |                  |                   |
| propane-1,2-diol  | LD <sub>50</sub> | > 2000            | Rabbit  | Method not given |                   |
| alkyl alcohol ethoxylate  | LD <sub>50</sub> | > 2000            |         | Method not given |                   |
| glycerol  | LD <sub>50</sub> | > 10000           | Rabbit  | Method not given |                   |

Persil Professional Non Bio Capsules

SAFETY DATA SHEET

Acute inhalative toxicity

| Ingredient(s)   | Endpoint | Value (mg/l)      | Species | Method | Exposure time (h) |
|---|----------|-------------------|---------|--------|-------------------|
| benzenesulphonic acid, mono-C10-13-alkyl derivs., compds. with ethanolamine |          | No data available |         |        |                   |
| propane-1,2-diol  |          | No data available |         |        |                   |
| alkyl alcohol ethoxylate  |          | No data available |         |        |                   |
| glycerol  |          | No data available |         |        |                   |

Irritation and corrosivity

Skin irritation and corrosivity

| Ingredient(s)   | Result            | Species | Method            | Exposure time |
|---|-------------------|---------|-------------------|---------------|
| benzenesulphonic acid, mono-C10-13-alkyl derivs., compds. with ethanolamine | No data available |         |                   |               |
| propane-1,2-diol  | Not irritant      | Rabbit  | OECD 404 (EU B.4) |               |
| alkyl alcohol ethoxylate  | No data available |         |                   |               |
| glycerol  | Not irritant      |         | OECD 404 (EU B.4) |               |

Eye irritation and corrosivity

| Ingredient(s)   | Result                    | Species | Method            | Exposure time |
|---|---------------------------|---------|-------------------|---------------|
| benzenesulphonic acid, mono-C10-13-alkyl derivs., compds. with ethanolamine | No data available         |         |                   |               |
| propane-1,2-diol  | Not corrosive or irritant | Rabbit  | OECD 405 (EU B.5) |               |
| alkyl alcohol ethoxylate  | No data available         |         |                   |               |
| glycerol  | Not corrosive or irritant |         | Method not given  |               |

Respiratory tract irritation and corrosivity

| Ingredient(s)   | Result            | Species | Method | Exposure time |
|---|-------------------|---------|--------|---------------|
| benzenesulphonic acid, mono-C10-13-alkyl derivs., compds. with ethanolamine | No data available |         |        |               |
| propane-1,2-diol  | No data available |         |        |               |
| alkyl alcohol ethoxylate  | No data available |         |        |               |
| glycerol  | No data available |         |        |               |

Sensitisation

Sensitisation by skin contact

| Ingredient(s)   | Result            | Species    | Method                    | Exposure time (h) |
|---|-------------------|------------|---------------------------|-------------------|
| benzenesulphonic acid, mono-C10-13-alkyl derivs., compds. with ethanolamine | No data available |            |                           |                   |
| propane-1,2-diol  | Not sensitising   | Guinea pig | OECD 406 (EU B.6) / GPMT  |                   |
| alkyl alcohol ethoxylate  | No data available |            |                           |                   |
| glycerol  | Not sensitising   | Human      | Human repeated patch test |                   |

Sensitisation by inhalation

| Ingredient(s)   | Result            | Species | Method | Exposure time |
|---|-------------------|---------|--------|---------------|
| benzenesulphonic acid, mono-C10-13-alkyl derivs., compds. with ethanolamine | No data available |         |        |               |
| propane-1,2-diol  | No data available |         |        |               |
| alkyl alcohol ethoxylate  | No data available |         |        |               |
| glycerol  | 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) |
|---|---|-----------------------|-------------------|------------------|
| benzenesulphonic acid, mono-C10-13-alkyl derivs., compds. with ethanolamine | No data available                                   |                       | No data available |                  |
| propane-1,2-diol  | No evidence for mutagenicity, negative test results | Method not given      | No data available |                  |
| alkyl alcohol ethoxylate  | No evidence for mutagenicity, negative test results |                       | No data available |                  |
| glycerol  | No evidence for mutagenicity, negative test results | OECD 471 (EU B.12/13) | No data available |                  |

Carcinogenicity

| Ingredient(s)   | Effect   |
|---|--|
| benzenesulphonic acid, mono-C10-13-alkyl derivs., compds. with ethanolamine | No data available                                      |
| propane-1,2-diol  | No evidence for carcinogenicity, negative test results |
| alkyl alcohol ethoxylate  | No evidence for carcinogenicity, negative test results |
| glycerol  | No evidence for carcinogenicity, negative test results |

Toxicity for reproduction

| Ingredient(s) | Endpoint | Specific effect | Value (mg/kg bw/d) | Species | Method | Exposure time | Remarks and other effects reported |
|---------------|----------|-----------------|--------------------|---------|--------|---------------|------------------------------------|
|---------------|----------|-----------------|--------------------|---------|--------|---------------|------------------------------------|

## Persil Professional Non Bio Capsules

|   |  |  |                   |  |  |  |                                       |
|---|--|--|-------------------|--|--|--|---------------------------------------|
| benzenesulphonic acid, mono-C10-13-alkyl derivs., compds. with ethanolamine |  |  | No data available |  |  |  |                                       |
| propane-1,2-diol  |  |  | No data available |  |  |  | No evidence for reproductive toxicity |
| alkyl alcohol ethoxylate  |  |  | No data available |  |  |  | Not toxic for reproduction            |
| glycerol  |  |  | No data available |  |  |  | Not toxic for reproduction            |

## 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 |
|---|----------|--------------------|---------|--------|----------------------|--------------------------------------|
| benzenesulphonic acid, mono-C10-13-alkyl derivs., compds. with ethanolamine |          | No data available  |         |        |                      |                                      |
| propane-1,2-diol  |          | No data available  |         |        |                      |                                      |
| alkyl alcohol ethoxylate  |          | No data available  |         |        |                      |                                      |
| glycerol  |          | 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 |
|---|----------|--------------------|---------|--------|----------------------|--------------------------------------|
| benzenesulphonic acid, mono-C10-13-alkyl derivs., compds. with ethanolamine |          | No data available  |         |        |                      |                                      |
| propane-1,2-diol  |          | No data available  |         |        |                      |                                      |
| alkyl alcohol ethoxylate  |          | No data available  |         |        |                      |                                      |
| glycerol  |          | 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 |
|---|----------|--------------------|---------|--------|----------------------|--------------------------------------|
| benzenesulphonic acid, mono-C10-13-alkyl derivs., compds. with ethanolamine |          | No data available  |         |        |                      |                                      |
| propane-1,2-diol  |          | No data available  |         |        |                      |                                      |
| alkyl alcohol ethoxylate  |          | No data available  |         |        |                      |                                      |
| glycerol  |          | 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 |
|---|----------------|----------|--------------------|---------|--------|---------------|--------------------------------------|--------|
| benzenesulphonic acid, mono-C10-13-alkyl derivs., compds. with ethanolamine |                |          | No data available  |         |        |               |                                      |        |
| propane-1,2-diol  |                |          | No data available  |         |        |               |                                      |        |
| alkyl alcohol ethoxylate  |                |          | No data available  |         |        |               |                                      |        |
| glycerol  |                |          | No data available  |         |        |               |                                      |        |

STOT-single exposure

| Ingredient(s)   | Affected organ(s) |
|---|-------------------|
| benzenesulphonic acid, mono-C10-13-alkyl derivs., compds. with ethanolamine | No data available |
| propane-1,2-diol  | No data available |
| alkyl alcohol ethoxylate  | No data available |
| glycerol  | No data available |

STOT-repeated exposure

| Ingredient(s)   | Affected organ(s) |
|---|-------------------|
| benzenesulphonic acid, mono-C10-13-alkyl derivs., compds. with ethanolamine | No data available |
| propane-1,2-diol  | No data available |
| alkyl alcohol ethoxylate  | No data available |
| glycerol  | 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) |
|---|------------------|-------------------|----------------------------|------------------|-------------------|
| benzenesulphonic acid, mono-C10-13-alkyl derivs., compds. with ethanolamine |                  | No data available |                            |                  |                   |
| propane-1,2-diol  | LC <sub>50</sub> | > 1000            | <i>Fish</i>                | Method not given | 24                |
| alkyl alcohol ethoxylate  | LC <sub>50</sub> | 1 - 10            |                            | Method not given |                   |
| glycerol  | LC <sub>50</sub> | 54000             | <i>Oncorhynchus mykiss</i> | Method not given | 96                |

Aquatic short-term toxicity - crustacea

| Ingredient(s)   | Endpoint         | Value (mg/l)      | Species                     | Method           | Exposure time (h) |
|---|------------------|-------------------|-----------------------------|------------------|-------------------|
| benzenesulphonic acid, mono-C10-13-alkyl derivs., compds. with ethanolamine |                  | No data available |                             |                  |                   |
| propane-1,2-diol  | EC <sub>50</sub> | > 100             | <i>Daphnia</i>              | Method not given | 48                |
| alkyl alcohol ethoxylate  | EC <sub>50</sub> | 1 - 10            |                             | Method not given |                   |
| glycerol  | EC <sub>50</sub> | > 10000           | <i>Daphnia magna Straus</i> | Method not given | 24                |

Aquatic short-term toxicity - algae

| Ingredient(s)   | Endpoint         | Value (mg/l)      | Species                        | Method           | Exposure time (h) |
|---|------------------|-------------------|--------------------------------|------------------|-------------------|
| benzenesulphonic acid, mono-C10-13-alkyl derivs., compds. with ethanolamine |                  | No data available |                                |                  |                   |
| propane-1,2-diol  | EC <sub>50</sub> | 24200             | <i>Desmodesmus subspicatus</i> | OECD 201         | 72                |
| alkyl alcohol ethoxylate  | LC <sub>50</sub> | 1 - 10            |                                | Method not given |                   |
| glycerol  |                  | No data available |                                |                  | -                 |

Aquatic short-term toxicity - marine species

| Ingredient(s)   | Endpoint | Value (mg/l)      | Species | Method | Exposure time (days) |
|---|----------|-------------------|---------|--------|----------------------|
| benzenesulphonic acid, mono-C10-13-alkyl derivs., compds. with ethanolamine |          | No data available |         |        |                      |
| propane-1,2-diol  |          | No data available |         |        | -                    |
| alkyl alcohol ethoxylate  |          | No data available |         |        |                      |
| glycerol  |          | No data available |         |        | -                    |

Impact on sewage plants - toxicity to bacteria

| Ingredient(s)   | Endpoint         | Value (mg/l)      | Inoculum                  | Method           | Exposure time |
|---|------------------|-------------------|---------------------------|------------------|---------------|
| benzenesulphonic acid, mono-C10-13-alkyl derivs., compds. with ethanolamine |                  | No data available |                           |                  |               |
| propane-1,2-diol  | EC <sub>0</sub>  | > 20000           | <i>Pseudomonas putida</i> | Method not given | 18 hour(s)    |
| alkyl alcohol ethoxylate  | EC <sub>50</sub> | > 100             |                           | Method not given |               |
| glycerol  | EC <sub>50</sub> | > 10000           | <i>Pseudomonas putida</i> | Method not given | 16 hour(s)    |

#### Aquatic long-term toxicity

Aquatic long-term toxicity - fish

| Ingredient(s)   | Endpoint | Value (mg/l)      | Species | Method | Exposure time | Effects observed |
|---|----------|-------------------|---------|--------|---------------|------------------|
| benzenesulphonic acid, mono-C10-13-alkyl derivs., compds. with ethanolamine |          | No data available |         |        |               |                  |
| propane-1,2-diol  |          | No data available |         |        |               |                  |
| alkyl alcohol ethoxylate  |          | No data available |         |        |               |                  |
| glycerol  |          | No data available |         |        |               |                  |

Aquatic long-term toxicity - crustacea

| Ingredient(s) | Endpoint | Value | Species | Method | Exposure | Effects observed |
|---------------|----------|-------|---------|--------|----------|------------------|
|---------------|----------|-------|---------|--------|----------|------------------|

## Persil Professional Non Bio Capsules

|   |      | (mg/l)            |                           |                  | time     |  |
|---|------|-------------------|---------------------------|------------------|----------|--|
| benzenesulphonic acid, mono-C10-13-alkyl derivs., compds. with ethanolamine |      | No data available |                           |                  |          |  |
| propane-1,2-diol  | NOEC | 13020             | <i>Ceriodaphnia dubia</i> | Method not given | 7 day(s) |  |
| alkyl alcohol ethoxylate  |      | No data available |                           |                  |          |  |
| glycerol  |      | 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 |
|---|----------|---------------------------|---------|--------|----------------------|------------------|
| benzenesulphonic acid, mono-C10-13-alkyl derivs., compds. with ethanolamine |          | No data available         |         |        |                      |                  |
| propane-1,2-diol  |          | No data available         |         |        | -                    |                  |
| alkyl alcohol ethoxylate  |          | No data available         |         |        |                      |                  |
| glycerol  |          | 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 |
|------------------|----------|-----------------------|---------|--------|----------------------|------------------|
| propane-1,2-diol |          | No data available     |         |        | -                    |                  |
| glycerol         |          | No data available     |         |        | -                    |                  |

Terrestrial toxicity - plants, if available:

| Ingredient(s)    | Endpoint | Value (mg/kg dw soil) | Species | Method | Exposure time (days) | Effects observed |
|------------------|----------|-----------------------|---------|--------|----------------------|------------------|
| propane-1,2-diol |          | No data available     |         |        | -                    |                  |
| glycerol         |          | No data available     |         |        | -                    |                  |

Terrestrial toxicity - birds, if available:

| Ingredient(s)    | Endpoint | Value             | Species | Method | Exposure time (days) | Effects observed |
|------------------|----------|-------------------|---------|--------|----------------------|------------------|
| propane-1,2-diol |          | No data available |         |        | -                    |                  |
| glycerol         |          | No data available |         |        | -                    |                  |

Terrestrial toxicity - beneficial insects, if available:

| Ingredient(s)    | Endpoint | Value (mg/kg dw soil) | Species | Method | Exposure time (days) | Effects observed |
|------------------|----------|-----------------------|---------|--------|----------------------|------------------|
| propane-1,2-diol |          | No data available     |         |        | -                    |                  |
| glycerol         |          | No data available     |         |        | -                    |                  |

Terrestrial toxicity - soil bacteria, if available:

| Ingredient(s)    | Endpoint | Value (mg/kg dw soil) | Species | Method | Exposure time (days) | Effects observed |
|------------------|----------|-----------------------|---------|--------|----------------------|------------------|
| propane-1,2-diol |          | No data available     |         |        | -                    |                  |
| glycerol         |          | No data 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            |
|---|----------|-------------------|------------------|-----------|-----------------------|
| benzenesulphonic acid, mono-C10-13-alkyl derivs., compds. with ethanolamine |          |                   |                  |           | No data available     |
| propane-1,2-diol  |          |                   | > 70 % in 28     | OECD 301A | Readily biodegradable |

## Persil Professional Non Bio Capsules

|                          |  |  |                  |                  |                       |
|--------------------------|--|--|------------------|------------------|-----------------------|
|                          |  |  | day(s)           |                  |                       |
| alkyl alcohol ethoxylate |  |  |                  |                  | Readily biodegradable |
| glycerol                 |  |  | 60% in 28 day(s) | Method not given | Readily biodegradable |

Ready biodegradability - anaerobic and marine conditions, if available:

Degradation in relevant environmental compartments, if available:

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.

## 12.3 Bioaccumulative potential

Partition coefficient n-octanol/water (log Kow)

| Ingredient(s)   | Value             | Method           | Evaluation                  | Remark |
|---|-------------------|------------------|-----------------------------|--------|
| benzenesulphonic acid, mono-C10-13-alkyl derivs., compds. with ethanolamine | No data available |                  |                             |        |
| propane-1,2-diol  | -1.07             | Method not given | No bioaccumulation expected |        |
| alkyl alcohol ethoxylate  | No data available |                  |                             |        |
| glycerol  | -1.76             | Method not given | No bioaccumulation expected |        |

Bioconcentration factor (BCF)

| Ingredient(s)   | Value             | Species | Method | Evaluation | Remark |
|---|-------------------|---------|--------|------------|--------|
| benzenesulphonic acid, mono-C10-13-alkyl derivs., compds. with ethanolamine | No data available |         |        |            |        |
| propane-1,2-diol  | No data available |         |        |            |        |
| alkyl alcohol ethoxylate  | No data available |         |        |            |        |
| glycerol  | 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                                       |
|---|--------------------------------|-------------------------------------|--------|--------------------|--|
| benzenesulphonic acid, mono-C10-13-alkyl derivs., compds. with ethanolamine | No data available              |                                     |        |                    |  |
| propane-1,2-diol  | No data available              |                                     |        |                    | Potential for mobility in soil, soluble in water |
| alkyl alcohol ethoxylate  | No data available              |                                     |        |                    | Potential for mobility in soil, soluble in water |
| glycerol  | No data available              |                                     |        |                    | Potential for mobility in soil, soluble in water |

## 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

ADR, RID, ADN, IMO/IMDG, ICAO/IATA

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 73/78 and the IBC Code: The product is not transported in bulk tankers.

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

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 | 15 - 30% |
| phosphonates                                     | < 5%     |
| perfumes, optical brighteners                    |          |

**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: MSDS6235

Version: 04.0

Revision: 2015-04-21

**Reason for revision:**

Overall design adjusted in accordance with Amendment 453/2010, Annex II of Regulation (EC) No 1907/2006, This data sheet contains changes from the previous version in section(s): 3, 8, 15

**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 R, H and EUH phrases mentioned in section 3:**

- H302 - Harmful if swallowed.
- H315 - Causes skin irritation.
- H318 - Causes serious eye damage.
- H400 - Very toxic to aquatic life.
- H411 - Toxic to aquatic life with long lasting effects.
- R22 - Harmful if swallowed.
- R38 - Irritating to skin.
- R41 - Risk of serious damage to eyes.
- R50 - Very toxic to aquatic organisms.

**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**