



## PERSIL SENSITIVE LAUNDRY POWDER

Revision: 2019-06-20

Version: 01.1

### SECTION 1: Identification of the substance/mixture and supplier

#### 1.1 Product identifier

**Product name:** PERSIL SENSITIVE LAUNDRY POWDER

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#### 1.2 Recommended use and restrictions on use

**Identified uses:**

Laundry powder

**Restrictions of use:**

Uses other than those identified are not recommended

#### 1.3 Details of the supplier

DIVERSEY NEW ZEALAND LTD.

24 Bancroft Crescent, Glendene, Auckland, 0602, New Zealand

Telephone: 0800 803 615 (toll free)

Website: [www.diversey.com](http://www.diversey.com)

#### 1.4 Emergency telephone number

Seek medical advice (show the label or safety data sheet where possible)

Call 0800 243 622 (24 hrs)

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

##### HSNO Classification

6.1E - Acutely toxic (oral)

6.3A - Irritating to the skin

8.3A - Corrosive to ocular tissue

9.1D - Slightly harmful to the aquatic environment or are otherwise designed for biocidal action

##### GHS Equivalent Classification

Acute toxicity, oral, Category 5

Skin irritation, Category 2

Serious eye damage, Category 1

Acute aquatic toxicity, Category 3

#### 2.2 Label elements



**Signal word:** Danger

##### Hazard statements:

H303 - May be harmful if swallowed.

H315 - Causes skin irritation.

H318 - Causes serious eye damage.

H402 - Harmful to aquatic life.

##### Prevention statement(s):

P233 - Keep container tightly closed.

P264 - Wash face, hands and any exposed skin thoroughly after handling.

P280 - Wear protective gloves, protective clothing and eye or face protection.

##### Response statement(s):

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

P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.

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P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P310 - Immediately call a POISON CENTRE, doctor or physician.  
 P321 - Specific treatment (see supplemental first aid instructions on this label).  
 P362 - Take off contaminated clothing.

**Disposal statement(s):**

P501 - Dispose of unused content as chemical waste.

**2.3 Other hazards**

No other hazards known.

**SECTION 3: Composition/information on ingredients****3.1 Substances / Mixtures**

| Ingredient(s)                 | CAS number | EC number | Weight percent |
|-------------------------------|------------|-----------|----------------|
| sodium carbonate              | 497-19-8   | 207-838-8 | 10-30          |
| sodium alkylbenzenesulphonate | 68411-30-3 | 270-115-0 | 10-30          |
| sodium silicate               | 1344-09-8  | 215-687-4 | 3-10           |
| Alcohols, C12-18, ethoxylated | 68213-23-0 | 500-201-8 | 1-3            |
| starch                        | 9005-25-8  | 232-679-6 | 1-3            |

[4] Polymer.

Non-hazardous ingredients are the remainder and add up to 100%.

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

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

|  |   |
|--|---|
| <b>Inhalation:</b>                     | Remove person to fresh air and keep comfortable for breathing. 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. Immediately call a POISON CENTRE, doctor or physician. |
| <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.  |
| <b>First aid facilities:</b>           | Eyewash facilities should be considered in a workplace where necessary.   |

**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> | Causes irritation.                          |
| <b>Eye contact:</b>  | Causes severe or permanent damage.          |
| <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.

**Poison Information Center:** Call 0800 764 766 (0800 POISON)

**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.

**5.4 Hazchem code**

*None allocated*

**SECTION 6: Accidental release measures**

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

Wear suitable protective clothing, gloves and eye/face protection.

**6.2 Environmental precautions**

Do not allow to enter drainage system, surface or ground water. Do not allow to enter the ground/soil. 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**

Collect mechanically. Do not place spilled materials back into the original container. Collect in closed and suitable containers for disposal.

**6.4 Reference to other sections**

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

**SECTION 7: Handling and storage****7.1 Precautions for safe handling****Measures to prevent fire and explosions:**

No special precautions required.

**Measures required to protect the environment:**

For environmental exposure controls see subsection 8.2.

**Advices on general occupational hygiene:**

Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs. Do not mix with other products unless advised by Diversey. Wash face, hands and any exposed skin thoroughly after handling. Take off contaminated clothing. Wash contaminated clothing before reuse. Avoid contact with eyes. 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. 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) | Long term value(s)   | Short term value(s) | Ceiling value(s) |
|---------------|----------------------|---------------------|------------------|
| starch        | 10 mg/m <sup>3</sup> |                     |                  |

Biological limit values, if 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:*

**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 or goggles (EN 166).

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

**Body protection:**

Wear chemical-resistant clothing and boots in case direct dermal exposure and/or splashes may occur (EN ISO 13982-1).

**Respiratory protection:**

No special requirements under normal use conditions.

**Environmental exposure controls:**

No special requirements under normal use conditions.

## PERSIL SENSITIVE LAUNDRY POWDER

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

|   | <b>Method / remark</b>                         |
|---|--|
| <b>Physical State:</b> Solid  |  |
| <b>Appearance:</b> Powder   |  |
| <b>Colour:</b> White  |  |
| <b>Odour:</b> Perfumed  |  |
| <b>Odour threshold:</b> Not applicable  |  |
| <b>pH:</b> Not applicable.  |  |
| <b>Dilution pH:</b> ≈ 11 (1%)   | 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   | Not applicable to solids or gases              |
| <b>Flammability (liquid):</b> Not applicable.   |  |
| <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 determined  |  |
| <b>Upper/lower flammability limit (%):</b> Not determined   |  |
| <b>Vapour pressure:</b> Not determined  |  |
| <b>Vapour density:</b> Not determined   | Not relevant to classification of this product |
| <b>Relative density:</b> ≈ 0.725 (20 °C)  | OECD 109 (EU A.3)                              |
| <b>Solubility in / Miscibility with Water:</b> Soluble  |  |
| <b>Partition coefficient: n-octanol/water</b> No information available.<br>Substance data, partition coefficient n-octanol/water (log Kow): see subsection 12.3 |  |
| <b>Autoignition temperature:</b> Not determined   |  |
| <b>Decomposition temperature:</b> Not applicable.   |  |
| <b>Viscosity:</b> Not determined  | Not applicable to solids or gases              |
| <b>Explosive properties:</b> Not explosive.   |  |
| <b>Oxidising properties:</b> Not oxidising  |  |
| <b>9.2 Other information</b>  |  |
| <b>Surface tension (N/m):</b> Not determined  |  |
| <b>Corrosion to metals:</b> Not determined  | Not applicable to solids or gases              |

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

No reactivity hazards known under normal storage and use conditions.

**10.2 Chemical stability**

Stable under normal storage and use conditions.

**10.3 Possibility of hazardous reactions**

No hazardous reactions known under normal storage and use conditions.

**10.4 Conditions to avoid**

None known under normal storage and use conditions.

**10.5 Incompatible materials**

Reacts with acids.

**10.6 Hazardous decomposition products**

None known under normal storage and use conditions.

**SECTION 11: Toxicological information****11.1 Information on toxicological effects**

Mixture data:

**Relevant calculated ATE(s):**

ATE - Oral (mg/kg): 4000

ATE - Dermal (mg/kg): >5000

ATE - Inhalatory, mists (mg/l): >5

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

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**Acute toxicity**

## Acute oral toxicity

| Ingredient(s)                 | Endpoint         | Value (mg/kg)     | Species | Method            | Exposure time (h) |
|-------------------------------|------------------|-------------------|---------|-------------------|-------------------|
| sodium carbonate              | LD <sub>50</sub> | 2800              | Rat     | Method not given  |                   |
| sodium alkylbenzenesulphonate | LD <sub>50</sub> | 1080              | Rat     | OECD 401 (EU B.1) |                   |
| sodium silicate               | LD <sub>50</sub> | 3400              | Rat     | Method not given  |                   |
| Alcohols, C12-18, ethoxylated |                  | 1000              | Rat     |                   |                   |
| starch                        |                  | No data available |         |                   |                   |

## Acute dermal toxicity

| Ingredient(s)                 | Endpoint         | Value (mg/kg)     | Species | Method            | Exposure time (h) |
|-------------------------------|------------------|-------------------|---------|-------------------|-------------------|
| sodium carbonate              | LD <sub>50</sub> | > 2000            | Rabbit  | Method not given  |                   |
| sodium alkylbenzenesulphonate | LD <sub>50</sub> | > 2000            | Rat     | OECD 402 (EU B.3) |                   |
| sodium silicate               | LD <sub>50</sub> | > 5000            | Rat     | Method not given  |                   |
| Alcohols, C12-18, ethoxylated |                  | > 2000            |         |                   |                   |
| starch                        |                  | No data available |         |                   |                   |

## Acute inhalative toxicity

| Ingredient(s)                 | Endpoint         | Value (mg/l)                 | Species | Method             | Exposure time (h) |
|-------------------------------|------------------|------------------------------|---------|--------------------|-------------------|
| sodium carbonate              | LC <sub>50</sub> | > 2.3 (dust)                 |         | Weight of evidence | 2                 |
| sodium alkylbenzenesulphonate |                  | No data available            |         |                    |                   |
| sodium silicate               | LC <sub>50</sub> | > 2.06 No mortality observed | Rat     | Non guideline test |                   |
| Alcohols, C12-18, ethoxylated |                  | > 5                          |         |                    |                   |
| starch                        |                  | No data available            |         |                    |                   |

**Irritation and corrosivity**

## Skin irritation and corrosivity

| Ingredient(s)                 | Result            | Species | Method            | Exposure time |
|-------------------------------|-------------------|---------|-------------------|---------------|
| sodium carbonate              | Not irritant      | Rabbit  | OECD 404 (EU B.4) |               |
| sodium alkylbenzenesulphonate | Irritant          | Rabbit  | OECD 404 (EU B.4) |               |
| sodium silicate               | Irritant          |         | Method not given  |               |
| Alcohols, C12-18, ethoxylated | No data available |         |                   |               |
| starch                        | No data available |         |                   |               |

## Eye irritation and corrosivity

| Ingredient(s)                 | Result            | Species | Method            | Exposure time |
|-------------------------------|-------------------|---------|-------------------|---------------|
| sodium carbonate              | Irritant          | Rabbit  | Method not given  |               |
| sodium alkylbenzenesulphonate | Corrosive         | Rabbit  | OECD 405 (EU B.5) |               |
| sodium silicate               | Severe damage     |         | Method not given  |               |
| Alcohols, C12-18, ethoxylated | No data available |         |                   |               |
| starch                        | No data available |         |                   |               |

## Respiratory tract irritation and corrosivity

| Ingredient(s)                 | Result                              | Species | Method           | Exposure time |
|-------------------------------|-------------------------------------|---------|------------------|---------------|
| sodium carbonate              | No data available                   |         |                  |               |
| sodium alkylbenzenesulphonate | Not irritating to respiratory tract |         |                  |               |
| sodium silicate               | Irritating to respiratory tract     |         | Method not given |               |
| Alcohols, C12-18, ethoxylated | No data available                   |         |                  |               |
| starch                        | No data available                   |         |                  |               |

**Sensitisation**

## Sensitisation by skin contact

| Ingredient(s)                 | Result            | Species    | Method                   | Exposure time (h) |
|-------------------------------|-------------------|------------|--------------------------|-------------------|
| sodium carbonate              | Not sensitising   |            | Method not given         |                   |
| sodium alkylbenzenesulphonate | Not sensitising   | Guinea pig | OECD 406 (EU B.6) / GPMT |                   |
| sodium silicate               | Not sensitising   |            | Method not given         |                   |
| Alcohols, C12-18, ethoxylated | No data available |            |                          |                   |
| starch                        | No data available |            |                          |                   |

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## Sensitisation by inhalation

| Ingredient(s)                 | Result            | Species | Method | Exposure time |
|-------------------------------|-------------------|---------|--------|---------------|
| sodium carbonate              | No data available |         |        |               |
| sodium alkylbenzenesulphonate | No data available |         |        |               |
| sodium silicate               | No data available |         |        |               |
| Alcohols, C12-18, ethoxylated | No data available |         |        |               |
| starch                        | 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) |
|-------------------------------|---|---|-------------------|------------------|
| sodium carbonate              | No data available                                   |   | No data available |                  |
| sodium alkylbenzenesulphonate | No evidence for mutagenicity, negative test results | OECD 471 (EU B.12/13) OECD 476 OECD 473 | No data available |                  |
| sodium silicate               | No evidence for mutagenicity, negative test results |   | No data available |                  |
| Alcohols, C12-18, ethoxylated | No data available                                   |   | No data available |                  |
| starch                        | No data available                                   |   | No data available |                  |

## Carcinogenicity

| Ingredient(s)                 | Effect   |
|-------------------------------|--|
| sodium carbonate              | No evidence for carcinogenicity, weight-of-evidence    |
| sodium alkylbenzenesulphonate | No data available                                      |
| sodium silicate               | No evidence for carcinogenicity, negative test results |
| Alcohols, C12-18, ethoxylated | No data available                                      |
| starch                        | 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               |
|-------------------------------|----------|---------------------|--------------------|---------|--------------------|---------------|--|
| sodium carbonate              |          |                     | No data available  |         |                    |               |  |
| sodium alkylbenzenesulphonate | NOAEL    | Teratogenic effects | 300                | Rat     | Non guideline test |               | No known significant effects or critical hazards |
| sodium silicate               |          |                     | No data available  |         |                    |               | No evidence for reproductive toxicity            |
| Alcohols, C12-18, ethoxylated |          |                     | No data available  |         |                    |               |  |
| starch                        |          |                     | 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 |
|-------------------------------|----------|--------------------|---------|------------------|----------------------|--------------------------------------|
| sodium carbonate              |          | No data available  |         |                  |                      |                                      |
| sodium alkylbenzenesulphonate |          | No data available  |         |                  |                      |                                      |
| sodium silicate               | NOAEL    | > 159              | Rat     | Method not given | 180                  | No effects observed                  |
| Alcohols, C12-18, ethoxylated |          | No data available  |         |                  |                      |                                      |
| starch                        |          | 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 |
|-------------------------------|----------|--------------------|---------|--------|----------------------|--------------------------------------|
| sodium carbonate              |          | No data available  |         |        |                      |                                      |
| sodium alkylbenzenesulphonate |          | No data available  |         |        |                      |                                      |
| sodium silicate               |          | No data available  |         |        |                      |                                      |
| Alcohols, C12-18, ethoxylated |          | No data available  |         |        |                      |                                      |
| starch                        |          | 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 |
|------------------|----------|--------------------|---------|--------|----------------------|--------------------------------------|
| sodium carbonate |          | No data available  |         |        |                      |                                      |

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|                               |  |                   |  |  |  |  |
|-------------------------------|--|-------------------|--|--|--|--|
| sodium alkylbenzenesulphonate |  | No data available |  |  |  |  |
| sodium silicate               |  | No data available |  |  |  |  |
| Alcohols, C12-18, ethoxylated |  | No data available |  |  |  |  |
| starch                        |  | 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 |
|-------------------------------|----------------|----------|--------------------|---------|--------|---------------|--------------------------------------|--------|
| sodium carbonate              |                |          | No data available  |         |        |               |                                      |        |
| sodium alkylbenzenesulphonate |                |          | No data available  |         |        |               |                                      |        |
| sodium silicate               |                |          | No data available  |         |        |               |                                      |        |
| Alcohols, C12-18, ethoxylated |                |          | No data available  |         |        |               |                                      |        |
| starch                        |                |          | No data available  |         |        |               |                                      |        |

## STOT-single exposure

| Ingredient(s)                 | Affected organ(s) |
|-------------------------------|-------------------|
| sodium carbonate              | No data available |
| sodium alkylbenzenesulphonate | No data available |
| sodium silicate               | No data available |
| Alcohols, C12-18, ethoxylated | No data available |
| starch                        | No data available |

## STOT-repeated exposure

| Ingredient(s)                 | Affected organ(s) |
|-------------------------------|-------------------|
| sodium carbonate              | No data available |
| sodium alkylbenzenesulphonate | No data available |
| sodium silicate               | Not applicable    |
| Alcohols, C12-18, ethoxylated | No data available |
| starch                        | 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) |
|-------------------------------|------------------|-----------------------------|----------------------------|--------------------|-------------------|
| sodium carbonate              | LC <sub>50</sub> | 300                         | <i>Lepomis macrochirus</i> | Method not given   | 96                |
| sodium alkylbenzenesulphonate | LC <sub>50</sub> | 1.67                        | Fish                       | EPA-OPPTS 850.1075 | 96                |
| sodium silicate               | LC <sub>50</sub> | 1108                        | <i>Brachydanio rerio</i>   | Method not given   | 96                |
| Alcohols, C12-18, ethoxylated |                  | 10-100 [Not a valid number] |                            |                    |                   |
| starch                        |                  | No data available           |                            |                    |                   |

Aquatic short-term toxicity - crustacea

| Ingredient(s)                 | Endpoint         | Value (mg/l) | Species                     | Method            | Exposure time (h) |
|-------------------------------|------------------|--------------|-----------------------------|-------------------|-------------------|
| sodium carbonate              | EC <sub>50</sub> | 265          | <i>Daphnia magna</i> Straus | Method not given  | 96                |
| sodium alkylbenzenesulphonate | LC <sub>50</sub> | 2.9          | <i>Daphnia</i>              | OECD 202 (EU C.2) | 48                |
| sodium silicate               | EC <sub>50</sub> | 1700         | <i>Daphnia magna</i> Straus | Method not given  | 48                |

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|                               |  |                             |  |  |  |
|-------------------------------|--|-----------------------------|--|--|--|
| Alcohols, C12-18, ethoxylated |  | 10-100 [Not a valid number] |  |  |  |
| starch                        |  | No data available           |  |  |  |

## Aquatic short-term toxicity - algae

| Ingredient(s)                 | Endpoint                       | Value (mg/l)                | Species                        | Method             | Exposure time (h) |
|-------------------------------|--------------------------------|-----------------------------|--------------------------------|--------------------|-------------------|
| sodium carbonate              |                                | No data available           |                                |                    | -                 |
| sodium alkylbenzenesulphonate | E <sub>b</sub> C <sub>50</sub> | 47.3                        | <i>Not specified</i>           | Non guideline test | 72                |
| sodium silicate               | EC <sub>50</sub>               | 207                         | <i>Desmodesmus subspicatus</i> | Method not given   | 72                |
| Alcohols, C12-18, ethoxylated |                                | 10-100 [Not a valid number] |                                |                    |                   |
| starch                        |                                | No data available           |                                |                    |                   |

## Aquatic short-term toxicity - marine species

| Ingredient(s)                 | Endpoint | Value (mg/l)      | Species | Method | Exposure time (days) |
|-------------------------------|----------|-------------------|---------|--------|----------------------|
| sodium carbonate              |          | No data available |         |        | -                    |
| sodium alkylbenzenesulphonate |          | No data available |         |        |                      |
| sodium silicate               |          | No data available |         |        | -                    |
| Alcohols, C12-18, ethoxylated |          | No data available |         |        |                      |
| starch                        |          | No data available |         |        |                      |

## Impact on sewage plants - toxicity to bacteria

| Ingredient(s)                 | Endpoint         | Value (mg/l)      | Inoculum        | Method   | Exposure time |
|-------------------------------|------------------|-------------------|-----------------|----------|---------------|
| sodium carbonate              |                  | No data available |                 |          |               |
| sodium alkylbenzenesulphonate | EC <sub>50</sub> | 550               | <i>Bacteria</i> | OECD 209 | 3 hour(s)     |
| sodium silicate               |                  | No data available |                 |          |               |
| Alcohols, C12-18, ethoxylated |                  | No data available |                 |          |               |
| starch                        |                  | No data available |                 |          |               |

## Aquatic long-term toxicity

## Aquatic long-term toxicity - fish

| Ingredient(s)                 | Endpoint | Value (mg/l)      | Species                    | Method           | Exposure time | Effects observed |
|-------------------------------|----------|-------------------|----------------------------|------------------|---------------|------------------|
| sodium carbonate              |          | No data available |                            |                  |               |                  |
| sodium alkylbenzenesulphonate | NOEC     | 0.23              | <i>Oncorhynchus mykiss</i> | Method not given | 72 day(s)     |                  |
| sodium silicate               | NOEC     | 348               | <i>Brachydanio rerio</i>   | Method not given | 96 hour(s)    |                  |
| Alcohols, C12-18, ethoxylated |          | No data available |                            |                  |               |                  |
| starch                        |          | No data available |                            |                  |               |                  |

## Aquatic long-term toxicity - crustacea

| Ingredient(s)                 | Endpoint | Value (mg/l)      | Species              | Method   | Exposure time | Effects observed |
|-------------------------------|----------|-------------------|----------------------|----------|---------------|------------------|
| sodium carbonate              |          | No data available |                      |          |               |                  |
| sodium alkylbenzenesulphonate | NOEC     | 1.41              | <i>Daphnia magna</i> | OECD 211 |               |                  |
| sodium silicate               |          | No data available |                      |          |               |                  |
| Alcohols, C12-18, ethoxylated |          | No data available |                      |          |               |                  |
| starch                        |          | 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 |
|-------------------------------|----------|---------------------------|---------|--------|----------------------|------------------|
| sodium carbonate              |          | No data available         |         |        | -                    |                  |
| sodium alkylbenzenesulphonate |          | No data available         |         |        |                      |                  |



## PERSIL SENSITIVE LAUNDRY POWDER

|                               |  |                   |  |  |   |  |
|-------------------------------|--|-------------------|--|--|---|--|
|                               |  | available         |  |  |   |  |
| sodium silicate               |  | No data available |  |  | - |  |
| Alcohols, C12-18, ethoxylated |  | No data available |  |  |   |  |
| starch                        |  | No data available |  |  |   |  |

**Terrestrial toxicity**

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

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

Terrestrial toxicity - plants, if available:

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

Terrestrial toxicity - birds, if available:

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

Terrestrial toxicity - beneficial insects, if available:

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

Terrestrial toxicity - soil bacteria, if available:

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

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

Abiotic degradation - photodegradation in air, if available:

Abiotic degradation - hydrolysis, if available:

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

Abiotic degradation - other processes, if available:

**Biodegradation**

Ready biodegradability - aerobic conditions

| Ingredient(s)                 | Inoculum                 | Analytical method          | DT <sub>50</sub>  | Method    | Evaluation                           |
|-------------------------------|--------------------------|----------------------------|-------------------|-----------|--------------------------------------|
| sodium carbonate              |                          |                            |                   |           | Not applicable (inorganic substance) |
| sodium alkylbenzenesulphonate | Activated sludge, aerobe | CO <sub>2</sub> production | 85 % in 28 day(s) | OECD 301B | Readily biodegradable                |
| sodium silicate               |                          |                            |                   |           | Not applicable (inorganic substance) |
| Alcohols, C12-18, ethoxylated |                          |                            |                   | OECD 301F | Readily biodegradable                |
| starch                        |                          |                            |                   |           | Readily biodegradable                |

Ready biodegradability - anaerobic and marine conditions, if available:

## PERSIL SENSITIVE LAUNDRY POWDER

Degradation in relevant environmental compartments, if available:

**12.3 Bioaccumulative potential**

Partition coefficient n-octanol/water (log Kow)

| Ingredient(s)                 | Value             | Method           | Evaluation                        | Remark |
|-------------------------------|-------------------|------------------|-----------------------------------|--------|
| sodium carbonate              | No data available |                  | No bioaccumulation expected       |        |
| sodium alkylbenzenesulphonate | 3.32              | Method not given | Low potential for bioaccumulation |        |
| sodium silicate               | No data available |                  | Low potential for bioaccumulation |        |
| Alcohols, C12-18, ethoxylated | -                 |                  | No bioaccumulation expected       |        |
| starch                        | No data available |                  |                                   |        |

Bioconcentration factor (BCF)

| Ingredient(s)                 | Value             | Species | Method           | Evaluation                         | Remark |
|-------------------------------|-------------------|---------|------------------|------------------------------------|--------|
| sodium carbonate              | No data available |         |                  | No bioaccumulation expected        |        |
| sodium alkylbenzenesulphonate | 2-1000            |         | Method not given | High potential for bioaccumulation |        |
| sodium silicate               | No data available |         |                  |                                    |        |
| Alcohols, C12-18, ethoxylated | No data available |         |                  |                                    |        |
| starch                        | 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                                       |
|-------------------------------|--------------------------------|-------------------------------------|--------|--------------------|--|
| sodium carbonate              | No data available              |                                     |        |                    | Potential for mobility in soil, soluble in water |
| sodium alkylbenzenesulphonate | No data available              |                                     |        |                    |  |
| sodium silicate               | No data available              |                                     |        |                    |  |
| Alcohols, C12-18, ethoxylated | No data available              |                                     |        |                    |  |
| starch                        | No data available              |                                     |        |                    |  |

**12.5 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.

**Empty packaging**

**Recommendation:**

Dispose of observing national or local regulations.

**SECTION 14: Transport information**

**ADG, 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

**14.4 Packing group:** Non-dangerous goods

**14.5 Environmental hazards:** Non-dangerous goods

**Environmentally hazardous:** No

**Marine pollutant:** No

**14.6 Special precautions for user:** Non-dangerous goods

**14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code:** The product is not transported in bulk tankers.

Non-dangerous goods

**Other relevant information:**

**Hazchem code:** None allocated

This product has been classified, labelled and package in accordance with the requirements of the NZ Land Transport Rule: Dangerous Goods, ADG, and the provisions of the IMDG Code.

Transport regulations include special provisions for certain classes of dangerous goods packed in limited quantities.

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

**HSNO Approval Number**  
**Group standard**

HSR002530.  
Cleaning Products (Subsidiary Hazard) Group Standard 2017

**PERSIL SENSITIVE LAUNDRY POWDER****Inventory Listing(s)**

New Zealand: NZIoC (New Zealand Inventory of Chemicals)  
All components are listed on the NZIoC inventory, or are exempt

**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:** MS32000524**Version:** 01.1**Revision:** 2019-06-20

**Exposure standards - Time Weighted Average (TWA) or Workplace Exposure Standard (WES) (NZ):** Exposure standards are established on the premise of an 8 hour work period of normal intensity, under normal climatic conditions and where a 16 hour break between shifts exists to enable the body to eliminate absorbed contaminants. In the following circumstances, exposure standards must be reduced: strenuous work conditions; hot, humid climates; high altitude conditions; extended shifts (which increase the exposure period and shorten the period of recuperation).

**Abbreviations and acronyms:**

- DNEL - Derived No Effect Limit
- AUH - GHS Specific hazard statement
- PNEC - Predicted No Effect Concentration
- 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
- STOT-RE - Specific target organ toxicity (repeated exposure)
- STOT-SE - Specific target organ toxicity (single exposure)
- EC No. - European Community Number
- OECD - Organization for Economic Cooperation and Development

**End of Safety Data Sheet**