



**Revision:** 2019-09-15 **Version:** 01.0

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

#### 1.1 Product identifier

Trade name: Persil Professional Hygiene

Persil is a registered trade mark and is used under licence of Unilever

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

Identified uses:

AISE-P102 - Laundry detergent. Semi-automatic process

AISE-P103 - Laundry detergent. Manual process

AISE-P810 - Disinfection product. Semi-automatic process AISE-C1 - Laundry regular (powder, liquid) for consumer use

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

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

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

#### **Contact details**

Diversey Ltd

Weston Favell Centre, Northampton NN3 8PD, United Kingdom

Tel: 01604 405311, Fax: 01604 406809

Regulatory Email: customerservice.uk@diversey.com

#### 1.4 Emergency telephone number

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

For medical or environmental emergency only:

call 0800 052 0185

## **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

Eye Irrit. 2 (H319)

#### 2.2 Label elements



Signal word: Warning

#### Hazard statements:

H319 - Causes serious eye irritation.

#### Precautionary statements:

P101 - If medical advice is needed, have product container or label at hand.

P102 - Keep out of reach of children.

P501 - Dispose of unused content as chemical waste.

#### 2.3 Other hazards

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

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

#### 3.2 Mixtures

| Ingredient(s)    | EC number | CAS number | REACH number     | Classification      | Notes | Weight percent |
|------------------|-----------|------------|------------------|---------------------|-------|----------------|
| sodium carbonate | 207-838-8 | 497-19-8   | 01-2119485498-19 | Eye Irrit. 2 (H319) |       | 20-30          |

| sodium percarbonate           | 239-707-6 | 15630-89-4 | 01-2119457268-30 | Ox. Sol. 2 (H272)<br>Acute Tox. 4 (H302)<br>Eye Dam. 1 (H318)    | 10-20 |
|-------------------------------|-----------|------------|------------------|--|-------|
| sodium alkylbenzenesulphonate | 290-656-6 | [1]        | [1]              | Acute Tox. 4 (H302)<br>Skin Irrit. 2 (H315)<br>Eye Dam. 1 (H318) | 3-10  |
| alkyl alcohol ethoxylate      | [4]       | 69011-36-5 | [4]              | Acute Tox. 4 (H302)<br>Eye Dam. 1 (H318)                         | 1-3   |
| alkyl alcohol ethoxylate      | [4]       | 69011-36-5 | [4]              | Eye Dam. 1 (H318)<br>Aquatic Chronic 3<br>(H412)                 | 1-3   |
| sodium silicate               | 215-687-4 | [1]        | [1]              | STOT SE 3 (H335)<br>Skin Irrit. 2 (H315)<br>Eye Dam. 1 (H318)    | 1-3   |
| sodium silicate               | 215-687-4 | 1344-09-8  | 01-2119448725-31 | STOT SE 3 (H335)<br>Skin Irrit. 2 (H315)<br>Eye Irrit. 2 (H319)  | 1-3   |

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

- [1] Exempted: ionic mixture. See Regulation (EC) No 1907/2006, Annex V, paragraph 3 and 4. This salt is potentially present, based on calculation, and included for classification and labelling purposes only. Each starting material of the ionic mixture is registered, as required.
- [2] Exempted: included in Annex IV of Regulation (EC) No 1907/2006. [3] Exempted: Annex V of Regulation (EC) No 1907/2006.
- [4] Exempted: polymer. See Article 2(9) of Regulation (EC) No 1907/2006.
- For the full text of the H and EUH phrases mentioned in this Section, see Section 16.

#### **SECTION 4: First aid measures**

4.1 Description of first aid measures

Inhalation: Get medical attention or advice if you feel unwell.

Skin contact: Wash skin with plenty of lukewarm, gently flowing water. If skin irritation occurs: Get medical advice

or attention.

Hold eyelids apart and flush eyes with plenty of lukewarm water for at least 15 minutes. Remove Eve contact:

contact lenses, if present and easy to do. Continue rinsing. If irritation occurs and persists, get

medical attention.

Rinse mouth. Immediately drink 1 glass of water. Never give anything by mouth to an unconscious Ingestion:

person. 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: No known effects or symptoms in normal use.

Eve 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

#### 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.

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

Collect mechanically.

#### 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:

Follow general hygiene considerations recognised as common good workplace practices. Keep away from food, drink and animal feeding stuffs. Keep out of reach of children. Do not mix with other products unless adviced by Diversey. Wash face, hands and any exposed skin thoroughly after handling. Use only with adequate ventilation. See chapter 8.2, Exposure controls / Personal protection.

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

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

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

#### 7.3 Specific end use(s)

No specific advice for end use available.

#### SECTION 8: Exposure controls/personal protection

## 8.1 Control parameters Workplace exposure limits

Air limit values, if available:

Biological limit values, if available:

#### 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 |
|-------------------------------|----------------------------|-------------------------------|---------------------------|------------------------------|
| sodium carbonate              | -                          | -                             | -                         | -                            |
| sodium percarbonate           | -                          | -                             | -                         | -                            |
| sodium alkylbenzenesulphonate | No data available          | No data available             | No data available         | No data available            |
| alkyl alcohol ethoxylate      | -                          | -                             | -                         | -                            |
| alkyl alcohol ethoxylate      | -                          | -                             | =                         | -                            |
| sodium silicate               | -                          | -                             | -                         | 0.8                          |
| sodium silicate               | -                          | -                             | -                         | 0.8                          |

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) |
|-------------------------------|------------------------------|--|------------------------------|---|
| sodium carbonate              | -                            | -  | No data available            | -                                       |
| sodium percarbonate           | 12.8 mg/cm <sup>2</sup> skin | -  | 12.8 mg/cm <sup>2</sup> skin | -                                       |
| sodium alkylbenzenesulphonate | No data available            | No data available                        | No data available            | No data available                       |
| alkyl alcohol ethoxylate      | -                            | -  | -                            | -                                       |
| alkyl alcohol ethoxylate      | -                            | -  | -                            | -                                       |
| sodium silicate               | No data available            | -  | No data available            | 1.59                                    |
| sodium silicate               | No data available            | -  | No data available            | 1.59                                    |

DNEL dermal exposure - Consumer

| Ingredient(s)                 | Short term - Local effects  | Short term - Systemic effects (mg/kg bw) | Long term - Local effects   | Long term - Systemic effects (mg/kg bw) |
|-------------------------------|-----------------------------|--|-----------------------------|---|
| sodium carbonate              | No data available           | -  | No data available           | -                                       |
| sodium percarbonate           | 6.4 mg/cm <sup>2</sup> skin | -  | 6.4 mg/cm <sup>2</sup> skin | -                                       |
| sodium alkylbenzenesulphonate | No data available           | No data available                        | No data available           | No data available                       |
| alkyl alcohol ethoxylate      | -                           | -  | -                           | -                                       |
| alkyl alcohol ethoxylate      | -                           | -  | -                           | -                                       |
| sodium silicate               | No data available           | -  | No data available           | 0.8                                     |
| sodium silicate               | No data available           | -  | No data available           | 0.8                                     |

DNEL inhalatory exposure - Worker (mg/m³)

| Ingredient(s)    | Short term - Local effects | Short term - Systemic effects | Long term - Local effects | Long term - Systemic effects |
|------------------|----------------------------|-------------------------------|---------------------------|------------------------------|
| sodium carbonate | -                          | -                             | 10                        | -                            |

| sodium percarbonate           | -                 | -                 | 5                 | -                 |
|-------------------------------|-------------------|-------------------|-------------------|-------------------|
| sodium alkylbenzenesulphonate | No data available | No data available | No data available | No data available |
| alkyl alcohol ethoxylate      | -                 | -                 | -                 | No data available |
| alkyl alcohol ethoxylate      | -                 | -                 | -                 | -                 |
| sodium silicate               | -                 | -                 | -                 | 5.61              |
| sodium silicate               | -                 | -                 | -                 | 5.61              |

DNEL inhalatory exposure - Consumer (mg/m³)

| Ingredient(s)                 | Short term - Local effects | Short term - Systemic effects | Long term - Local effects | Long term - Systemic effects |
|-------------------------------|----------------------------|-------------------------------|---------------------------|------------------------------|
| sodium carbonate              | 10                         | -                             | -                         | -                            |
| sodium percarbonate           | -                          | -                             | -                         | -                            |
| sodium alkylbenzenesulphonate | No data available          | No data available             | No data available         | No data available            |
| alkyl alcohol ethoxylate      | No data available          | No data available             | -                         | -                            |
| alkyl alcohol ethoxylate      | -                          | -                             | -                         | -                            |
| sodium silicate               | -                          | -                             | -                         | 1.38                         |
| sodium silicate               | -                          | -                             | -                         | 1.38                         |

#### **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) |
|-------------------------------|-----------------------------|------------------------------|---------------------|-------------------------------|
| sodium carbonate              | -                           | -                            | -                   | -                             |
| sodium percarbonate           | 0.035                       | 0.035                        | 0.035               | 16.24                         |
| sodium alkylbenzenesulphonate | No data available           | No data available            | No data available   | No data available             |
| alkyl alcohol ethoxylate      | -                           | -                            | -                   | -                             |
| alkyl alcohol ethoxylate      | -                           | -                            | -                   | -                             |
| sodium silicate               | 7.5                         | 1                            | 7.5                 | 348                           |
| sodium silicate               | 7.5                         | 1                            | 7.5                 | 348                           |

Environmental exposure - PNEC, continued

| Ingredient(s)                 | Sediment, freshwater (mg/kg) | Sediment, marine<br>(mg/kg) | Soil (mg/kg)      | Air (mg/m³)       |
|-------------------------------|------------------------------|-----------------------------|-------------------|-------------------|
| sodium carbonate              | -                            | -                           | -                 | -                 |
| sodium percarbonate           | -                            | -                           | -                 | -                 |
| sodium alkylbenzenesulphonate | No data available            | No data available           | No data available | No data available |
| alkyl alcohol ethoxylate      | -                            | -                           | -                 | -                 |
| alkyl alcohol ethoxylate      | -                            | -                           | -                 | -                 |
| sodium silicate               | -                            | -                           | -                 | -                 |
| sodium silicate               | -                            | -                           | -                 | -                 |

#### 8.2 Exposure controls

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

Recommended safety measures for handling the undiluted product:

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

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

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

Personal protective equipment

Eye / face protection: No special requirements under normal use conditions.

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

Body protection:

Respiratory protection:

No special requirements under normal use conditions.

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 (%): 1.1

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:**No special requirements under normal use conditions.

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

Body protection:

Respiratory protection:

No special requirements under normal use conditions.

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: Solid Colour: from White to Blue Odour: Slightly perfumed Odour threshold: Not applicable

pH Not applicable.

**Dilution pH**: ≈ 11 (1%)

Melting point/freezing point (°C): Not determined Initial boiling point and boiling range (°C): Not determined ISO 4316

Not relevant to classification of this product

Not applicable to solids or gases

Substance data, boiling point

| Ingredient(s)                 | Value<br>(°C)                     | Method           | Atmospheric pressure (hPa) |
|-------------------------------|-----------------------------------|------------------|----------------------------|
| sodium carbonate              | 1600                              | Method not given | 1013                       |
| sodium percarbonate           | Product decomposes before boiling |                  |                            |
| sodium alkylbenzenesulphonate | No data available                 |                  |                            |
| alkyl alcohol ethoxylate      | > 200                             | Method not given |                            |
| alkyl alcohol ethoxylate      | No data available                 |                  |                            |
| sodium silicate               | > 100                             | Method not given |                            |
| sodium silicate               | > 100                             | Method not given |                            |

Method / remark

Flammability (liquid): Not applicable. Flash point (°C): Not applicable. Sustained combustion: Not applicable. (UN Manual of Tests and Criteria, section 32, L.2)

Evaporation rate: Not determined

Flammability (solid, gas): Not determined Upper/lower flammability limit (%): Not determined

Substance data, flammability or explosive limits, if available:

Not relevant to classification of this product

Method / remark See substance data

Substance data, vapour pressure

Vapour pressure: Not determined

| Ingredient(s)                 | Value<br>(Pa)     | Method           | Temperature<br>(°C) |
|-------------------------------|-------------------|------------------|---------------------|
| sodium carbonate              | Negligible        |                  |                     |
| sodium percarbonate           | Negligible        |                  |                     |
| sodium alkylbenzenesulphonate | No data available |                  |                     |
| alkyl alcohol ethoxylate      | Negligible        | Method not given | 20-25               |
| alkyl alcohol ethoxylate      | < 100             |                  |                     |
| sodium silicate               | No data available |                  |                     |
| sodium silicate               | No data available |                  |                     |

Method / remark

Not relevant to classification of this product

OECD 109 (EU A.3)

Vapour density: Not determined

Relative density: ≈ 0.64 (20 °C)

Solubility in / Miscibility with Water: Soluble

Substance data, solubility in water Method Ingredient(s) Value Temperature (g/l) (°C) Method not given sodium carbonate 210-215 20 sodium percarbonate 140 Method not given 20 No data available sodium alkylbenzenesulphonate 20 alkyl alcohol ethoxylate Soluble Method not given alkyl alcohol ethoxylate Partly soluble Method not given 20 sodium silicate Soluble Method not given 20 sodium silicate Soluble 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 applicable.

Not applicable to solids or gases Viscosity: Not determined

Explosive properties: Not explosive. Oxidising properties: Not oxidising.

9.2 Other information

Surface tension (N/m): Not determined Not relevant to classification of this product Corrosion to metals: Not determined Not applicable to solids or gases

Substance data, dissociation constant, if available:

| Ingredient(s)   | Value          | Method           | Temperature<br>(°C) |
|-----------------|----------------|------------------|---------------------|
| sodium silicate | 9.9 - 12 (pKa) | Method not given |                     |
| sodium silicate | 9.9 - 12 (pKa) | Method not given |                     |

### 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): >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<br>(mg/kg) | Species | Method                 | Exposure time (h) |
| sodium carbonate              | LD 50    | 2800             | Rat     | Method not given       |                   |
| sodium percarbonate           | LD 50    | 1034             | Rat     | Method not given       |                   |
| sodium alkylbenzenesulphonate | LD 50    | > 1470           | Rat     | OECD 401 (EU B.1)      |                   |
| alkyl alcohol ethoxylate      | LD 50    | > 300-2000       | Rat     | OECD 423 (EU B.1 tris) |                   |
| alkyl alcohol ethoxylate      | LD 50    | > 2000           | Rat     | OECD 423 (EU B.1 tris) |                   |
| sodium silicate               | LD 50    | 3400             | Rat     | Method not given       |                   |
| sodium silicate               | LD 50    | 3400             | Rat     | Method not given       |                   |

Acute dermal toxicity

| Ingredient(s)                 | Endpoint | Value<br>(mg/kg)     | Species | Method            | Exposure time (h) |
|-------------------------------|----------|----------------------|---------|-------------------|-------------------|
| sodium carbonate              | LD 50    | > 2000               | Rabbit  | Method not given  |                   |
| sodium percarbonate           | LD 50    | > 2000               | Rabbit  | OECD 402 (EU B.3) |                   |
| sodium alkylbenzenesulphonate |          | No data<br>available |         |                   |                   |
| alkyl alcohol ethoxylate      | LD 50    | > 2000               | Rabbit  | Method not given  |                   |

| alkyl alcohol ethoxylate | LD 50 | > 2000 | Rat | Method not given |  |
|--------------------------|-------|--------|-----|------------------|--|
| sodium silicate          | LD 50 | > 5000 | Rat | Method not given |  |
| sodium silicate          | LD 50 | > 5000 | Rat | Method not given |  |

Acute inhalative toxicity

| Ingredient(s)                 | Endpoint | Value<br>(mg/l)                    | Species | Method             | Exposure time (h) |
|-------------------------------|----------|------------------------------------|---------|--------------------|-------------------|
| sodium carbonate              | LC 50    | > 2.3 (dust)                       |         | Weight of evidence | 2                 |
| sodium percarbonate           |          | No data<br>available               |         |                    |                   |
| sodium alkylbenzenesulphonate |          | No data<br>available               |         |                    |                   |
| alkyl alcohol ethoxylate      |          | No data<br>available               |         |                    |                   |
| alkyl alcohol ethoxylate      |          | No data<br>available               |         |                    |                   |
| sodium silicate               | LC 50    | > 2.06 No<br>mortality<br>observed | Rat     | Non guideline test |                   |
| sodium silicate               |          | No mortality observed              | Rat     | Method not given   | 4                 |

# 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 percarbonate           | Not irritant      | Rabbit  | Method not given                         |               |
| sodium alkylbenzenesulphonate | No data available |         |  |               |
| alkyl alcohol ethoxylate      | Not irritant      | Rabbit  | OECD 404 (EU B.4)                        |               |
| alkyl alcohol ethoxylate      | Not irritant      | Rabbit  | Weight of evidence<br>Non guideline test |               |
| sodium silicate               | Irritant          |         | Method not given                         |               |
| sodium silicate               | Irritant          |         | Method not given                         |               |

Eye irritation and corrosivity

| Ingredient(s)                 | Result            | Species | Method                                   | Exposure time |
|-------------------------------|-------------------|---------|--|---------------|
| sodium carbonate              | Irritant          | Rabbit  | Method not given                         |               |
| sodium percarbonate           | Severe damage     | Rabbit  | EPA OPP 81-4                             |               |
| sodium alkylbenzenesulphonate | No data available |         |  |               |
| alkyl alcohol ethoxylate      | Severe damage     | Rabbit  | Method not given                         |               |
| alkyl alcohol ethoxylate      | Severe damage     | Rabbit  | Weight of evidence<br>Non guideline test |               |
| sodium silicate               | Severe damage     | -       | Method not given                         |               |
| sodium silicate               | Severe damage     |         | Method not given                         |               |

Respiratory tract irritation and corrosivity

| Ingredient(s)                 | Result                             | Species | Method           | Exposure time |
|-------------------------------|------------------------------------|---------|------------------|---------------|
| sodium carbonate              | No data available                  |         |                  |               |
| sodium percarbonate           | Irritating to<br>respiratory tract | Mouse   | Method not given |               |
| sodium alkylbenzenesulphonate | No data available                  |         |                  |               |
| alkyl alcohol ethoxylate      | No data available                  |         |                  |               |
| alkyl alcohol ethoxylate      | No data available                  |         |                  |               |
| sodium silicate               | Irritating to respiratory tract    |         | Method not given |               |
| sodium silicate               | Irritating to<br>respiratory tract |         | Method not given |               |

#### Sensitisation

| Sensitisation by skin contact |                   |            |                                     |                   |
|-------------------------------|-------------------|------------|-------------------------------------|-------------------|
| Ingredient(s)                 | Result            | Species    | Method                              | Exposure time (h) |
| sodium carbonate              | Not sensitising   |            | Method not given                    |                   |
| sodium percarbonate           | Not sensitising   | Guinea pig | OECD 406 (EU B.6) /<br>Buehler test |                   |
| sodium alkylbenzenesulphonate | No data available |            |                                     |                   |
| alkyl alcohol ethoxylate      | Not sensitising   | Guinea pig | Method not given                    |                   |
| alkyl alcohol ethoxylate      | Not sensitising   | Guinea pig |                                     |                   |
| sodium silicate               | Not sensitising   |            | Method not given                    |                   |
| sodium silicate               | Not sensitising   |            | Method not given                    |                   |

Sensitisation by inhalation

| Ingredient(s)                 | Result            | Species | Method | Exposure time |
|-------------------------------|-------------------|---------|--------|---------------|
| sodium carbonate              | No data available |         |        |               |
| sodium percarbonate           | No data available |         |        |               |
| sodium alkylbenzenesulphonate | No data available |         |        |               |
| alkyl alcohol ethoxylate      | No data available |         |        |               |
| alkyl alcohol ethoxylate      | No data available |         |        |               |
| sodium silicate               | No data available |         |        |               |
| sodium silicate               | No data available |         |        |               |

# CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction) Mutagenicity

| Ingredient(s)                 | Result (in-vitro)                                   | Method<br>(in-vitro) | Result (in-vivo)                                    | Method<br>(in-vivo) |
|-------------------------------|---|----------------------|---|---------------------|
| sodium carbonate              | No data available                                   |                      | No data available                                   |                     |
| sodium percarbonate           | No data available                                   |                      | No data available                                   |                     |
| sodium alkylbenzenesulphonate | No data available                                   |                      | No data available                                   |                     |
| alkyl alcohol ethoxylate      | No evidence of genotoxicity, negative test results  |                      | No evidence of genotoxicity, negative test results  | Method not given    |
| alkyl alcohol ethoxylate      | No evidence for mutagenicity                        | ,                    | No evidence for mutagenicity, negative test results | Weight of evidence  |
| sodium silicate               | No evidence for mutagenicity, negative test results |                      | No data available                                   |                     |
| sodium silicate               | No evidence for mutagenicity, negative test results |                      | No data available                                   |                     |

Carcinogenicity

| Ingredient(s)                 | Effect   |
|-------------------------------|--|
| sodium carbonate              | No evidence for carcinogenicity, weight-of-evidence    |
| sodium percarbonate           | No data available                                      |
| sodium alkylbenzenesulphonate | No data available                                      |
| alkyl alcohol ethoxylate      | No evidence for carcinogenicity, weight-of-evidence    |
| alkyl alcohol ethoxylate      | No evidence for carcinogenicity, weight-of-evidence    |
| sodium silicate               | No evidence for carcinogenicity, negative test results |
| sodium silicate               | No evidence for carcinogenicity, negative test results |

Toxicity for reproduction

| Ingredient(s)                        | Endpoint | Specific effect     | Value<br>(mg/kg bw/d) | Species | Method             | Exposure time | Remarks and other effects reported  |
|--------------------------------------|----------|---------------------|-----------------------|---------|--------------------|---------------|---|
| sodium carbonate                     |          |                     | No data available     |         |                    |               |   |
| sodium percarbonate                  |          |                     | No data available     |         |                    |               |   |
| sodium<br>alkylbenzenesulphonat<br>e |          |                     | No data<br>available  |         |                    |               |   |
| alkyl alcohol ethoxylate             | NOAEL    | Teratogenic effects | > 50                  | Rat     | Not known          |               | No known significant effects or critical hazards                          |
| alkyl alcohol ethoxylate             |          |                     | -                     |         | Weight of evidence |               | No evidence for reproductive toxicity No evidence for teratogenic effects |
| sodium silicate                      |          |                     | No data available     |         |                    |               | No evidence for reproductive toxicity                                     |
| sodium silicate                      |          |                     | No data available     |         |                    |               | No evidence for reproductive toxicity                                     |

Repeated dose toxicity
Sub-acute or sub-chronic oral toxicity

| Ingredient(s)                 | Endpoint | Value<br>(mg/kg bw/d) | Species | Method           | Exposure time (days) | Specific effects and organs<br>affected |
|-------------------------------|----------|-----------------------|---------|------------------|----------------------|---|
| sodium carbonate              |          | No data available     |         |                  |                      |   |
| sodium percarbonate           |          | No data available     |         |                  |                      |   |
| sodium alkylbenzenesulphonate |          | No data available     |         |                  |                      |   |
| alkyl alcohol ethoxylate      |          | No data<br>available  |         |                  |                      |   |
| alkyl alcohol ethoxylate      |          | No data<br>available  |         |                  |                      |   |
| sodium silicate               | NOAEL    | > 159                 | Rat     | Method not given | 180                  | No effects observed                     |
| sodium silicate               | NOAEL    | > 159                 | Rat     | Method not given |                      |   |

Sub-chronic dermal toxicity

| Ingredient(s) | Endpoint | Value        | Species | Method | Exposure    | Specific effects and organs |
|---------------|----------|--------------|---------|--------|-------------|-----------------------------|
|               |          | (mg/kg bw/d) |         |        | time (days) | affected                    |

| sodium carbonate              | No data   |  |  |
|-------------------------------|-----------|--|--|
|                               | available |  |  |
| sodium percarbonate           | No data   |  |  |
|                               | available |  |  |
| sodium alkylbenzenesulphonate | No data   |  |  |
|                               | available |  |  |
| alkyl alcohol ethoxylate      | No data   |  |  |
|                               | available |  |  |
| alkyl alcohol ethoxylate      | No data   |  |  |
|                               | available |  |  |
| sodium silicate               | No data   |  |  |
|                               | available |  |  |
| sodium silicate               | No data   |  |  |
|                               | available |  |  |

Sub-chronic inhalation toxicity

| Ingredient(s)                 | Endpoint | Value<br>(mg/kg bw/d) | Species | Method | Exposure time (days) | Specific effects and organs affected |
|-------------------------------|----------|-----------------------|---------|--------|----------------------|--------------------------------------|
| sodium carbonate              |          | No data               |         |        |                      |                                      |
|                               |          | available             |         |        |                      |                                      |
| sodium percarbonate           |          | No data               |         |        |                      |                                      |
|                               |          | available             |         |        |                      |                                      |
| sodium alkylbenzenesulphonate |          | No data               |         |        |                      |                                      |
|                               |          | available             |         |        |                      |                                      |
| alkyl alcohol ethoxylate      |          | No data               |         |        |                      |                                      |
|                               |          | available             |         |        |                      |                                      |
| alkyl alcohol ethoxylate      |          | No data               |         |        |                      |                                      |
|                               |          | available             |         |        |                      |                                      |
| sodium silicate               |          | No data               |         |        |                      |                                      |
|                               |          | available             |         |        |                      |                                      |
| sodium silicate               |          | No data               |         |        |                      |                                      |
|                               |          | available             |         |        |                      |                                      |

Chronic toxicity

| Ingredient(s)                        | Exposure route | Endpoint | Value<br>(mg/kg bw/d) | Species | Method           | Exposure time | Specific effects and<br>organs affected | Remark |
|--------------------------------------|----------------|----------|-----------------------|---------|------------------|---------------|---|--------|
| sodium carbonate                     |                |          | No data available     |         |                  |               |   |        |
| sodium percarbonate                  |                |          | No data available     |         |                  |               |   |        |
| sodium<br>alkylbenzenesulphonat<br>e |                |          | No data<br>available  |         |                  |               |   |        |
| alkyl alcohol ethoxylate             | Oral           | NOAEL    | 50                    | Rat     | Method not given | 24 month(s)   | Effects on organ weights                |        |
| alkyl alcohol ethoxylate             |                |          | No data available     |         |                  |               |   |        |
| sodium silicate                      |                |          | No data available     |         |                  |               |   |        |
| sodium silicate                      |                |          | No data available     |         |                  |               |   |        |

STOT-single exposure

| Ingredient(s)                 | Affected organ(s) |
|-------------------------------|-------------------|
| sodium carbonate              | No data available |
| sodium percarbonate           | No data available |
| sodium alkylbenzenesulphonate | No data available |
| alkyl alcohol ethoxylate      | Not applicable    |
| alkyl alcohol ethoxylate      | Not applicable    |
| sodium silicate               | No data available |
| sodium silicate               | No data available |

STOT-repeated exposure

| Ingredient(s)                 | Affected organ(s) |
|-------------------------------|-------------------|
| sodium carbonate              | No data available |
| sodium percarbonate           | No data available |
| sodium alkylbenzenesulphonate | No data available |
| alkyl alcohol ethoxylate      | Not applicable    |
| alkyl alcohol ethoxylate      | Not applicable    |
| sodium silicate               | Not applicable    |
| sodium silicate               | 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<br>(mg/l)      | Species                | Method            | Exposure time (h) |
|-------------------------------|----------|----------------------|------------------------|-------------------|-------------------|
| sodium carbonate              | LC 50    | 300                  | Lepomis<br>macrochirus | Method not given  | 96                |
| sodium percarbonate           | LC 50    | 70.7                 | Pimephales promelas    | Method not given  | 96                |
| sodium alkylbenzenesulphonate |          | No data<br>available |                        |                   |                   |
| alkyl alcohol ethoxylate      | LC 50    | 1 - 10               | Cyprinus carpio        | OECD 203 (EU C.1) | 96                |
| alkyl alcohol ethoxylate      | LC 50    | > 1 - 10             | Cyprinus carpio        | OECD 203 (EU C.1) | 96                |
| sodium silicate               | LC 50    | 1108                 | Brachydanio<br>rerio   | Method not given  | 96                |
| sodium silicate               | LC 50    | 3185                 | Brachydanio<br>rerio   | Method not given  | 96                |

Aquatic short-term toxicity - crustacea

| Ingredient(s)                 | Endpoint | Value<br>(mg/l)   | Species                 | Method            | Exposure time (h) |
|-------------------------------|----------|-------------------|-------------------------|-------------------|-------------------|
| sodium carbonate              | EC 50    | 265               | Daphnia<br>magna Straus | Method not given  | 96                |
| sodium percarbonate           | EC 50    | 4.9               | Daphnia pulex           | Method not given  | 48                |
| sodium alkylbenzenesulphonate |          | No data available |                         |                   |                   |
| alkyl alcohol ethoxylate      | EC 50    | 1 - 10            | Daphnia<br>magna Straus | OECD 202, static  | 48                |
| alkyl alcohol ethoxylate      | EC 50    | > 1 - 10          | Daphnia<br>magna Straus | OECD 202 (EU C.2) | 48                |
| sodium silicate               | EC 50    | 1700              | Daphnia<br>magna Straus | Method not given  | 48                |
| sodium silicate               | EC 50    | 1700              | Daphnia<br>magna Straus | Method not given  | 48                |

Aquatic short-term toxicity - algae

| Ingredient(s)                 | Endpoint | Value<br>(mg/l)      | Species                 | Method            | Exposure time (h) |
|-------------------------------|----------|----------------------|-------------------------|-------------------|-------------------|
| sodium carbonate              |          | No data<br>available |                         |                   | -                 |
| sodium percarbonate           |          | No data<br>available |                         |                   | -                 |
| sodium alkylbenzenesulphonate |          | No data<br>available |                         |                   |                   |
| alkyl alcohol ethoxylate      | EC 50    | 1 - 10               | Desmodesmus subspicatus | OECD 201, static  | 72                |
| alkyl alcohol ethoxylate      | EC 50    | > 1 - 10             | Desmodesmus subspicatus | OECD 201 (EU C.3) | 72                |
| sodium silicate               | EC 50    | 207                  | Desmodesmus subspicatus | Method not given  | 72                |
| sodium silicate               | EC 50    | 207                  | Desmodesmus subspicatus | DIN 38412, Part 9 | 72                |

Aquatic short-term toxicity - marine species

| Ingredient(s)                 | Endpoint | Value<br>(mg/l)      | Species | Method | Exposure time (days) |
|-------------------------------|----------|----------------------|---------|--------|----------------------|
| sodium carbonate              |          | No data<br>available |         |        | =                    |
| sodium percarbonate           |          | No data<br>available |         |        | -                    |
| sodium alkylbenzenesulphonate |          | No data<br>available |         |        |                      |
| alkyl alcohol ethoxylate      |          | No data available    |         |        | -                    |
| alkyl alcohol ethoxylate      |          | No data available    |         |        | -                    |
| sodium silicate               |          | No data available    |         |        | -                    |
| sodium silicate               |          | No data<br>available |         |        | -                    |

Impact on sewage plants - toxicity to bacteria

| Ingredient(s)                 | Endpoint | Value<br>(mg/l)      | Inoculum         | Method             | Exposure time |
|-------------------------------|----------|----------------------|------------------|--------------------|---------------|
| sodium carbonate              |          | No data<br>available |                  |                    |               |
| sodium percarbonate           | EC 50    | 466                  | Activated sludge | OECD 209           | 0.5 hour(s)   |
| sodium alkylbenzenesulphonate |          | No data<br>available |                  |                    |               |
| alkyl alcohol ethoxylate      | EC 10    | > 10000              | Activated sludge | DIN 38412 / Part 8 | 17 hour(s)    |
| alkyl alcohol ethoxylate      | EC 50    | 140                  | Activated sludge | Weight of evidence | 17 hour(s)    |
| sodium silicate               |          | No data<br>available | _                |                    |               |
| sodium silicate               |          | No data available    |                  |                    |               |

Aquatic long-term toxicity

|  | Aquatic | long-term | toxicity - | - fish |
|--|---------|-----------|------------|--------|
|--|---------|-----------|------------|--------|

| Ingredient(s)                 | Endpoint | Value<br>(mg/l)      | Species              | Method                     | Exposure time | Effects observed |
|-------------------------------|----------|----------------------|----------------------|----------------------------|---------------|------------------|
| sodium carbonate              |          | No data<br>available |                      |                            |               |                  |
| sodium percarbonate           | NOEC     | 7.4                  | Pimephales promelas  | Method not given           | 96 hour(s)    |                  |
| sodium alkylbenzenesulphonate |          | No data<br>available |                      |                            |               |                  |
| alkyl alcohol ethoxylate      |          | No data<br>available |                      |                            |               |                  |
| alkyl alcohol ethoxylate      | NOEC     | 1.73                 | Not specified        | QSAR Weight<br>of evidence | 96 hour(s)    |                  |
| sodium silicate               | NOEC     | 348                  | Brachydanio<br>rerio | Method not given           | 96 hour(s)    |                  |
| sodium silicate               | NOEC     | 348                  | Brachydanio<br>rerio | Method not given           | 96 hour(s)    |                  |

Aquatic long-term toxicity - crustacea

| Ingredient(s)                 | Endpoint | Value<br>(mg/l)      | Species          | Method                  | Exposure time | Effects observed |
|-------------------------------|----------|----------------------|------------------|-------------------------|---------------|------------------|
| sodium carbonate              |          | No data available    |                  |                         |               |                  |
| sodium percarbonate           | NOEC     | 2                    | Daphnia pulex    | Method not given        | 48 hour(s)    |                  |
| sodium alkylbenzenesulphonate |          | No data<br>available |                  |                         |               |                  |
| alkyl alcohol ethoxylate      |          | No data<br>available |                  |                         |               |                  |
| alkyl alcohol ethoxylate      | NOEC     | 1.36                 | Daphnia<br>magna | QSAR Weight of evidence | 21 day(s)     |                  |
| sodium silicate               |          | No data available    |                  |                         |               |                  |
| sodium silicate               |          | No data<br>available |                  |                         |               |                  |

| Ingredient(s)                 | Endpoint | Value<br>(mg/kg dw<br>sediment) | Species | Method | Exposure time (days) | Effects observed |
|-------------------------------|----------|---------------------------------|---------|--------|----------------------|------------------|
| sodium carbonate              |          | No data<br>available            |         |        | -                    |                  |
| sodium percarbonate           |          | No data<br>available            |         |        | -                    |                  |
| sodium alkylbenzenesulphonate |          | No data<br>available            |         |        |                      |                  |
| alkyl alcohol ethoxylate      |          | No data<br>available            |         |        | -                    |                  |
| alkyl alcohol ethoxylate      |          | No data<br>available            |         |        | -                    |                  |
| sodium silicate               |          | No data<br>available            |         |        | -                    |                  |
| sodium silicate               |          | No data<br>available            |         |        | -                    |                  |

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

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

|                          |       | available         |                |          |    |  |
|--------------------------|-------|-------------------|----------------|----------|----|--|
| alkyl alcohol ethoxylate | NOEC  | 220               | Eisenia fetida |          | -  |  |
| alkyl alcohol ethoxylate | LD 50 | > 1000            | Eisenia fetida | OECD 207 | 14 |  |
| sodium silicate          |       | No data available |                |          | -  |  |
| sodium silicate          |       | No data available |                |          | -  |  |

Terrestrial toxicity - plants, if available:

| Ingredient(s)            | Endpoint | Value<br>(mg/kg dw<br>soil) | Species  | Method   | Exposure time (days) | Effects observed |
|--------------------------|----------|-----------------------------|--|----------|----------------------|------------------|
| sodium carbonate         |          | No data available           |  |          | -                    |                  |
| sodium percarbonate      |          | No data<br>available        |  |          | -                    |                  |
| alkyl alcohol ethoxylate | NOEC     | 10                          | Lepidium<br>sativum  | OECD 208 | -                    |                  |
| alkyl alcohol ethoxylate | EC 50    | > 100                       | Triticum<br>aestivum<br>Lepidium<br>sativum<br>Brassica alba | OECD 208 | -                    |                  |
| sodium silicate          |          | No data<br>available        |  |          | -                    |                  |
| sodium silicate          |          | No data<br>available        |  |          | -                    |                  |

Terrestrial toxicity - birds, if available:

| errestrial toxicity - birds, il avallable. |          |                      |         |        |                      |                  |
|--|----------|----------------------|---------|--------|----------------------|------------------|
| Ingredient(s)                              | Endpoint | Value                | Species | Method | Exposure time (days) | Effects observed |
| sodium carbonate                           |          | No data<br>available |         |        | - 1                  |                  |
| sodium percarbonate                        |          | No data available    |         |        | -                    |                  |
| alkyl alcohol ethoxylate                   |          | No data available    |         |        | -                    |                  |
| alkyl alcohol ethoxylate                   |          | No data available    |         |        | -                    |                  |
| sodium silicate                            |          | No data available    |         |        | -                    |                  |
| sodium silicate                            |          | No data<br>available |         |        | -                    |                  |

Terrestrial toxicity - beneficial insects, if available:

| Ingredient(s)            | Endpoint | Value<br>(mg/kg dw<br>soil) | Species | Method | Exposure time (days) | Effects observed |
|--------------------------|----------|-----------------------------|---------|--------|----------------------|------------------|
| sodium carbonate         |          | No data<br>available        |         |        | -                    |                  |
| sodium percarbonate      |          | No data<br>available        |         |        | -                    |                  |
| alkyl alcohol ethoxylate |          | No data<br>available        |         |        | -                    |                  |
| alkyl alcohol ethoxylate |          | No data<br>available        |         |        | -                    |                  |
| sodium silicate          |          | No data<br>available        |         |        | -                    |                  |
| sodium silicate          |          | No data<br>available        |         |        | -                    |                  |

Terrestrial toxicity - soil bacteria, if available:

| Ingredient(s)            | Endpoint | Value<br>(mg/kg dw<br>soil) | Species | Method | Exposure time (days) | Effects observed |
|--------------------------|----------|-----------------------------|---------|--------|----------------------|------------------|
| sodium carbonate         |          | No data<br>available        |         |        | -                    |                  |
| sodium percarbonate      |          | No data<br>available        |         |        | -                    |                  |
| alkyl alcohol ethoxylate |          | No data available           |         |        | -                    |                  |
| alkyl alcohol ethoxylate |          | No data<br>available        |         |        | -                    |                  |
| sodium silicate          |          | No data<br>available        |         |        | -                    |                  |
| sodium silicate          |          | No data<br>available        |         |        | -                    |                  |

# **12.2 Persistence and degradability Abiotic degradation**Abiotic degradation - photodegradation in air, if available:

| Ingredient(s)       | Half-life time | Method           | Evaluation | Remark |
|---------------------|----------------|------------------|------------|--------|
| sodium percarbonate | NA             | Method not given |            |        |

Abiotic degradation - hydrolysis, if available:

| Ingredient(s)       | Half-life time in fresh | Method           | Evaluation           | Remark |
|---------------------|-------------------------|------------------|----------------------|--------|
|                     | water                   |                  |                      |        |
| sodium carbonate    | No data available       |                  | Rapidly hydrolysible |        |
| sodium percarbonate | < 1 day(s)              | Method not given | Hydrolysible         |        |

Abiotic degradation - other processes, if available:

**Biodegradation**Ready biodegradability - aerobic conditions

| Ingredient(s)                 | Inoculum                 | Analytical method          | DT 50                  | Method    | Evaluation                           |
|-------------------------------|--------------------------|----------------------------|------------------------|-----------|--------------------------------------|
| sodium carbonate              |                          |                            |                        |           | Not applicable (inorganic substance) |
| sodium percarbonate           |                          |                            |                        |           | Not applicable (inorganic substance) |
| sodium alkylbenzenesulphonate |                          |                            |                        | OECD 301B | Readily biodegradable                |
| alkyl alcohol ethoxylate      | Activated sludge, aerobe | CO <sub>2</sub> production | > 60 % in 28<br>day(s) | OECD 301B | Readily biodegradable                |
| alkyl alcohol ethoxylate      |                          | CO <sub>2</sub> production | > 60 % in 28<br>day(s) | OECD 301B | Readily biodegradable                |
| sodium silicate               |                          |                            |                        |           | Not applicable (inorganic substance) |
| sodium silicate               |                          |                            |                        |           | Not applicable (inorganic substance) |

Ready biodegradability - anaerobic and marine conditions, if available:

Degradation in relevant environmental compartments, if available:

#### 12.3 Bioaccumulative potential

| Ingredient(s)                 | Value             | Method | Evaluation                           | Remark |
|-------------------------------|-------------------|--------|--------------------------------------|--------|
| sodium carbonate              | No data available |        | No bioaccumulation expected          |        |
| sodium percarbonate           | No data available |        |                                      |        |
| sodium alkylbenzenesulphonate | No data available |        |                                      |        |
| alkyl alcohol ethoxylate      | -                 |        | No bioaccumulation expected          |        |
| alkyl alcohol ethoxylate      | No data available |        | Not relevant, does not bioaccumulate |        |
| sodium silicate               | No data available |        | Low potential for bioaccumulation    |        |
| sodium silicate               | No data available |        | Low potential for bioaccumulation    |        |

Bioconcentration factor (BCF)

| Ingredient(s)                        | Value             | Species | Method | Evaluation                  | Remark |
|--------------------------------------|-------------------|---------|--------|-----------------------------|--------|
| sodium carbonate                     | No data available |         |        | No bioaccumulation expected |        |
| sodium percarbonate                  | No data available |         |        |                             |        |
| sodium<br>alkylbenzenesulphonat<br>e | No data available |         |        |                             |        |
| alkyl alcohol ethoxylate             | -                 |         |        | No bioaccumulation expected |        |
| alkyl alcohol ethoxylate             | No data available |         |        |                             |        |
| sodium silicate                      | No data available |         |        |                             |        |
| sodium silicate                      | No data available |         |        |                             |        |

#### 12.4 Mobility in soil

| Ingredient(s)                 | Adsorption coefficient Log Koc | Desorption<br>coefficient<br>Log Koc(des) | Method | Soil/sediment<br>type | Evaluation                                       |
|-------------------------------|--------------------------------|---|--------|-----------------------|--|
| sodium carbonate              | No data available              |   |        |                       | Potential for mobility in soil, soluble in water |
| sodium percarbonate           | No data available              |   |        |                       | High potential for mobility in soil              |
| sodium alkylbenzenesulphonate | No data available              |   |        |                       |  |
| alkyl alcohol ethoxylate      | No data available              |   |        |                       | Immobile in soil or sediment                     |
| alkyl alcohol ethoxylate      | No data available              |   |        |                       |  |
| sodium silicate               | No data available              |   |        |                       |  |
| sodium silicate               | No data available              |   |        |                       |  |

**12.5 Results of PBT and vPvB assessment** Substances that fulfill the criteria for PBT/vPvB, if any, are listed in section 3.

#### 12.6 Other adverse effects

No other adverse effects known.

#### **SECTION 13: Disposal considerations**

13.1 Waste treatment methods

Waste from residues / unused

products:

The concentrated contents or contaminated packaging should be disposed of by a certified handler or according to the site permit. Release of waste to sewers is discouraged. The cleaned packaging

material is suitable for energy recovery or recycling in line with local legislation.

**European Waste Catalogue:** 20 01 29\* - detergents containing dangerous substances.

**Empty packaging** 

Recommendation: Dispose of observing national or local regulations.

#### SECTION 14: Transport information

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

14.1 UN number: Non-dangerous goods

14.2 UN proper shipping name: Non-dangerous goods 14.3 Transport hazard class(es): Non-dangerous goods

14.4 Packing group: Non-dangerous goods

14.5 Environmental hazards: Non-dangerous goods 14.6 Special precautions for user: Non-dangerous goods

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

#### **SECTION 15: Regulatory information**

#### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

#### EU regulations:

- · Regulation (EC) No. 1907/2006 REACH
- Regulation (EC) No 1272/2008 CLP
- Regulation (EC) No. 648/2004 Detergents regulation
- Regulation (EU) No 528/2012 on biocidal products

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

UFI: D7HE-70XG-600E-RAWT

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

15 - 30 % zeolites 5 - 15 % oxygen-based bleaching agents, anionic surfactants non-ionic surfactants, polycarboxylates, soap, phosphonates < 5 % perfumes, optical brighteners, enzymes

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

#### 15.2 Chemical safety assessment

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

#### SECTION 16: Other information

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

**SDS code: MS1004175** Version: 01.0 Revision: 2019-09-15

#### 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 H and EUH phrases mentioned in section 3:

- · H272 May intensify fire; oxidiser
- · H302 Harmful if swallowed.
- . H303 May be harmful if swallowed.
- · H315 Causes skin irritation.
- H318 Causes serious eye damage.
- H319 Causes serious eye irritation.
- H335 May cause respiratory irritation.

- H402 Harmful to aquatic life.
- H412 Harmful to aquatic life with long lasting effects.

#### Abbreviations and acronyms:

- AISE The international Association for Soaps, Detergents and Maintenance Products
   DNEL Derived No Effect Limit

- DNEL Derived No Effect Limit
   EUH CLP Specific hazard statement
   PBT Persistent, Bioaccumulative and Toxic
   PNEC Predicted No Effect Concentration
   REACH number REACH registration number, without supplier specific part
   vPvB very Persistent and very Bioaccumulative
   ATE Acute Toxicity Estimate
   LD50 Lethal Dose, 50% / Median Lethal dose
   LC50 Lethal Concentration, 50% / Median Lethal Concentration
   EC50 effective concentration, 50%
   NOEL No observed effect level
   NOAEL No observed adverse effect level
   OECD Organization for Economic Cooperation and Development

**End of Safety Data Sheet**