



# Safety Data Sheet

## JIF PROFESSIONAL CREAM CLEANER

Revision: 2020-08-06

Version: 01.0

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

#### 1.1 Product identifier

**Product name:** JIF PROFESSIONAL CREAM CLEANER

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#### 1.2 Recommended use and restrictions on use

**Identified uses:**

Bathroom and kitchen cleaner

**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

6.3B - Mildly 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

Serious eye damage, Category 1

Skin irritation, Category 3

Acute aquatic toxicity, Category 3

#### 2.2 Label elements



**Signal word:** Danger

##### Hazard statements:

H316 - Causes mild skin irritation.

H318 - Causes serious eye damage.

H402 - Harmful to aquatic life.

##### Prevention statement(s):

P233 - Keep container tightly closed.

P280 - Wear eye or face protection.

##### Response statement(s):

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

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.

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**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 |
|------------------------------------------|------------|-----------|----------------|
| Limestone                                | 1317-65-3  | 215-279-6 | 30-60          |
| Alcohols, C10-16, ethoxylated (7-<15 EO) | 68002-97-1 | [4]       | 3-10           |
| sodium carbonate                         | 497-19-8   | 207-838-8 | 1-3            |
| 2-(2-butoxyethoxy)ethanol                | 112-34-5   | 203-961-6 | 1-3            |
| sodium dodecylbenzenesulphonate          | 25155-30-0 | 246-680-4 | 1-3            |
| Sodium oleate                            | 143-19-1   | 205-591-0 | 1-3            |
| alkyl alcohol ethoxylate                 | 68002-97-1 | 500-182-6 | 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****Inhalation:**

Remove person to fresh air and keep comfortable for breathing.

**Skin contact:**

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

**Eye contact:**

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.

**Ingestion:**

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.

**Self-protection of first aider:**

Consider personal protective equipment as indicated in subsection 8.2.

**First aid facilities:**

Eyewash facilities should be considered in a workplace where necessary.

**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.

**Eye contact:**

Causes severe or permanent damage.

**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.

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

Wear eye/face protection.

**6.2 Environmental precautions**

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

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

Dyke to collect large liquid spills. Absorb with liquid-binding material (sand, diatomite, universal binders, sawdust). 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 hands before breaks and at the end of workday. 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) |
|---------------|----------------------|---------------------|------------------|
| Limestone     | 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:** No special requirements under normal use conditions.  
**Body protection:** No special requirements under normal use conditions.  
**Respiratory protection:** No special requirements under normal use conditions.

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

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

**Physical State:** Liquid  
**Appearance:** Viscous liquid  
**Colour:** Opaque, White  
**Odour:** Product specific  
**Odour threshold:** Not applicable

Method / remark

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pH  $\approx$  11.1 (neat)  
**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

**Flammability (liquid):** Not flammable.  
**Flash point (°C):** > 100 °C  
**Sustained combustion:** Not applicable.  
 ( UN Manual of Tests and Criteria, section 32, L.2 )

closed cup

**Evaporation rate:** Not determined  
**Flammability (solid, gas):** Not applicable to liquids  
**Upper/lower flammability limit (%):** Not determined  
**Vapour pressure:** Not determined  
**Vapour density:** Not determined  
**Relative density:**  $\approx$  1.4 (20 °C)  
**Solubility in / Miscibility with Water:** Fully miscible  
**Partition coefficient: n-octanol/water** No information available.

Not relevant to classification of this product

Not relevant to classification of this product  
 OECD 109 (EU A.3)

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

**Autoignition temperature:** Not determined  
**Decomposition temperature:** Not applicable.  
**Viscosity:**  $\approx$  4000 mPa.s (20 °C)  
**Explosive properties:** Not explosive.  
**Oxidising properties:** Not oxidising

## 9.2 Other information

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

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No reactivity hazards known under normal storage and use conditions.

### 10.2 Chemical stability

Stable under normal storage and use conditions.

### 10.3 Possibility of hazardous reactions

No hazardous reactions known under normal storage and use conditions.

### 10.4 Conditions to avoid

None known under normal storage and use conditions.

### 10.5 Incompatible materials

Reacts with acids.

### 10.6 Hazardous decomposition products

None known under normal storage and use conditions.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

Mixture data:.

#### Relevant calculated ATE(s):

ATE - Oral (mg/kg): >5000

ATE - Inhalatory, mists (mg/l): >20

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

#### Acute toxicity

Acute oral toxicity

| Ingredient(s) | Endpoint         | Value (mg/kg) | Species | Method           | Exposure time (h) |
|---------------|------------------|---------------|---------|------------------|-------------------|
| Limestone     | LD <sub>50</sub> | > 5000        | Rat     | Method not given |                   |

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|                                          |                  |                   |     |                                          |  |
|------------------------------------------|------------------|-------------------|-----|------------------------------------------|--|
| Alcohols, C10-16, ethoxylated (7-<15 EO) | LD <sub>50</sub> | ≥ 1000            |     | Read across                              |  |
| sodium carbonate                         | LD <sub>50</sub> | 2800              | Rat | Method not given                         |  |
| 2-(2-butoxyethoxy)ethanol                | LD <sub>50</sub> | 2410              | Rat | Method not given                         |  |
| sodium dodecylbenzenesulphonate          | LD <sub>50</sub> | 650               | Rat | Non guideline test<br>Weight of evidence |  |
| Sodium oleate                            |                  | No data available |     |                                          |  |
| alkyl alcohol ethoxylate                 |                  | No data available |     |                                          |  |

## Acute dermal toxicity

| Ingredient(s)                            | Endpoint         | Value (mg/kg)     | Species | Method           | Exposure time (h) |
|------------------------------------------|------------------|-------------------|---------|------------------|-------------------|
| Limestone                                |                  | No data available |         |                  |                   |
| Alcohols, C10-16, ethoxylated (7-<15 EO) | LD <sub>50</sub> | > 2000            |         | Method not given |                   |
| sodium carbonate                         | LD <sub>50</sub> | > 2000            | Rabbit  | Method not given |                   |
| 2-(2-butoxyethoxy)ethanol                | LD <sub>50</sub> | 2764              | Rabbit  | Method not given |                   |
| sodium dodecylbenzenesulphonate          | LD <sub>50</sub> | > 2000            | Rat     |                  |                   |
| Sodium oleate                            |                  | No data available |         |                  |                   |
| alkyl alcohol ethoxylate                 |                  | No data available |         |                  |                   |

## Acute inhalative toxicity

| Ingredient(s)                            | Endpoint         | Value (mg/l)      | Species | Method             | Exposure time (h) |
|------------------------------------------|------------------|-------------------|---------|--------------------|-------------------|
| Limestone                                |                  | No data available |         |                    |                   |
| Alcohols, C10-16, ethoxylated (7-<15 EO) |                  | No data available |         |                    |                   |
| sodium carbonate                         | LC <sub>50</sub> | > 2.3 (dust)      |         | Weight of evidence | 2                 |
| 2-(2-butoxyethoxy)ethanol                |                  | No data available |         |                    |                   |
| sodium dodecylbenzenesulphonate          |                  | No data available |         |                    |                   |
| Sodium oleate                            |                  | No data available |         |                    |                   |
| alkyl alcohol ethoxylate                 |                  | No data available |         |                    |                   |

## Irritation and corrosivity

## Skin irritation and corrosivity

| Ingredient(s)                            | Result            | Species | Method            | Exposure time |
|------------------------------------------|-------------------|---------|-------------------|---------------|
| Limestone                                | No data available |         |                   |               |
| Alcohols, C10-16, ethoxylated (7-<15 EO) | Not irritant      | Rabbit  | Method not given  |               |
| sodium carbonate                         | Not irritant      | Rabbit  | OECD 404 (EU B.4) |               |
| 2-(2-butoxyethoxy)ethanol                | Not irritant      | Rabbit  | Method not given  |               |
| sodium dodecylbenzenesulphonate          | Irritant          |         |                   |               |
| Sodium oleate                            | No data available |         |                   |               |
| alkyl alcohol ethoxylate                 | No data available |         |                   |               |

## Eye irritation and corrosivity

| Ingredient(s)                            | Result            | Species | Method           | Exposure time |
|------------------------------------------|-------------------|---------|------------------|---------------|
| Limestone                                | No data available |         |                  |               |
| Alcohols, C10-16, ethoxylated (7-<15 EO) | Severe damage     | Rabbit  | Method not given |               |
| sodium carbonate                         | Irritant          | Rabbit  | Method not given |               |
| 2-(2-butoxyethoxy)ethanol                | Irritant          | Rabbit  | Method not given |               |
| sodium dodecylbenzenesulphonate          | Corrosive         |         |                  |               |
| Sodium oleate                            | No data available |         |                  |               |
| alkyl alcohol ethoxylate                 | No data available |         |                  |               |

## Respiratory tract irritation and corrosivity

| Ingredient(s)                            | Result            | Species | Method | Exposure time |
|------------------------------------------|-------------------|---------|--------|---------------|
| Limestone                                | No data available |         |        |               |
| Alcohols, C10-16, ethoxylated (7-<15 EO) | No data available |         |        |               |
| sodium carbonate                         | No data available |         |        |               |
| 2-(2-butoxyethoxy)ethanol                | No data available |         |        |               |
| sodium dodecylbenzenesulphonate          | No data available |         |        |               |
| Sodium oleate                            | No data available |         |        |               |

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|                          |                   |  |  |  |
|--------------------------|-------------------|--|--|--|
| alkyl alcohol ethoxylate | No data available |  |  |  |
|--------------------------|-------------------|--|--|--|

**Sensitisation**

Sensitisation by skin contact

| Ingredient(s)                            | Result            | Species    | Method           | Exposure time (h) |
|------------------------------------------|-------------------|------------|------------------|-------------------|
| Limestone                                | No data available |            |                  |                   |
| Alcohols, C10-16, ethoxylated (7-<15 EO) | Not sensitising   | Guinea pig | Method not given |                   |
| sodium carbonate                         | Not sensitising   |            | Method not given |                   |
| 2-(2-butoxyethoxy)ethanol                | Not sensitising   | Guinea pig | Method not given |                   |
| sodium dodecylbenzenesulphonate          | Not sensitising   | Guinea pig |                  |                   |
| Sodium oleate                            | No data available |            |                  |                   |
| alkyl alcohol ethoxylate                 | No data available |            |                  |                   |

Sensitisation by inhalation

| Ingredient(s)                            | Result            | Species | Method | Exposure time |
|------------------------------------------|-------------------|---------|--------|---------------|
| Limestone                                | No data available |         |        |               |
| Alcohols, C10-16, ethoxylated (7-<15 EO) | No data available |         |        |               |
| sodium carbonate                         | No data available |         |        |               |
| 2-(2-butoxyethoxy)ethanol                | No data available |         |        |               |
| sodium dodecylbenzenesulphonate          | No data available |         |        |               |
| Sodium oleate                            | No data available |         |        |               |
| alkyl alcohol ethoxylate                 | 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) |
|------------------------------------------|-----------------------------------------------------|-------------------|-----------------------------------------------------|------------------|
| Limestone                                | No data available                                   |                   | No data available                                   |                  |
| Alcohols, C10-16, ethoxylated (7-<15 EO) | No evidence for mutagenicity, negative test results | Method not given  | No evidence for mutagenicity, negative test results | Method not given |
| sodium carbonate                         | No data available                                   |                   | No data available                                   |                  |
| 2-(2-butoxyethoxy)ethanol                | No evidence of genotoxicity, negative test results  | Method not given  | No evidence of genotoxicity, negative test results  | Method not given |
| sodium dodecylbenzenesulphonate          | No data available                                   |                   | No data available                                   |                  |
| Sodium oleate                            | No data available                                   |                   | No data available                                   |                  |
| alkyl alcohol ethoxylate                 | No data available                                   |                   | No data available                                   |                  |

Carcinogenicity

| Ingredient(s)                            | Effect                                              |
|------------------------------------------|-----------------------------------------------------|
| Limestone                                | No data available                                   |
| Alcohols, C10-16, ethoxylated (7-<15 EO) | No evidence for carcinogenicity, weight-of-evidence |
| sodium carbonate                         | No evidence for carcinogenicity, weight-of-evidence |
| 2-(2-butoxyethoxy)ethanol                | No data available                                   |
| sodium dodecylbenzenesulphonate          | No data available                                   |
| Sodium oleate                            | No data available                                   |
| alkyl alcohol ethoxylate                 | 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                                           |
|------------------------------------------|----------|-----------------|--------------------|---------|------------|---------------|------------------------------------------------------------------------------|
| Limestone                                |          |                 | No data available  |         |            |               |                                                                              |
| Alcohols, C10-16, ethoxylated (7-<15 EO) |          |                 | No data available  |         | Literature |               | No evidence for teratogenic effects No evidence for reproductive toxicity    |
| sodium carbonate                         |          |                 | No data available  |         |            |               |                                                                              |
| 2-(2-butoxyethoxy)ethanol                |          |                 | No data available  |         |            |               | No evidence for developmental toxicity No evidence for reproductive toxicity |
| sodium dodecylbenzenesulphonate          |          |                 | No data available  |         |            |               |                                                                              |
| Sodium oleate                            |          |                 | No data available  |         |            |               |                                                                              |
| alkyl alcohol ethoxylate                 |          |                 | No data available  |         |            |               |                                                                              |

**Repeated dose toxicity**

Sub-acute or sub-chronic oral toxicity

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| Ingredient(s)                            | Endpoint | Value (mg/kg bw/d) | Species | Method | Exposure time (days) | Specific effects and organs affected |
|------------------------------------------|----------|--------------------|---------|--------|----------------------|--------------------------------------|
| Limestone                                |          | No data available  |         |        |                      |                                      |
| Alcohols, C10-16, ethoxylated (7-<15 EO) |          | No data available  |         |        |                      |                                      |
| sodium carbonate                         |          | No data available  |         |        |                      |                                      |
| 2-(2-butoxyethoxy)ethanol                |          | No data available  |         |        |                      |                                      |
| sodium dodecylbenzenesulphonate          |          | No data available  |         |        |                      |                                      |
| Sodium oleate                            |          | No data available  |         |        |                      |                                      |
| alkyl alcohol ethoxylate                 |          | 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 |
|------------------------------------------|----------|--------------------|---------|--------|----------------------|--------------------------------------|
| Limestone                                |          | No data available  |         |        |                      |                                      |
| Alcohols, C10-16, ethoxylated (7-<15 EO) |          | No data available  |         |        |                      |                                      |
| sodium carbonate                         |          | No data available  |         |        |                      |                                      |
| 2-(2-butoxyethoxy)ethanol                |          | No data available  |         |        |                      |                                      |
| sodium dodecylbenzenesulphonate          |          | No data available  |         |        |                      |                                      |
| Sodium oleate                            |          | No data available  |         |        |                      |                                      |
| alkyl alcohol ethoxylate                 |          | 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 |
|------------------------------------------|----------|--------------------|---------|--------|----------------------|--------------------------------------|
| Limestone                                |          | No data available  |         |        |                      |                                      |
| Alcohols, C10-16, ethoxylated (7-<15 EO) |          | No data available  |         |        |                      |                                      |
| sodium carbonate                         |          | No data available  |         |        |                      |                                      |
| 2-(2-butoxyethoxy)ethanol                |          | No data available  |         |        |                      |                                      |
| sodium dodecylbenzenesulphonate          |          | No data available  |         |        |                      |                                      |
| Sodium oleate                            |          | No data available  |         |        |                      |                                      |
| alkyl alcohol ethoxylate                 |          | 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 |
|------------------------------------------|----------------|----------|--------------------|---------|--------|---------------|--------------------------------------|--------|
| Limestone                                |                |          | No data available  |         |        |               |                                      |        |
| Alcohols, C10-16, ethoxylated (7-<15 EO) |                |          | No data available  |         |        |               |                                      |        |
| sodium carbonate                         |                |          | No data available  |         |        |               |                                      |        |
| 2-(2-butoxyethoxy)ethanol                |                |          | No data available  |         |        |               |                                      |        |
| sodium dodecylbenzenesulphonate          |                |          | No data available  |         |        |               |                                      |        |
| Sodium oleate                            |                |          | No data available  |         |        |               |                                      |        |
| alkyl alcohol ethoxylate                 |                |          | No data available  |         |        |               |                                      |        |

## STOT-single exposure

| Ingredient(s)                            | Affected organ(s) |
|------------------------------------------|-------------------|
| Limestone                                | No data available |
| Alcohols, C10-16, ethoxylated (7-<15 EO) | No data available |
| sodium carbonate                         | No data available |
| 2-(2-butoxyethoxy)ethanol                | No data available |

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|                                 |                   |
|---------------------------------|-------------------|
| sodium dodecylbenzenesulphonate | No data available |
| Sodium oleate                   | No data available |
| alkyl alcohol ethoxylate        | No data available |

## STOT-repeated exposure

| Ingredient(s)                            | Affected organ(s) |
|------------------------------------------|-------------------|
| Limestone                                | No data available |
| Alcohols, C10-16, ethoxylated (7-<15 EO) | No data available |
| sodium carbonate                         | No data available |
| 2-(2-butoxyethoxy)ethanol                | No data available |
| sodium dodecylbenzenesulphonate          | No data available |
| Sodium oleate                            | No data available |
| alkyl alcohol ethoxylate                 | 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) |
|------------------------------------------|------------------|-------------------|----------------------------|------------------|-------------------|
| Limestone                                | LC <sub>50</sub> | > 10000           | <i>Oncorhynchus mykiss</i> | Method not given | 96                |
| Alcohols, C10-16, ethoxylated (7-<15 EO) | LC <sub>50</sub> | > 1-10            | <i>Brachydanio rerio</i>   | Method not given | 96                |
| sodium carbonate                         | LC <sub>50</sub> | 300               | <i>Lepomis macrochirus</i> | Method not given | 96                |
| 2-(2-butoxyethoxy)ethanol                | LC <sub>50</sub> | > 100             | <i>Fish</i>                | Method not given | -                 |
| sodium dodecylbenzenesulphonate          |                  | No data available |                            |                  |                   |
| Sodium oleate                            |                  | No data available |                            |                  |                   |
| alkyl alcohol ethoxylate                 |                  | No data available |                            |                  |                   |

Aquatic short-term toxicity - crustacea

| Ingredient(s)                            | Endpoint         | Value (mg/l)      | Species                     | Method             | Exposure time (h) |
|------------------------------------------|------------------|-------------------|-----------------------------|--------------------|-------------------|
| Limestone                                | EC <sub>50</sub> | > 1000            | <i>Daphnia magna Straus</i> | Method not given   | 48                |
| Alcohols, C10-16, ethoxylated (7-<15 EO) | EC <sub>50</sub> | > 1-10            | <i>Daphnia magna Straus</i> | Method not given   | 48                |
| sodium carbonate                         | EC <sub>50</sub> | 265               | <i>Daphnia magna Straus</i> | Method not given   | 96                |
| 2-(2-butoxyethoxy)ethanol                | EC <sub>50</sub> | > 100             | <i>Daphnia magna Straus</i> | DIN 38412, Part 11 | 48                |
| sodium dodecylbenzenesulphonate          |                  | No data available |                             |                    |                   |
| Sodium oleate                            |                  | No data available |                             |                    |                   |
| alkyl alcohol ethoxylate                 |                  | No data available |                             |                    |                   |

Aquatic short-term toxicity - algae

| Ingredient(s)                            | Endpoint         | Value (mg/l)      | Species                        | Method           | Exposure time (h) |
|------------------------------------------|------------------|-------------------|--------------------------------|------------------|-------------------|
| Limestone                                | EC <sub>50</sub> | > 200             | <i>Desmodesmus subspicatus</i> | Method not given | 72                |
| Alcohols, C10-16, ethoxylated (7-<15 EO) | EC <sub>50</sub> | > 1-10            | <i>Desmodesmus subspicatus</i> | Method not given | 72                |
| sodium carbonate                         |                  | No data available |                                |                  | -                 |



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|                                 |                  |                   |                                |                    |   |
|---------------------------------|------------------|-------------------|--------------------------------|--------------------|---|
| 2-(2-butoxyethoxy)ethanol       | EC <sub>50</sub> | > 100             | <i>Desmodesmus subspicatus</i> | Method not given   | - |
| sodium dodecylbenzenesulphonate |                  | No data available |                                | Weight of evidence |   |
| Sodium oleate                   |                  | No data available |                                |                    |   |
| alkyl alcohol ethoxylate        |                  | No data available |                                |                    |   |

## Aquatic short-term toxicity - marine species

| Ingredient(s)                            | Endpoint | Value (mg/l)      | Species | Method | Exposure time (days) |
|------------------------------------------|----------|-------------------|---------|--------|----------------------|
| Limestone                                |          | No data available |         |        |                      |
| Alcohols, C10-16, ethoxylated (7-<15 EO) |          | No data available |         |        |                      |
| sodium carbonate                         |          | No data available |         |        | -                    |
| 2-(2-butoxyethoxy)ethanol                |          | No data available |         |        | -                    |
| sodium dodecylbenzenesulphonate          |          | No data available |         |        |                      |
| Sodium oleate                            |          | No data available |         |        |                      |
| alkyl alcohol ethoxylate                 |          | No data available |         |        |                      |

## Impact on sewage plants - toxicity to bacteria

| Ingredient(s)                            | Endpoint         | Value (mg/l)      | Inoculum                  | Method           | Exposure time |
|------------------------------------------|------------------|-------------------|---------------------------|------------------|---------------|
| Limestone                                |                  | No data available |                           |                  |               |
| Alcohols, C10-16, ethoxylated (7-<15 EO) | EC <sub>50</sub> | 140               | <i>Activated sludge</i>   | Method not given |               |
| sodium carbonate                         |                  | No data available |                           |                  |               |
| 2-(2-butoxyethoxy)ethanol                | EC <sub>10</sub> | 1170              | <i>Pseudomonas putida</i> | Method not given | 16 hour(s)    |
| sodium dodecylbenzenesulphonate          |                  | No data available |                           |                  |               |
| Sodium oleate                            |                  | No data available |                           |                  |               |
| alkyl alcohol ethoxylate                 |                  | No data available |                           |                  |               |

## Aquatic long-term toxicity

## Aquatic long-term toxicity - fish

| Ingredient(s)                            | Endpoint | Value (mg/l)      | Species | Method | Exposure time | Effects observed |
|------------------------------------------|----------|-------------------|---------|--------|---------------|------------------|
| Limestone                                |          | No data available |         |        |               |                  |
| Alcohols, C10-16, ethoxylated (7-<15 EO) |          | No data available |         |        |               |                  |
| sodium carbonate                         |          | No data available |         |        |               |                  |
| 2-(2-butoxyethoxy)ethanol                |          | No data available |         |        |               |                  |
| sodium dodecylbenzenesulphonate          |          | No data available |         |        |               |                  |
| Sodium oleate                            |          | No data available |         |        |               |                  |
| alkyl alcohol ethoxylate                 |          | No data available |         |        |               |                  |

## Aquatic long-term toxicity - crustacea

| Ingredient(s)                            | Endpoint         | Value (mg/l)      | Species            | Method   | Exposure time | Effects observed |
|------------------------------------------|------------------|-------------------|--------------------|----------|---------------|------------------|
| Limestone                                |                  | No data available |                    |          |               |                  |
| Alcohols, C10-16, ethoxylated (7-<15 EO) | EC <sub>10</sub> | > 0.1-1           | <i>Daphnia sp.</i> | OECD 211 |               |                  |
| sodium carbonate                         |                  | No data available |                    |          |               |                  |
| 2-(2-butoxyethoxy)ethanol                |                  | No data available |                    |          |               |                  |
| sodium dodecylbenzenesulphonate          |                  | No data available |                    |          |               |                  |
| Sodium oleate                            |                  | No data available |                    |          |               |                  |
| alkyl alcohol ethoxylate                 |                  | No data available |                    |          |               |                  |

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|  |  |           |  |  |  |  |
|--|--|-----------|--|--|--|--|
|  |  | 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 |
|------------------------------------------|----------|---------------------------|---------|--------|----------------------|------------------|
| Limestone                                |          | No data available         |         |        |                      |                  |
| Alcohols, C10-16, ethoxylated (7-<15 EO) |          | No data available         |         |        |                      |                  |
| sodium carbonate                         |          | No data available         |         |        | -                    |                  |
| 2-(2-butoxyethoxy)ethanol                |          | No data available         |         |        | -                    |                  |
| sodium dodecylbenzenesulphonate          |          | No data available         |         |        |                      |                  |
| Sodium oleate                            |          | No data available         |         |        |                      |                  |
| alkyl alcohol ethoxylate                 |          | 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     |         |        | -                    |                  |
| 2-(2-butoxyethoxy)ethanol |          | 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     |         |        | -                    |                  |
| 2-(2-butoxyethoxy)ethanol |          | No data available     |         |        | -                    |                  |

Terrestrial toxicity - birds, if available:

| Ingredient(s)             | Endpoint | Value             | Species | Method | Exposure time (days) | Effects observed |
|---------------------------|----------|-------------------|---------|--------|----------------------|------------------|
| sodium carbonate          |          | No data available |         |        | -                    |                  |
| 2-(2-butoxyethoxy)ethanol |          | 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     |         |        | -                    |                  |
| 2-(2-butoxyethoxy)ethanol |          | 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     |         |        | -                    |                  |
| 2-(2-butoxyethoxy)ethanol |          | 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                           |
|------------------------------------------|--------------------------|-------------------|---------------------|--------------------|--------------------------------------|
| Limestone                                |                          |                   |                     |                    | Not applicable (inorganic substance) |
| Alcohols, C10-16, ethoxylated (7-<15 EO) | Activated sludge, aerobe | Method not given  | > 60 % in 28 day(s) | OECD 301B          | Readily biodegradable                |
| sodium carbonate                         |                          |                   |                     |                    | Not applicable (inorganic substance) |
| 2-(2-butoxyethoxy)ethanol                |                          |                   | 76 % in 28 day(s)   | OECD 301D          | Readily biodegradable                |
| sodium dodecylbenzenesulphonate          |                          |                   |                     | OECD 301E          | Readily biodegradable                |
| Sodium oleate                            |                          |                   |                     | Weight of evidence | Readily biodegradable                |
| alkyl alcohol ethoxylate                 |                          |                   |                     |                    | No data available                    |

Ready biodegradability - anaerobic and marine conditions, if available:

Degradation in relevant environmental compartments, if available:

**12.3 Bioaccumulative potential**Partition coefficient n-octanol/water (log K<sub>ow</sub>)

| Ingredient(s)                            | Value             | Method           | Evaluation                  | Remark |
|------------------------------------------|-------------------|------------------|-----------------------------|--------|
| Limestone                                | No data available |                  |                             |        |
| Alcohols, C10-16, ethoxylated (7-<15 EO) | -                 |                  | No bioaccumulation expected |        |
| sodium carbonate                         | No data available |                  | No bioaccumulation expected |        |
| 2-(2-butoxyethoxy)ethanol                | 0.56              | Method not given | No bioaccumulation expected |        |
| sodium dodecylbenzenesulphonate          | No data available |                  |                             |        |
| Sodium oleate                            | No data available |                  |                             |        |
| alkyl alcohol ethoxylate                 | No data available |                  |                             |        |

Bioconcentration factor (BCF)

| Ingredient(s)                            | Value             | Species | Method | Evaluation                  | Remark |
|------------------------------------------|-------------------|---------|--------|-----------------------------|--------|
| Limestone                                | No data available |         |        |                             |        |
| Alcohols, C10-16, ethoxylated (7-<15 EO) | No data available |         |        |                             |        |
| sodium carbonate                         | No data available |         |        | No bioaccumulation expected |        |
| 2-(2-butoxyethoxy)ethanol                | No data available |         |        |                             |        |
| sodium dodecylbenzenesulphonate          | No data available |         |        |                             |        |
| Sodium oleate                            | No data available |         |        |                             |        |
| alkyl alcohol ethoxylate                 | No data available |         |        |                             |        |

**12.4 Mobility in soil**

Adsorption/Desorption to soil or sediment

| Ingredient(s)                            | Adsorption coefficient Log K <sub>oc</sub> | Desorption coefficient Log K <sub>oc</sub> (des) | Method | Soil/sediment type | Evaluation                                       |
|------------------------------------------|--------------------------------------------|--------------------------------------------------|--------|--------------------|--------------------------------------------------|
| Limestone                                | No data available                          |                                                  |        |                    |                                                  |
| Alcohols, C10-16, ethoxylated (7-<15 EO) | No data available                          |                                                  |        |                    |                                                  |
| sodium carbonate                         | No data available                          |                                                  |        |                    | Potential for mobility in soil, soluble in water |
| 2-(2-butoxyethoxy)ethanol                | No data available                          |                                                  |        |                    | Potential for mobility in soil, soluble in water |
| sodium dodecylbenzenesulphonate          | No data available                          |                                                  |        |                    |                                                  |
| Sodium oleate                            | No data available                          |                                                  |        |                    |                                                  |
| alkyl alcohol ethoxylate                 | 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

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

**Empty packaging****Recommendation:****Suitable cleaning agents:**

Dispose of observing national or local regulations.

Water, if necessary with cleaning agent.

**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

**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

**Other relevant information:**

**Hazchem code:** None allocated

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

HSR002530.

**Group standard**

Cleaning Products (Subsidiary Hazard) Group Standard 2017

**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:** MS32000642

**Version:** 01.0

**Revision:** 2020-08-06

**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 - Non GHS 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**