



## Diverclean C3

Revision: 2018-02-02

Version: 01.0

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

#### 1.1 Product identifier

**Product name:** Diverclean C3

#### 1.2 Recommended use and restrictions on use

**Identified uses:**

Hard surface cleaner

**Restrictions of use:**

Uses other than those identified are not recommended

#### 1.3 Details of the supplier

Diversey Australia Pty. Limited  
29 Chifley St, Smithfield, NSW, 2164, Australia  
Telephone: 1800 647 779 (toll free)  
Fax: (02) 9725 5767  
Email: aucustserv@diversey.com  
Website: www.diversey.com/

#### 1.4 Emergency telephone number

Call 1800 033 111 (24hrs)

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

Serious eye damage, Category 1

Skin irritation, Category 2

#### 2.2 Label elements



**Signal word:** Danger

**Hazard statements:**

H315 - Causes skin irritation.

H318 - Causes serious eye damage.

**Prevention statement(s):**

P233 - Keep container tightly closed.

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

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

**Response statement(s):**

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

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

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

Continue rinsing.

P310 - Immediately call a POISON CENTRE, doctor or physician.

P321 - Specific treatment (see supplemental first aid instructions on this label).

P362 - Take off contaminated clothing.

**Disposal statement(s):**

P501 - Dispose of unused content as chemical waste.

#### 2.3 Other hazards

#### 2.4 Classification diluted product:

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Recommended maximum concentration (%): 5

Not classified as hazardous

## SECTION 3: Composition/information on ingredients

### 3.1 Substances / Mixtures

| Ingredient(s)  | CAS number | EC number | Weight percent |
|--|------------|-----------|----------------|
| 2-butoxyethanol  | 111-76-2   | 203-905-0 | 3-10           |
| disodium metasilicate                                  | 6834-92-0  | 229-912-9 | 1-3            |
| tetrapotassium pyrophosphate                           | 7320-34-5  | 230-785-7 | 1-3            |
| alcohols, C12-14, ethoxylated, sulphates, sodium salts | 68891-38-3 | 500-234-8 | 1-3            |

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

\* Polymer.

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

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

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

|  |   |
|--|---|
| <b>Inhalation:</b>                     | Remove person to fresh air and keep comfortable for breathing. Get medical attention or advice if you feel unwell.  |
| <b>Skin contact:</b>                   | Wash skin with plenty of lukewarm, gently flowing water. If skin irritation occurs: Get medical advice or attention.  |
| <b>Eye contact:</b>                    | Hold eyelids apart and flush eyes with plenty of lukewarm water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTRE, doctor or physician. |
| <b>Ingestion:</b>                      | Rinse mouth. Immediately drink 1 glass of water. Never give anything by mouth to an unconscious person. Get medical attention or advice if you feel unwell.   |
| <b>Self-protection of first aider:</b> | Consider personal protective equipment as indicated in subsection 8.2.  |
| <b>First aid facilities:</b>           | Eyewash facilities should be considered in a workplace where necessary.   |

### 4.2 Most important symptoms and effects, both acute and delayed

|                      |   |
|----------------------|---|
| <b>Inhalation:</b>   | No known effects or symptoms in normal use. |
| <b>Skin contact:</b> | Causes irritation.                          |
| <b>Eye contact:</b>  | Causes severe or permanent damage.          |
| <b>Ingestion:</b>    | No known effects or symptoms in normal use. |

### 4.3 Indication of any immediate medical attention and special treatment needed

No information available on clinical testing and medical monitoring. Specific toxicological information on substances, if available, can be found in section 11.

**Poison Information Center:** Call 13 11 26 (Australia Wide).

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

### 6.2 Environmental precautions

Do not allow to enter drainage system, surface or ground water. Dilute with plenty of water.

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

Absorb with liquid-binding material (sand, diatomite, universal binders, sawdust).

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**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. Wash face, hands and any exposed skin thoroughly after handling. Take off immediately all contaminated clothing. Wash contaminated clothing before reuse. Use personal protective equipment as required. Avoid contact with eyes. Use only with adequate ventilation.

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

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

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

**7.3 Specific end use(s)**

No specific advice for end use available.

**SECTION 8: Exposure controls/personal protection****8.1 Control parameters****Workplace exposure limits**

Air limit values, if available:

| Ingredient(s)   | Long term value(s)<br>(TWA)      | Short term value(s)<br>(STEL)   | Peak value(s) |
|-----------------|----------------------------------|---------------------------------|---------------|
| 2-butoxyethanol | 20 ppm<br>96.9 mg/m <sup>3</sup> | 50 ppm<br>242 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:*

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

**Appropriate engineering controls:** If the product is diluted by using specific dosing systems with no risk of splashes or direct skin contact, the personal protection equipment as described in this section is not required.

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

**Personal protective equipment****Eye / face protection:**

Safety glasses or goggles (EN 166).

**Hand protection:**

Chemical-resistant protective gloves (EN 374). Verify instructions regarding permeability and breakthrough time, as provided by the gloves supplier. Consider specific local use conditions, such as risk of splashes, cuts, contact time and temperature.

Suggested gloves for prolonged contact: Material: butyl rubber Penetration time: >= 480 min

Material thickness: >= 0.7 mm

Suggested gloves for protection against splashes: Material: nitrile rubber Penetration time: >= 30 min Material thickness: >= 0.4 mm

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

**Body protection:**

Wear chemical-resistant clothing and boots in case direct dermal exposure and/or splashes may occur (EN 14605).

**Respiratory protection:**

No special requirements under normal use conditions.

**Environmental exposure controls:**

No special requirements under normal use conditions.

*Recommended safety measures for handling the diluted product:*

**Recommended maximum concentration (%):** 5

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

**Personal protective equipment**

**Eye / face protection:** Safety glasses are not normally required. However, their use is recommended in those cases where splashes may occur when handling the product.  
**Hand protection:** Rinse and dry hands after use. For prolonged contact protection for the skin may be necessary.  
**Body protection:** No special requirements under normal use conditions.  
**Respiratory protection:** No special requirements under normal use conditions.

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

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

|   | Method / remark                                |
|---|--|
| <b>Physical State:</b> Liquid   |  |
| <b>Colour:</b> Clear, Pink  |  |
| <b>Odour:</b> Product specific  |  |
| <b>Odour threshold:</b> Not applicable  |  |
| <b>pH:</b> > 12 (neat)  |  |
| <b>Melting point/freezing point (°C):</b> Not determined  | Not relevant to classification of this product |
| <b>Initial boiling point and boiling range (°C):</b> Not determined   |  |
| <b>Flash point (°C):</b> > 100  | closed cup                                     |
| <b>Sustained combustion:</b> Not applicable.<br>( UN Manual of Tests and Criteria, section 32, L.2 )  |  |
| <b>Evaporation rate:</b> Not determined   |  |
| <b>Flammability (solid, gas):</b> Not determined  |  |
| <b>Upper/lower flammability limit (%):</b> Not determined   |  |
| <b>Vapour pressure:</b> Not determined  |  |
| <b>Vapour density:</b> Not determined   |  |
| <b>Relative density:</b> ≈ 1.06 (approximately) (20 °C)   |  |
| <b>Solubility in / Miscibility with Water:</b> Fully miscible   |  |
| <b>Partition coefficient: n-octanol/water</b> No information available.<br>Substance data, partition coefficient n-octanol/water (log Kow): see subsection 12.3 |  |
| <b>Autoignition temperature:</b> Not determined   |  |
| <b>Decomposition temperature:</b> Not applicable.   |  |
| <b>Viscosity:</b> Not determined  |  |
| <b>Explosive properties:</b> Not explosive.   |  |
| <b>Oxidising properties:</b> 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): &gt;5000

ATE - Dermal (mg/kg): &gt;5000

ATE - Inhalatory, vapours (mg/l): &gt;50

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) |
|--|------------------|---------------|---------|-------------------|-------------------|
| 2-butoxyethanol  | LD <sub>50</sub> | 1746          | Rat     | Method not given  |                   |
| disodium metasilicate                                  | LD <sub>50</sub> | 770 - 820     | Mouse   | Method not given  |                   |
| tetrapotassium pyrophosphate                           | LD <sub>50</sub> | > 2000        | Rat     | Method not given  |                   |
| alcohols, C12-14, ethoxylated, sulphates, sodium salts | LD <sub>50</sub> | > 5000        | Rat     | OECD 401 (EU B.1) |                   |

## Acute dermal toxicity

| Ingredient(s)  | Endpoint         | Value (mg/kg)     | Species | Method            | Exposure time (h) |
|--|------------------|-------------------|---------|-------------------|-------------------|
| 2-butoxyethanol  | LD <sub>50</sub> | 6411              |         | Method not given  |                   |
| disodium metasilicate                                  |                  | No data available |         |                   |                   |
| tetrapotassium pyrophosphate                           | LD <sub>50</sub> | > 2000            | Rabbit  | Method not given  |                   |
| alcohols, C12-14, ethoxylated, sulphates, sodium salts | LD <sub>50</sub> | > 2000            | Rat     | OECD 402 (EU B.3) |                   |

## Acute inhalative toxicity

| Ingredient(s)  | Endpoint         | Value (mg/l)      | Species | Method           | Exposure time (h) |
|--|------------------|-------------------|---------|------------------|-------------------|
| 2-butoxyethanol  | LC <sub>50</sub> | > 2 (mist)        | Rat     | Method not given | 4                 |
| disodium metasilicate                                  |                  | No data available |         |                  |                   |
| tetrapotassium pyrophosphate                           | LC <sub>50</sub> | > 1.1             | Rat     | Method not given | 4                 |
| alcohols, C12-14, ethoxylated, sulphates, sodium salts |                  | No data available |         |                  |                   |

**Irritation and corrosivity**

## Skin irritation and corrosivity

| Ingredient(s)  | Result       | Species | Method            | Exposure time |
|--|--------------|---------|-------------------|---------------|
| 2-butoxyethanol  | Irritant     | Rabbit  | Method not given  |               |
| disodium metasilicate                                  | Corrosive    |         | Method not given  |               |
| tetrapotassium pyrophosphate                           | Not irritant |         | Method not given  |               |
| alcohols, C12-14, ethoxylated, sulphates, sodium salts | Irritant     | Rabbit  | OECD 404 (EU B.4) |               |

## Eye irritation and corrosivity

| Ingredient(s)  | Result        | Species | Method            | Exposure time |
|--|---------------|---------|-------------------|---------------|
| 2-butoxyethanol  | Irritant      | Rabbit  | OECD 405 (EU B.5) |               |
| disodium metasilicate                                  | Corrosive     |         | Method not given  |               |
| tetrapotassium pyrophosphate                           | Irritant      |         | Method not given  |               |
| alcohols, C12-14, ethoxylated, sulphates, sodium salts | Severe damage | Rabbit  | OECD 405 (EU B.5) |               |

## Respiratory tract irritation and corrosivity

| Ingredient(s)  | Result            | Species | Method | Exposure time |
|--|-------------------|---------|--------|---------------|
| 2-butoxyethanol  | No data available |         |        |               |
| disodium metasilicate                                  | No data available |         |        |               |
| tetrapotassium pyrophosphate                           | No data available |         |        |               |
| alcohols, C12-14, ethoxylated, sulphates, sodium salts | No data available |         |        |               |

**Sensitisation**

## Sensitisation by skin contact

| Ingredient(s)  | Result            | Species    | Method                   | Exposure time (h) |
|--|-------------------|------------|--------------------------|-------------------|
| 2-butoxyethanol  | Not sensitising   | Guinea pig | OECD 406 (EU B.6) / GPMT |                   |
| disodium metasilicate                                  | No data available |            |                          |                   |
| tetrapotassium pyrophosphate                           | Not sensitising   |            | Method not given         |                   |
| alcohols, C12-14, ethoxylated, sulphates, sodium salts | Not sensitising   | Guinea pig | OECD 406 (EU B.6) / GPMT |                   |

## Sensitisation by inhalation

| Ingredient(s)   | Result            | Species | Method | Exposure time |
|-----------------|-------------------|---------|--------|---------------|
| 2-butoxyethanol | No data available |         |        |               |

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|  |                   |  |  |
|--|-------------------|--|--|
| disodium metasilicate                                  | No data available |  |  |
| tetrapotassium pyrophosphate                           | No data available |  |  |
| alcohols, C12-14, ethoxylated, sulphates, sodium salts | 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)   |
|--|---|--------------------------------|---|--------------------|
| 2-butoxyethanol  | No evidence for mutagenicity, negative test results | OECD 471 (EU B.12/13)          | No data available                                   |                    |
| disodium metasilicate                                  | No data available                                   |                                | No data available                                   |                    |
| tetrapotassium pyrophosphate                           | No data available                                   |                                | No data available                                   |                    |
| alcohols, C12-14, ethoxylated, sulphates, sodium salts | No evidence for mutagenicity, negative test results | OECD 471 (EU B.12/13) OECD 476 | No evidence for mutagenicity, negative test results | OECD 475 (EU B.11) |

## Carcinogenicity

| Ingredient(s)  | Effect   |
|--|--|
| 2-butoxyethanol  | No evidence for carcinogenicity, negative test results |
| disodium metasilicate                                  | No data available                                      |
| tetrapotassium pyrophosphate                           | No data available                                      |
| alcohols, C12-14, ethoxylated, sulphates, sodium salts | No evidence for carcinogenicity, weight-of-evidence    |

## Toxicity for reproduction

| Ingredient(s)  | Endpoint | Specific effect        | Value (mg/kg bw/d) | Species | Method                   | Exposure time | Remarks and other effects reported    |
|--|----------|------------------------|--------------------|---------|--------------------------|---------------|---------------------------------------|
| 2-butoxyethanol  |          |                        | No data available  |         |                          |               |                                       |
| disodium metasilicate                                  |          |                        | No data available  |         |                          |               |                                       |
| tetrapotassium pyrophosphate                           |          |                        | No data available  |         |                          |               |                                       |
| alcohols, C12-14, ethoxylated, sulphates, sodium salts | NOAEL    | Developmental toxicity | > 1000             | Rat     | OECD 414 (EU B.31), oral |               | No evidence for reproductive toxicity |

**Repeated dose toxicity**

## Sub-acute or sub-chronic oral toxicity

| Ingredient(s)  | Endpoint | Value (mg/kg bw/d) | Species | Method             | Exposure time (days) | Specific effects and organs affected |
|--|----------|--------------------|---------|--------------------|----------------------|--------------------------------------|
| 2-butoxyethanol  |          | No data available  |         |                    |                      |                                      |
| disodium metasilicate                                  | NOAEL    | > 227 - 237        | Rat     | Method not given   |                      |                                      |
| tetrapotassium pyrophosphate                           | NOAEL    | No data available  | Rat     | OECD 408 (EU B.26) | 90 days              |                                      |
| alcohols, C12-14, ethoxylated, sulphates, sodium salts | NOAEL    | > 225              |         | OECD 408 (EU B.26) | 90                   |                                      |

## Sub-chronic dermal toxicity

| Ingredient(s)  | Endpoint | Value (mg/kg bw/d) | Species | Method | Exposure time (days) | Specific effects and organs affected |
|--|----------|--------------------|---------|--------|----------------------|--------------------------------------|
| 2-butoxyethanol  |          | No data available  |         |        |                      |                                      |
| disodium metasilicate                                  |          | No data available  |         |        |                      |                                      |
| tetrapotassium pyrophosphate                           |          | No data available  |         |        |                      |                                      |
| alcohols, C12-14, ethoxylated, sulphates, sodium salts |          | 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 |
|--|----------|--------------------|---------|--------|----------------------|--------------------------------------|
| 2-butoxyethanol  |          | No data available  |         |        |                      |                                      |
| disodium metasilicate                                  |          | No data available  |         |        |                      |                                      |
| tetrapotassium pyrophosphate                           |          | No data available  |         |        |                      |                                      |
| alcohols, C12-14, ethoxylated, sulphates, sodium salts |          | 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 |
|-----------------------|----------------|----------|--------------------|---------|--------|---------------|--------------------------------------|--------|
| 2-butoxyethanol       |                |          | No data available  |         |        |               |                                      |        |
| disodium metasilicate |                |          | No data            |         |        |               |                                      |        |

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|--|--|--|-------------------|--|--|--|--|
|  |  |  | available         |  |  |  |  |
| tetrapotassium pyrophosphate                           |  |  | No data available |  |  |  |  |
| alcohols, C12-14, ethoxylated, sulphates, sodium salts |  |  | No data available |  |  |  |  |

## STOT-single exposure

| Ingredient(s)  | Affected organ(s) |
|--|-------------------|
| 2-butoxyethanol  | No data available |
| disodium metasilicate                                  | No data available |
| tetrapotassium pyrophosphate                           | No data available |
| alcohols, C12-14, ethoxylated, sulphates, sodium salts | No data available |

## STOT-repeated exposure

| Ingredient(s)  | Affected organ(s) |
|--|-------------------|
| 2-butoxyethanol  | No data available |
| disodium metasilicate                                  | No data available |
| tetrapotassium pyrophosphate                           | No data available |
| alcohols, C12-14, ethoxylated, sulphates, sodium salts | 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) |
|--|------------------|--------------|----------------------------|-------------------|-------------------|
| 2-butoxyethanol  | LC <sub>50</sub> | > 100        | Fish                       | Method not given  | 96                |
| disodium metasilicate                                  | LC <sub>50</sub> | 210          | <i>Brachydanio rerio</i>   | Method not given  | 96                |
| tetrapotassium pyrophosphate                           | LC <sub>50</sub> | > 100        | <i>Oncorhynchus mykiss</i> | OECD 203 (EU C.1) | 96                |
| alcohols, C12-14, ethoxylated, sulphates, sodium salts | LC <sub>50</sub> | 7.1          | Fish                       | OECD 203 (EU C.1) | 96                |

Aquatic short-term toxicity - crustacea

| Ingredient(s)  | Endpoint         | Value (mg/l) | Species                     | Method            | Exposure time (h) |
|--|------------------|--------------|-----------------------------|-------------------|-------------------|
| 2-butoxyethanol  | EC <sub>50</sub> | > 100        | <i>Daphnia magna Straus</i> | Method not given  | 24                |
| disodium metasilicate                                  | EC <sub>50</sub> | 1700         | <i>Daphnia magna Straus</i> | Method not given  | 48                |
| tetrapotassium pyrophosphate                           | EC <sub>50</sub> | > 100        | <i>Daphnia magna Straus</i> | OECD 202 (EU C.2) | 48                |
| alcohols, C12-14, ethoxylated, sulphates, sodium salts | EC <sub>50</sub> | 7.4          | <i>Daphnia magna Straus</i> | OECD 202 (EU C.2) | 48                |

Aquatic short-term toxicity - algae

| Ingredient(s)  | Endpoint         | Value (mg/l)      | Species                                | Method            | Exposure time (h) |
|--|------------------|-------------------|--|-------------------|-------------------|
| 2-butoxyethanol  | EC <sub>50</sub> | > 100             | Not specified                          | Method not given  | 168               |
| disodium metasilicate                                  | EC <sub>50</sub> | 207               | <i>Chlorella pyrenoidosa</i>           | Method not given  | 72                |
| tetrapotassium pyrophosphate                           |                  | No data available |  |                   | -                 |
| alcohols, C12-14, ethoxylated, sulphates, sodium salts | EC <sub>50</sub> | 10 - 100          | <i>Pseudokirchneriella subcapitata</i> | OECD 201 (EU C.3) | 72                |

Aquatic short-term toxicity - marine species

| Ingredient(s)         | Endpoint | Value (mg/l)      | Species | Method | Exposure time (days) |
|-----------------------|----------|-------------------|---------|--------|----------------------|
| 2-butoxyethanol       |          | No data available |         |        | -                    |
| disodium metasilicate |          | No data           |         |        | -                    |

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|  |  |                   |  |  |   |
|--|--|-------------------|--|--|---|
|  |  | available         |  |  |   |
| tetrapotassium pyrophosphate                           |  | No data available |  |  | - |
| alcohols, C12-14, ethoxylated, sulphates, sodium salts |  | No data available |  |  | - |

## Impact on sewage plants - toxicity to bacteria

| Ingredient(s)  | Endpoint         | Value (mg/l)      | Inoculum                  | Method             | Exposure time |
|--|------------------|-------------------|---------------------------|--------------------|---------------|
| 2-butoxyethanol  | EC <sub>0</sub>  | 700               | <i>Pseudomonas putida</i> | Method not given   | 16 hour(s)    |
| disodium metasilicate                                  | EC <sub>50</sub> | > 100             | <i>Activated sludge</i>   | Method not given   | 3 hour(s)     |
| tetrapotassium pyrophosphate                           |                  | No data available |                           |                    |               |
| alcohols, C12-14, ethoxylated, sulphates, sodium salts | EC <sub>0</sub>  | > 100             |                           | DIN 38412, Part 27 |               |

## Aquatic long-term toxicity

## Aquatic long-term toxicity - fish

| Ingredient(s)  | Endpoint | Value (mg/l)      | Species              | Method   | Exposure time | Effects observed |
|--|----------|-------------------|----------------------|----------|---------------|------------------|
| 2-butoxyethanol  |          | No data available |                      |          |               |                  |
| disodium metasilicate                                  |          | No data available |                      |          |               |                  |
| tetrapotassium pyrophosphate                           |          | No data available |                      |          |               |                  |
| alcohols, C12-14, ethoxylated, sulphates, sodium salts | NOEC     | 1 - 10            | <i>Not specified</i> | OECD 203 | 45 day(s)     |                  |

## Aquatic long-term toxicity - crustacea

| Ingredient(s)  | Endpoint | Value (mg/l)      | Species            | Method   | Exposure time | Effects observed |
|--|----------|-------------------|--------------------|----------|---------------|------------------|
| 2-butoxyethanol  |          | No data available |                    |          |               |                  |
| disodium metasilicate                                  |          | No data available |                    |          |               |                  |
| tetrapotassium pyrophosphate                           |          | No data available |                    |          |               |                  |
| alcohols, C12-14, ethoxylated, sulphates, sodium salts | NOEC     | 0.27              | <i>Daphnia sp.</i> | OECD 211 | 21 day(s)     |                  |

## 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 |
|--|----------|---------------------------|---------|--------|----------------------|------------------|
| 2-butoxyethanol  |          | No data available         |         |        | -                    |                  |
| disodium metasilicate                                  |          | No data available         |         |        | -                    |                  |
| tetrapotassium pyrophosphate                           |          | No data available         |         |        | -                    |                  |
| alcohols, C12-14, ethoxylated, sulphates, sodium salts |          | 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 |
|--|----------|-----------------------|---------|--------|----------------------|------------------|
| 2-butoxyethanol  |          | No data available     |         |        | -                    |                  |
| disodium metasilicate                                  |          | No data available     |         |        | -                    |                  |
| tetrapotassium pyrophosphate                           |          | No data available     |         |        | -                    |                  |
| alcohols, C12-14, ethoxylated, sulphates, sodium salts |          | No data available     |         |        | -                    |                  |

## Terrestrial toxicity - plants, if available:

| Ingredient(s)  | Endpoint | Value (mg/kg dw soil) | Species | Method | Exposure time (days) | Effects observed |
|--|----------|-----------------------|---------|--------|----------------------|------------------|
| 2-butoxyethanol  |          | No data available     |         |        | -                    |                  |
| disodium metasilicate                                  |          | No data available     |         |        | -                    |                  |
| tetrapotassium pyrophosphate                           |          | No data available     |         |        | -                    |                  |
| alcohols, C12-14, ethoxylated, sulphates, sodium salts |          | No data available     |         |        | -                    |                  |

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Terrestrial toxicity - birds, if available:

| Ingredient(s)  | Endpoint | Value             | Species | Method | Exposure time (days) | Effects observed |
|--|----------|-------------------|---------|--------|----------------------|------------------|
| 2-butoxyethanol  |          | No data available |         |        | -                    |                  |
| disodium metasilicate                                  |          | No data available |         |        | -                    |                  |
| tetrapotassium pyrophosphate                           |          | No data available |         |        | -                    |                  |
| alcohols, C12-14, ethoxylated, sulphates, sodium salts |          | No data available |         |        | -                    |                  |

Terrestrial toxicity - beneficial insects, if available:

| Ingredient(s)  | Endpoint | Value (mg/kg dw soil) | Species | Method | Exposure time (days) | Effects observed |
|--|----------|-----------------------|---------|--------|----------------------|------------------|
| 2-butoxyethanol  |          | No data available     |         |        | -                    |                  |
| disodium metasilicate                                  |          | No data available     |         |        | -                    |                  |
| tetrapotassium pyrophosphate                           |          | No data available     |         |        | -                    |                  |
| alcohols, C12-14, ethoxylated, sulphates, sodium salts |          | No data available     |         |        | -                    |                  |

Terrestrial toxicity - soil bacteria, if available:

| Ingredient(s)  | Endpoint | Value (mg/kg dw soil) | Species | Method | Exposure time (days) | Effects observed |
|--|----------|-----------------------|---------|--------|----------------------|------------------|
| 2-butoxyethanol  |          | No data available     |         |        | -                    |                  |
| disodium metasilicate                                  |          | No data available     |         |        | -                    |                  |
| tetrapotassium pyrophosphate                           |          | No data available     |         |        | -                    |                  |
| alcohols, C12-14, ethoxylated, sulphates, sodium salts |          | No data available     |         |        | -                    |                  |

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

Abiotic degradation - photodegradation in air, if available:

Abiotic degradation - hydrolysis, if available:

Abiotic degradation - other processes, if available:

**Biodegradation**

Ready biodegradability - aerobic conditions

| Ingredient(s)  | Inoculum | Analytical method          | DT <sub>50</sub>    | Method           | Evaluation                           |
|--|----------|----------------------------|---------------------|------------------|--------------------------------------|
| 2-butoxyethanol  |          |                            | 100 % in 28 day(s)  | OECD 301B        | Readily biodegradable                |
| disodium metasilicate                                  |          |                            |                     |                  | Not applicable (inorganic substance) |
| tetrapotassium pyrophosphate                           |          |                            |                     |                  | Not applicable (inorganic substance) |
| alcohols, C12-14, ethoxylated, sulphates, sodium salts |          | CO <sub>2</sub> production | > 60 % in 28 day(s) | Method not given | Readily biodegradable                |

Ready biodegradability - anaerobic and marine conditions, if available:

Degradation in relevant environmental compartments, if available:

**12.3 Bioaccumulative potential**

Partition coefficient n-octanol/water (log Kow)

| Ingredient(s)  | Value             | Method           | Evaluation                  | Remark |
|--|-------------------|------------------|-----------------------------|--------|
| 2-butoxyethanol  | 0.81              | OECD 107         | No bioaccumulation expected |        |
| disodium metasilicate                                  | No data available |                  |                             |        |
| tetrapotassium pyrophosphate                           | -2                | Method not given | No bioaccumulation expected |        |
| alcohols, C12-14, ethoxylated, sulphates, sodium salts | 0.3               | Method not given | No bioaccumulation expected |        |

Bioconcentration factor (BCF)

| Ingredient(s)                             | Value             | Species | Method           | Evaluation                  | Remark |
|---|-------------------|---------|------------------|-----------------------------|--------|
| 2-butoxyethanol                           | No data available |         |                  |                             |        |
| disodium metasilicate                     | No data available |         |                  |                             |        |
| tetrapotassium pyrophosphate              | No data available |         |                  |                             |        |
| alcohols, C12-14, ethoxylated, sulphates, | < 3               |         | Method not given | No bioaccumulation expected |        |

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|              |  |  |  |  |  |
|--------------|--|--|--|--|--|
| sodium salts |  |  |  |  |  |
|--------------|--|--|--|--|--|

**12.4 Mobility in soil**

Adsorption/Desorption to soil or sediment

| Ingredient(s)  | Adsorption coefficient<br>Log Koc | Desorption coefficient<br>Log Koc(des) | Method | Soil/sediment type | Evaluation                                       |
|--|-----------------------------------|--|--------|--------------------|--|
| 2-butoxyethanol  | No data available                 |  |        |                    | Potential for mobility in soil, soluble in water |
| disodium metasilicate                                  | No data available                 |  |        |                    |  |
| tetrapotassium pyrophosphate                           | No data available                 |  |        |                    |  |
| alcohols, C12-14, ethoxylated, sulphates, sodium salts | No data available                 |  |        |                    |  |

**12.5 Other adverse effects**

No other adverse effects known.

**SECTION 13: Disposal considerations****13.1 Waste treatment methods****Waste from residues / unused products:**

The concentrated contents or contaminated packaging should be disposed of by a certified handler or according to the site permit. Release of waste to sewers is discouraged. The cleaned packaging material is suitable for energy recovery or recycling in line with local legislation.

**Empty packaging****Recommendation:**

Dispose of observing national or local regulations.

**Suitable cleaning agents:**

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

Class: -

**14.4 Packing group:** Non-dangerous goods**14.5 Environmental hazards:** Non-dangerous goods**14.6 Special precautions for user:** Non-dangerous goods**14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code:** Non-dangerous goods**Hazchem code:** None allocated**SECTION 15: Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****National regulations**

Globally Harmonised System of Classification and Labelling of Chemicals (GHS) as published by Safework Australia.

**Poison schedule**

Classified as a Schedule 5 (S5) Poison using the criteria in the Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP).

**Classification**

Globally Harmonised System of Classification and Labelling of Chemicals (GHS) as published by Safework Australia.

**Inventory listing(s)**

AICS (Australian Inventory of Chemical Substances): All components are listed on AICS, 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:** MS31000119**Version:** 01.0**Revision:** 2018-02-02**Full text of the H phrases mentioned in section 3:****Additional information:**

**Respirators:** In general the use of respirators should be limited and engineering controls employed to avoid exposure. If respiratory equipment must be worn ensure correct respirator selection and training is undertaken. Remember that some respirators may be extremely uncomfortable when used for long periods. The use of air powered or air supplied respirators should be considered where prolonged or repeated use is necessary.

**Work practices - solvents:** Organic solvents may present both a health and flammability hazard. It is recommended that engineering controls should be adopted to reduce exposure where practicable (for example, if using indoors, ensure explosion proof extraction ventilation is available). Flammable or combustible liquids with explosive limits have the potential for ignition from static discharge. Refer to AS 1020 (The

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control of undesirable static electricity) and AS 1940 (The storage and handling of flammable and combustible liquids) for control procedures.

**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).

**Personal protective equipment guidelines:** The recommendation for protective equipment contained within this report is provided as a guide only. Factors such as method of application, working environment, quantity used, product concentration and the availability of engineering controls should be considered before final selection of personal protective equipment is made.

**Health effects from exposure:** It should be noted that the effects from exposure to this product will depend on several factors including: frequency and duration of use; quantity used; effectiveness of control measures; protective equipment used and method of application. Given that it is impractical to prepare a Safety Data Sheet which would encompass all possible scenarios, it is anticipated that users will assess the risks and apply control methods where appropriate.

**Abbreviations and acronyms:**

- AISE - The international Association for Soaps, Detergents and Maintenance Products
- ATE - Acute Toxicity Estimate
- LC50 - Lethal Concentration, 50% / Median Lethal Concentration
- DNEL - Derived No Effect Limit
- LD50 - Lethal Dose, 50% / Median Lethal dose
- EUH - CLP Specific hazard statement
- STOT-RE - Specific target organ toxicity (repeated exposure)
- PBT - Persistent, Bioaccumulative and Toxic
- PNEC - Predicted No Effect Concentration
- STOT-SE - Specific target organ toxicity (single exposure)
- EC No. - European Community Number
- REACH number - REACH registration number, without supplier specific part
- vPvB - very Persistent and very Bioaccumulative

**End of Safety Data Sheet**