



CLAX 100 22A1

Revision: 2018-06-22

Version: 01.1

SECTION 1: Identification of the substance/mixture and supplier

1.1 Product identifier

Product name: CLAX 100 22A1

1.2 Recommended use and restrictions on use

Identified uses:

Laundry detergent

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: +64 9 813 9800; 0800 803 615 (toll free)

Fax: + 64 9 813 9801

Website: www.diversey.com

1.4 Emergency telephone number

Call 0800 243 622 (24 hrs)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

HSNO Classification

3.1C - Flammable liquids: medium hazard

6.1D - Acutely toxic (oral)

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

9.4C - Harmful to terrestrial invertebrates

GHS Equivalent Classification

Flammable liquids, Category 3

Acute toxicity, oral, Category 4

Skin irritation, Category 3

Serious eye damage, Category 1

Acute aquatic toxicity, Category 2

Terrestrial invertebrates, Category 3

2.2 Label elements



Signal word: Danger

Hazard statements:

H226 - Flammable liquid and vapour.

H302 - Harmful if swallowed.

H316 - Causes mild skin irritation.

H318 - Causes serious eye damage.

H401 - Toxic to aquatic life.

H443 - Harmful to terrestrial invertebrates.

Prevention statement(s):

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P233 - Keep container tightly closed.

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

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P270 - Do not eat, drink or smoke when using this product.

P280 - Wear eye or face protection.

Response statement(s):

P301 + P312 - IF SWALLOWED: Call a POISON CENTRE, doctor or physician if you feel unwell.

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.

P330 - Rinse mouth.

P370 + P378 - In case of fire: Use chemical powder to extinguish.

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 |
|--------------------------|------------|-----------|----------------|
| alkyl alcohol ethoxylate | 64425-86-1 | Polymer* | 10-30 |
| alkyl alcohol ethoxylate | 68213-23-0 | Polymer* | 10-30 |
| propan-2-ol | 67-63-0 | 200-661-7 | 3-10 |
| alkyl alcohol ethoxylate | 68131-39-5 | Polymer* | 3-10 |
| alkyl alcohol alkoxyate | 9038-95-3 | Polymer* | 1-3 |
| sodium benzoate | 532-32-1 | 208-534-8 | 0.1-1 |
| 2-phenoxyethanol | 122-99-6 | 204-589-7 | 0.1-1 |
| polydimethylsiloxane | 63148-62-9 | Polymer* | 0.1-1 |

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****General Information:**

Symptoms of intoxication may even occur after several hours. It is recommended to continue medical observation for at least 48 hours after the incident.

Inhalation:

Remove person to fresh air and keep comfortable for breathing. Get medical attention or advice if you feel unwell.

Skin contact:

Wash skin with plenty of lukewarm, gently flowing water. If skin irritation or rash 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. Call a POISON CENTRE, doctor or physician. 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.

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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

•3Z

•3 - Alcohol resistant foam is the preferred firefighting medium but, if it is not available, normal foam can be used

Z - Full fire kit and breathing apparatus. Contain.

SECTION 6: Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures**

Wear eye/face protection.

6.2 Environmental precautions

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

6.3 Methods and material for containment and cleaning up

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

6.4 Reference to other sections

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

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

No special precautions required.

Measures required to protect the environment:

For environmental exposure controls see subsection 8.2.

Advices on general occupational hygiene:

Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs. Do not mix with other products unless advised by 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. Use personal protective equipment as required. Avoid contact with eyes. Do not eat, drink or smoke when using this product. 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) |
|---------------|----------------------------------|-----------------------------------|------------------|
| propan-2-ol | 400 ppm 983 mg/m ³ | 500 ppm 1230 mg/m ³ | |

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.

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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: Should not reach sewage water or drainage ditch undiluted or unneutralised.

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

| | Method / remark |
|---|--|
| Physical State: Liquid | |
| Colour: Clear, Colourless | |
| Odour: Product specific | |
| Odour threshold: Not applicable | |
| pH: ≈ 5 (neat) | ISO 4316 |
| Melting point/freezing point (°C): Not determined | Not relevant to classification of this product |
| Initial boiling point and boiling range (°C): Not determined | |
| Flash point (°C): ≈ 45 | closed cup |
| Sustained combustion: The product does not sustain combustion (<i>UN Manual of Tests and Criteria, section 32, L.2</i>) | UN Manual of Tests and Criteria, section 32, L.2 |
| Evaporation rate: Not determined | Not relevant to classification of this product |
| Flammability (solid, gas): Not applicable to liquids | |
| Upper/lower flammability limit (%): Not determined | |
| Vapour pressure: Not determined | |
| Vapour density: Not determined | Not relevant to classification of this product |
| Relative density: ≈ 0.98 (20 °C) | OECD 109 (EU A.3) |
| Solubility in / Miscibility with Water: Fully miscible | |
| Partition coefficient: n-octanol/water No information available. Substance data, partition coefficient n-octanol/water (log Kow): see subsection 12.3 | |
| Autoignition temperature: Not determined | |
| Decomposition temperature: Not applicable. | |
| Viscosity: ≈ 50 mPa.s (20 °C) | |
| Explosive properties: Not explosive. Vapours may form explosive mixtures with air. | |
| 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

None known under normal use conditions.

10.6 Hazardous decomposition products

None known under normal storage and use conditions.

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

Mixture data:

Relevant calculated ATE(s):

ATE - Oral (mg/kg): 1300
ATE - Dermal (mg/kg): >5000

ATE - Inhalatory, vapours (mg/l): >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) |
|--------------------------|------------------|-------------------|---------|-------------------|-------------------|
| alkyl alcohol ethoxylate | | No data available | | | |
| alkyl alcohol ethoxylate | LD ₅₀ | > 300 - =< 2000 | | OECD 401 (EU B.1) | |
| propan-2-ol | LD ₅₀ | 3570 | Rat | Method not given | |
| alkyl alcohol ethoxylate | | No data available | | | |
| alkyl alcohol alkoxyate | LD ₅₀ | 200-2000 | Rat | Method not given | |
| sodium benzoate | LD ₅₀ | > 2000 | Rat | Method not given | |
| 2-phenoxyethanol | LD ₅₀ | 1840 | Rat | Method not given | |
| polydimethylsiloxane | | No data available | | | |

Acute dermal toxicity

| Ingredient(s) | Endpoint | Value (mg/kg) | Species | Method | Exposure time (h) |
|--------------------------|------------------|-------------------|---------|------------------|-------------------|
| alkyl alcohol ethoxylate | | No data available | | | |
| alkyl alcohol ethoxylate | | No data available | | | |
| propan-2-ol | LD ₅₀ | > 2000 | Rabbit | Method not given | |
| alkyl alcohol ethoxylate | | No data available | | | |
| alkyl alcohol alkoxyate | | No data available | | | |
| sodium benzoate | LD ₅₀ | > 2000 | Rabbit | Method not given | |
| 2-phenoxyethanol | LD ₅₀ | > 2214 | Rabbit | Method not given | |
| polydimethylsiloxane | | No data available | | | |

Acute inhalative toxicity

| Ingredient(s) | Endpoint | Value (mg/l) | Species | Method | Exposure time (h) |
|--------------------------|------------------|-------------------|---------|-------------------|-------------------|
| alkyl alcohol ethoxylate | | No data available | | | |
| alkyl alcohol ethoxylate | | No data available | | | |
| propan-2-ol | LC ₅₀ | > 25 (vapour) | Rat | OECD 403 (EU B.2) | 6 |
| alkyl alcohol ethoxylate | | No data available | | | |
| alkyl alcohol alkoxyate | | No data available | | | |
| sodium benzoate | LC ₅₀ | > 12.2 | Rat | Method not given | |
| 2-phenoxyethanol | LC ₀ | > 1 (mist) | Rat | Method not given | 6 |
| polydimethylsiloxane | | No data available | | | |

Irritation and corrosivity

Skin irritation and corrosivity

| Ingredient(s) | Result | Species | Method | Exposure time |
|--------------------------|-------------------|---------|----------------------------------|---------------|
| alkyl alcohol ethoxylate | No data available | | | |
| alkyl alcohol ethoxylate | Not irritant | | OECD 404 (EU B.4) | |
| propan-2-ol | Not irritant | Rabbit | OECD 404 (EU B.4) | |
| alkyl alcohol ethoxylate | No data available | | | |
| alkyl alcohol alkoxyate | Not irritant | Rabbit | OECD 404 (EU B.4) Read across | |
| sodium benzoate | Not irritant | Rabbit | OECD 404 (EU B.4) | |
| 2-phenoxyethanol | Not irritant | Rabbit | OECD 404 (EU B.4) | |
| polydimethylsiloxane | No data available | | | |

Eye irritation and corrosivity

| Ingredient(s) | Result | Species | Method | Exposure time |
|--------------------------|-------------------|---------|-------------------|---------------|
| alkyl alcohol ethoxylate | No data available | | | |
| alkyl alcohol ethoxylate | Severe damage | | OECD 405 (EU B.5) | |
| propan-2-ol | Irritant | Rabbit | OECD 405 (EU B.5) | |

| | | | | |
|--------------------------|---------------------------|--------|----------------------------------|--|
| alkyl alcohol ethoxylate | No data available | | | |
| alkyl alcohol alkoxylate | Not corrosive or irritant | Rabbit | OECD 405 (EU B.5) Read across | |
| sodium benzoate | Irritant | Rabbit | OECD 405 (EU B.5) | |
| 2-phenoxyethanol | Irritant | Rabbit | OECD 405 (EU B.5) | |
| polydimethylsiloxane | No data available | | | |

Respiratory tract irritation and corrosivity

| Ingredient(s) | Result | Species | Method | Exposure time |
|--------------------------|-------------------|---------|--------|---------------|
| alkyl alcohol ethoxylate | No data available | | | |
| alkyl alcohol alkoxylate | No data available | | | |
| propan-2-ol | No data available | | | |
| alkyl alcohol ethoxylate | No data available | | | |
| alkyl alcohol alkoxylate | No data available | | | |
| sodium benzoate | No data available | | | |
| 2-phenoxyethanol | No data available | | | |
| polydimethylsiloxane | No data available | | | |

Sensitisation

Sensitisation by skin contact

| Ingredient(s) | Result | Species | Method | Exposure time (h) |
|--------------------------|-------------------|------------|-------------------------------------|-------------------|
| alkyl alcohol ethoxylate | No data available | | | |
| alkyl alcohol ethoxylate | No data available | | | |
| propan-2-ol | Not sensitising | Guinea pig | OECD 406 (EU B.6) / Buehler test | |
| alkyl alcohol ethoxylate | No data available | | | |
| alkyl alcohol alkoxylate | No data available | | | |
| sodium benzoate | Not sensitising | | Weight of evidence | |
| 2-phenoxyethanol | Not sensitising | Guinea pig | OECD 406 (EU B.6) / GPMT | |
| polydimethylsiloxane | No data available | | | |

Sensitisation by inhalation

| Ingredient(s) | Result | Species | Method | Exposure time |
|--------------------------|-------------------|---------|--------|---------------|
| alkyl alcohol ethoxylate | No data available | | | |
| alkyl alcohol ethoxylate | No data available | | | |
| propan-2-ol | No data available | | | |
| alkyl alcohol ethoxylate | No data available | | | |
| alkyl alcohol alkoxylate | No data available | | | |
| sodium benzoate | No data available | | | |
| 2-phenoxyethanol | No data available | | | |
| polydimethylsiloxane | 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) |
|--------------------------|---|-----------------------|--|--------------------|
| alkyl alcohol ethoxylate | No data available | | No data available | |
| alkyl alcohol ethoxylate | No evidence for mutagenicity | Read across | No data available | |
| propan-2-ol | No evidence for mutagenicity, negative test results No evidence of genotoxicity, negative test results | OECD 471 (EU B.12/13) | No evidence of genotoxicity, negative test results | OECD 474 (EU B.12) |
| alkyl alcohol ethoxylate | No data available | | No data available | |
| alkyl alcohol alkoxylate | No data available | | No data available | |
| sodium benzoate | No data available | | No data available | |
| 2-phenoxyethanol | No evidence for mutagenicity, negative test results | Method not given | No data available | |
| polydimethylsiloxane | No data available | | No data available | |

Carcinogenicity

| Ingredient(s) | Effect |
|--------------------------|-------------------|
| alkyl alcohol ethoxylate | No data available |
| alkyl alcohol ethoxylate | No data available |
| propan-2-ol | No data available |
| alkyl alcohol ethoxylate | No data available |
| alkyl alcohol alkoxylate | No data available |
| sodium benzoate | No data available |
| 2-phenoxyethanol | No data available |
| polydimethylsiloxane | No data available |

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Toxicity for reproduction

| Ingredient(s) | Endpoint | Specific effect | Value (mg/kg bw/d) | Species | Method | Exposure time | Remarks and other effects reported |
|--------------------------|----------|-----------------|--------------------|---------|--------|---------------|---------------------------------------|
| alkyl alcohol ethoxylate | | | No data available | | | | |
| alkyl alcohol ethoxylate | | | No data available | | | | |
| propan-2-ol | | | No data available | | | | |
| alkyl alcohol ethoxylate | | | No data available | | | | |
| alkyl alcohol alkoxyate | | | No data available | | | | |
| sodium benzoate | | | No data available | | | | |
| 2-phenoxyethanol | | | No data available | | | | No evidence for reproductive toxicity |
| polydimethylsiloxane | | | No data available | | | | |

Repeated dose toxicity

Sub-acute or sub-chronic oral toxicity

| Ingredient(s) | Endpoint | Value (mg/kg bw/d) | Species | Method | Exposure time (days) | Specific effects and organs affected |
|--------------------------|----------|--------------------|---------|--------|----------------------|--------------------------------------|
| alkyl alcohol ethoxylate | | No data available | | | | |
| alkyl alcohol ethoxylate | | No data available | | | | |
| propan-2-ol | | No data available | | | | |
| alkyl alcohol ethoxylate | | No data available | | | | |
| alkyl alcohol alkoxyate | | No data available | | | | |
| sodium benzoate | | No data available | | | | |
| 2-phenoxyethanol | | No data available | | | | |
| polydimethylsiloxane | | 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 |
|--------------------------|----------|--------------------|---------|--------|----------------------|--------------------------------------|
| alkyl alcohol ethoxylate | | No data available | | | | |
| alkyl alcohol ethoxylate | | No data available | | | | |
| propan-2-ol | | No data available | | | | |
| alkyl alcohol ethoxylate | | No data available | | | | |
| alkyl alcohol alkoxyate | | No data available | | | | |
| sodium benzoate | | No data available | | | | |
| 2-phenoxyethanol | | No data available | | | | |
| polydimethylsiloxane | | 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 |
|--------------------------|----------|--------------------|---------|--------|----------------------|--------------------------------------|
| alkyl alcohol ethoxylate | | No data available | | | | |
| alkyl alcohol ethoxylate | | No data available | | | | |
| propan-2-ol | | No data available | | | | |
| alkyl alcohol ethoxylate | | No data available | | | | |
| alkyl alcohol alkoxyate | | No data available | | | | |
| sodium benzoate | | No data available | | | | |
| 2-phenoxyethanol | | No data available | | | | |
| polydimethylsiloxane | | 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 |
|--------------------------|----------------|----------|--------------------|---------|--------|---------------|--------------------------------------|--------|
| alkyl alcohol ethoxylate | | | No data available | | | | | |
| alkyl alcohol ethoxylate | | | No data available | | | | | |
| propan-2-ol | | | No data available | | | | | |
| alkyl alcohol ethoxylate | | | No data available | | | | | |
| alkyl alcohol alkoxyate | | | No data available | | | | | |
| sodium benzoate | | | No data available | | | | | |
| 2-phenoxyethanol | | | No data available | | | | | |
| polydimethylsiloxane | | | No data available | | | | | |

STOT-single exposure

| Ingredient(s) | Affected organ(s) |
|--------------------------|-------------------|
| alkyl alcohol ethoxylate | No data available |
| alkyl alcohol ethoxylate | No data available |
| propan-2-ol | No data available |
| alkyl alcohol ethoxylate | No data available |
| alkyl alcohol alkoxyate | No data available |
| sodium benzoate | No data available |
| 2-phenoxyethanol | No data available |
| polydimethylsiloxane | No data available |

STOT-repeated exposure

| Ingredient(s) | Affected organ(s) |
|--------------------------|-------------------|
| alkyl alcohol ethoxylate | No data available |
| alkyl alcohol ethoxylate | No data available |
| propan-2-ol | No data available |
| alkyl alcohol ethoxylate | No data available |
| alkyl alcohol alkoxyate | No data available |
| sodium benzoate | No data available |
| 2-phenoxyethanol | No data available |
| polydimethylsiloxane | 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) |
|--------------------------|------------------|-------------------|----------------------------|---------------------|-------------------|
| alkyl alcohol ethoxylate | | No data available | | | |
| alkyl alcohol ethoxylate | LC ₅₀ | > 1 - =< 10 | <i>Fish</i> | ISO 7346 | |
| propan-2-ol | LC ₅₀ | > 100 | <i>Pimephales promelas</i> | Method not given | 48 |
| alkyl alcohol ethoxylate | | No data available | | | |
| alkyl alcohol alkoxyate | LC ₅₀ | > 100 | <i>Brachydanio rerio</i> | OECD 203 (EU C.1) | 96 |
| sodium benzoate | LC ₅₀ | > 100 | <i>Pimephales promelas</i> | Similar to OECD 203 | 96 |
| 2-phenoxyethanol | LC ₅₀ | 344 | <i>Pimephales promelas</i> | Method not given | 96 |
| polydimethylsiloxane | | No data available | | | |

Aquatic short-term toxicity - crustacea

| Ingredient(s) | Endpoint | Value (mg/l) | Species | Method | Exposure time (h) |
|--------------------------|------------------|-------------------|-----------------------------|--------------------|-------------------|
| alkyl alcohol ethoxylate | | No data available | | | |
| alkyl alcohol ethoxylate | EC ₅₀ | > 1 - ≤ 10 | <i>Daphnia</i> | OECD 202 (EU C.2) | |
| propan-2-ol | EC ₅₀ | > 100 | <i>Daphnia magna Straus</i> | Method not given | 48 |
| alkyl alcohol ethoxylate | | No data available | | | |
| alkyl alcohol alkoxyate | EC ₅₀ | > 100 | <i>Daphnia magna Straus</i> | Method not given | 48 |
| sodium benzoate | EC ₅₀ | > 100 | <i>Daphnia magna Straus</i> | Non guideline test | 96 |
| 2-phenoxyethanol | EC ₅₀ | > 500 | <i>Daphnia magna Straus</i> | Method not given | 48 |
| polydimethylsiloxane | | No data available | | | |

Aquatic short-term toxicity - algae

| Ingredient(s) | Endpoint | Value (mg/l) | Species | Method | Exposure time (h) |
|--------------------------|------------------|-------------------|--------------------------------|--|-------------------|
| alkyl alcohol ethoxylate | | No data available | | | |
| alkyl alcohol ethoxylate | EC ₅₀ | > 1 - ≤ 10 | <i>Not specified</i> | OECD 201 (EU C.3) DIN 38412, Part 9 | |
| propan-2-ol | EC ₅₀ | > 100 | <i>Scenedesmus quadricauda</i> | Method not given | 72 |
| alkyl alcohol ethoxylate | | No data available | | | |
| alkyl alcohol alkoxyate | EC ₅₀ | > 100 | <i>Not specified</i> | Method not given | 72 |
| sodium benzoate | EC ₅₀ | > 100 | <i>Not specified</i> | OECD 201 (EU C.3) | 72 |
| 2-phenoxyethanol | EC ₅₀ | > 500 | <i>Desmodesmus subspicatus</i> | DIN 38412, Part 9 | 72 |
| polydimethylsiloxane | | No data available | | | |

Aquatic short-term toxicity - marine species

| Ingredient(s) | Endpoint | Value (mg/l) | Species | Method | Exposure time (days) |
|--------------------------|----------|-------------------|---------|--------|----------------------|
| alkyl alcohol ethoxylate | | No data available | | | |
| alkyl alcohol ethoxylate | | No data available | | | |
| propan-2-ol | | No data available | | | - |
| alkyl alcohol ethoxylate | | No data available | | | |
| alkyl alcohol alkoxyate | | No data available | | | - |
| sodium benzoate | | No data available | | | - |
| 2-phenoxyethanol | | No data available | | | - |
| polydimethylsiloxane | | No data available | | | |

Impact on sewage plants - toxicity to bacteria

| Ingredient(s) | Endpoint | Value (mg/l) | Inoculum | Method | Exposure time |
|--------------------------|------------------|-------------------|--------------------------|--------------------|---------------|
| alkyl alcohol ethoxylate | | No data available | | | |
| alkyl alcohol ethoxylate | EC ₀ | > 100 | <i>Bacteria</i> | DIN 38412 / Part 8 | |
| propan-2-ol | EC ₅₀ | > 1000 | <i>Activated sludge</i> | Method not given | |
| alkyl alcohol ethoxylate | | No data available | | | |
| alkyl alcohol alkoxyate | | No data available | | | |
| sodium benzoate | EC ₅₀ | > 100 | <i>Achromobacter sp.</i> | Method not given | 24 hour(s) |
| 2-phenoxyethanol | EC ₂₀ | 620 | <i>Activated sludge</i> | ISO 8192 | 0.5 hour(s) |
| polydimethylsiloxane | | No data available | | | |

Aquatic long-term toxicity

Aquatic long-term toxicity - fish

| Ingredient(s) | Endpoint | Value (mg/l) | Species | Method | Exposure time | Effects observed |
|--------------------------|----------|--------------|---------|--------|---------------|------------------|
| alkyl alcohol ethoxylate | | No data | | | | |

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| | | | | | | |
|--------------------------|------|-------------------|----------------------------|------------------|-----------|--|
| | | available | | | | |
| alkyl alcohol ethoxylate | | No data available | | | | |
| propan-2-ol | | No data available | | | | |
| alkyl alcohol ethoxylate | | No data available | | | | |
| alkyl alcohol alkoxyate | | No data available | | | | |
| sodium benzoate | | No data available | | | | |
| 2-phenoxyethanol | NOEC | 23 | <i>Pimephales promelas</i> | Method not given | 34 day(s) | |
| polydimethylsiloxane | | No data available | | | | |

Aquatic long-term toxicity - crustacea

| Ingredient(s) | Endpoint | Value (mg/l) | Species | Method | Exposure time | Effects observed |
|--------------------------|----------|-------------------|----------------------|----------|---------------|------------------|
| alkyl alcohol ethoxylate | | No data available | | | | |
| alkyl alcohol ethoxylate | | No data available | | | | |
| propan-2-ol | | No data available | | | | |
| alkyl alcohol ethoxylate | | No data available | | | | |
| alkyl alcohol alkoxyate | | No data available | | | | |
| sodium benzoate | | No data available | | | | |
| 2-phenoxyethanol | NOEC | 9.43 | <i>Daphnia magna</i> | OECD 211 | 21 day(s) | |
| polydimethylsiloxane | | No data available | | | | |

Aquatic toxicity to other aquatic benthic organisms, including sediment-dwelling organisms, if available:

| Ingredient(s) | Endpoint | Value (mg/kg dw sediment) | Species | Method | Exposure time (days) | Effects observed |
|--------------------------|----------|---------------------------|---------|--------|----------------------|------------------|
| alkyl alcohol ethoxylate | | No data available | | | | |
| alkyl alcohol ethoxylate | | No data available | | | | |
| propan-2-ol | | No data available | | | - | |
| alkyl alcohol ethoxylate | | No data available | | | | |
| alkyl alcohol alkoxyate | | No data available | | | - | |
| sodium benzoate | | No data available | | | - | |
| 2-phenoxyethanol | | No data available | | | - | |
| polydimethylsiloxane | | 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 |
|-------------------------|------------------|-----------------------|-----------------------|----------|----------------------|------------------|
| propan-2-ol | | No data available | | | - | |
| alkyl alcohol alkoxyate | | No data available | | | - | |
| sodium benzoate | | No data available | | | - | |
| 2-phenoxyethanol | LD ₅₀ | 1000 | <i>Eisenia fetida</i> | OECD 207 | 14 | |

Terrestrial toxicity - plants, if available:

| Ingredient(s) | Endpoint | Value (mg/kg dw soil) | Species | Method | Exposure time (days) | Effects observed |
|-------------------------|------------------|-----------------------|-----------------------|----------|----------------------|------------------|
| propan-2-ol | | No data available | | | - | |
| alkyl alcohol alkoxyate | | No data available | | | - | |
| sodium benzoate | | No data available | | | - | |
| 2-phenoxyethanol | EC ₅₀ | 34 | <i>Brassica napus</i> | OECD 208 | 19 | |

Terrestrial toxicity - birds, if available:

| Ingredient(s) | Endpoint | Value | Species | Method | Exposure time (days) | Effects observed |
|--------------------------|----------|-------------------|---------|--------|----------------------|------------------|
| propan-2-ol | | No data available | | | - | |
| alkyl alcohol alkoxylate | | No data available | | | - | |
| sodium benzoate | | No data available | | | - | |
| 2-phenoxyethanol | | No data available | | | - | |

Terrestrial toxicity - beneficial insects, if available:

| Ingredient(s) | Endpoint | Value (mg/kg dw soil) | Species | Method | Exposure time (days) | Effects observed |
|--------------------------|----------|-----------------------|---------|--------|----------------------|------------------|
| propan-2-ol | | No data available | | | - | |
| alkyl alcohol alkoxylate | | No data available | | | - | |
| sodium benzoate | | No data available | | | - | |
| 2-phenoxyethanol | | No data available | | | - | |

Terrestrial toxicity - soil bacteria, if available:

| Ingredient(s) | Endpoint | Value (mg/kg dw soil) | Species | Method | Exposure time (days) | Effects observed |
|--------------------------|----------|-----------------------|---------------|----------|----------------------|------------------|
| propan-2-ol | | No data available | | | - | |
| alkyl alcohol alkoxylate | | No data available | | | - | |
| sodium benzoate | | No data available | | | - | |
| 2-phenoxyethanol | | 147 | Not specified | OECD 217 | 7 | |

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 ₅₀ | Method | Evaluation |
|--------------------------|--------------------------|----------------------------|-------------------|-----------|--------------------------------------|
| alkyl alcohol ethoxylate | | | | OECD 301B | Readily biodegradable |
| alkyl alcohol ethoxylate | | | > 70% | OECD 301F | Readily biodegradable |
| propan-2-ol | | | 95 % in 21 day(s) | OECD 301E | Readily biodegradable |
| alkyl alcohol ethoxylate | | | | | Readily biodegradable |
| alkyl alcohol alkoxylate | Activated sludge, aerobe | BOD removal | | OECD 301F | Readily biodegradable |
| sodium benzoate | | CO ₂ production | | OECD 301B | Readily biodegradable |
| 2-phenoxyethanol | | COD removal | 90 % in 28 day(s) | OECD 301F | Readily biodegradable |
| polydimethylsiloxane | | | | | Not applicable (inorganic substance) |

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_{ow})

| Ingredient(s) | Value | Method | Evaluation | Remark |
|--------------------------|-------------------|------------------|-----------------------------|--------|
| alkyl alcohol ethoxylate | No data available | | | |
| alkyl alcohol ethoxylate | No data available | | | |
| propan-2-ol | 0.05 | OECD 107 | No bioaccumulation expected | |
| alkyl alcohol ethoxylate | No data available | | | |
| alkyl alcohol alkoxylate | - | | No bioaccumulation expected | |
| sodium benzoate | -2.27 | Method not given | No bioaccumulation expected | |
| 2-phenoxyethanol | 1.2 | OECD 107 | No bioaccumulation expected | |
| polydimethylsiloxane | No data available | | No bioaccumulation expected | |

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Bioconcentration factor (BCF)

| Ingredient(s) | Value | Species | Method | Evaluation | Remark |
|--------------------------|-------------------|---------|------------------|-----------------------------|--------|
| alkyl alcohol ethoxylate | No data available | | | | |
| alkyl alcohol ethoxylate | No data available | | | | |
| propan-2-ol | No data available | | | | |
| alkyl alcohol ethoxylate | No data available | | | | |
| alkyl alcohol alkoxylate | No data available | | | | |
| sodium benzoate | No data available | | | | |
| 2-phenoxyethanol | 0.35 | | Method not given | No bioaccumulation expected | |
| polydimethylsiloxane | No data available | | | No bioaccumulation expected | |

12.4 Mobility in soil

Adsorption/Desorption to soil or sediment

| Ingredient(s) | Adsorption coefficient Log Koc | Desorption coefficient Log Koc(des) | Method | Soil/sediment type | Evaluation |
|--------------------------|--------------------------------|-------------------------------------|------------------|--------------------|--|
| alkyl alcohol ethoxylate | No data available | | | | |
| alkyl alcohol ethoxylate | No data available | | | | |
| propan-2-ol | No data available | | | | Potential for mobility in soil, soluble in water |
| alkyl alcohol ethoxylate | No data available | | | | |
| alkyl alcohol alkoxylate | No data available | | | | |
| sodium benzoate | No data available | | | | |
| 2-phenoxyethanol | 1.61 | No data available | Method not given | | Potential for adsorption to soil |
| polydimethylsiloxane | 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

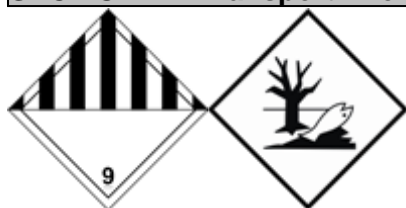
Recommendation:

Dispose of observing national or local regulations.

Suitable cleaning agents:

Water, if necessary with cleaning agent.

SECTION 14: Transport information



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

14.1 UN number: 3082

14.2 UN proper shipping name:

Environmentally hazardous substance, liquid, n.o.s. (alkyl alcohol ethoxylate)

14.3 Transport hazard class(es):

Transport hazard class (and subsidiary risks): 9

14.4 Packing group: III

14.5 Environmental hazards:

Environmentally hazardous: Yes

Marine pollutant: Yes

14.6 Special precautions for user: None known.

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

Other relevant information:

Hazchem code: +3Z

Transport regulations include special provisions for dangerous goods packed in small quantities classified under UN3077 or UN3082.

SECTION 15: Regulatory information

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

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HSNO Approval Number HSR002528.
Group standard Cleaning Products (Flammable) 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: MS32000509

Version: 01.1

Revision: 2018-06-22

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

Abbreviations and acronyms:

- DNEL - Derived No Effect Limit
- AUH - GHS Specific hazard statement
- PNEC - Predicted No Effect Concentration
- ATE - Acute Toxicity Estimate
- LD50 - Lethal Dose, 50% / Median Lethal dose
- LC50 - Lethal Concentration, 50% / Median Lethal Concentration
- EC50 - effective concentration, 50%
- NOEL - No observed effect level
- NOAEL - No observed adverse effect level
- STOT-RE - Specific target organ toxicity (repeated exposure)
- STOT-SE - Specific target organ toxicity (single exposure)
- EC No. - European Community Number
- OECD - Organization for Economic Cooperation and Development

End of Safety Data Sheet