



SUMA BIO-FLOOR PLUS No-Rinse Probiotic Floor Cleaner and Deodorizer

Revision: 2022-07-11

Version: 01.0

SECTION 1: Identification of the substance/mixture and supplier

1.1 Product identifier

Product name: SUMA BIO-FLOOR PLUS
No-Rinse Probiotic Floor Cleaner and Deodorizer

1.2 Recommended use and restrictions on use

Identified uses:

Deodorising floor cleaner. This product is intended to be diluted prior to use.

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

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

Skin corrosion, Category 1C
Serious eye damage, Category 1
Acute aquatic toxicity, Category 1
Chronic aquatic toxicity, Category 2

2.2 Label elements



Signal word: Danger

Hazard statements:

H314 - Causes severe skin burns and eye damage.
H410 - Very toxic to aquatic life with long lasting effects.

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):

P301 + P330 + P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
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).
P363 - Wash contaminated clothing before reuse.

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Storage statement(s):

P405 - Store locked up.

Disposal statement(s):

P501 - Dispose of unused content as chemical waste.

2.3 Other hazards

No other hazards known.

2.4 Classification diluted product:

Recommended maximum concentration (% w/w): 0.26

Not classified as hazardous

SECTION 3: Composition/information on ingredients

3.1 Substances / Mixtures

| Ingredient(s) | CAS number | EC number | Weight percent |
|---|------------|-----------|----------------|
| Alcohols, C12-14-secondary, ethoxylated | 84133-50-6 | | 10-30 |
| alkyl alcohol ethoxylate | 68439-46-3 | [4] | 10-30 |
| quatarnary ammonium compounds, C12-18-alkyl[(ethylphenyl)methyl]dimethyl, chlorides | 68956-79-6 | 273-318-2 | 3-10 |
| quatarnary ammonium compounds, benzyl-C12-18-alkyldimethyl, chlorides | 68391-01-5 | 269-919-4 | 3-10 |
| fatty acids, C8-18 and C18-unsaturated | 67701-05-7 | 266-929-0 | 1-3 |
| alkyl alcohol ethoxylate | 68439-46-3 | [4] | 1-3 |

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

[4] Polymer.

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:**

If unconscious place in recovery position and seek medical advice. Provide fresh air. If breathing is irregular or stopped, administer artificial respiration. No mouth-to-mouth or mouth-to-nose resuscitation. Use Ambu bag or ventilator.

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. Take off immediately all contaminated clothing and wash it before reuse. Immediately call a POISON CENTRE, doctor or physician. 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. Do NOT induce vomiting. Keep at rest. Immediately call a POISON CENTRE, doctor or physician.

Self-protection of first aider:

Consider personal protective equipment as indicated in subsection 8.2.

First aid facilities:

Shower and eyewash facilities should be considered in a workplace where necessary. 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:

Causes severe burns.

Eye contact:

Causes severe or permanent damage.

Ingestion:

Ingestion will lead to a strong caustic effect on mouth and throat and to the danger of perforation of oesophagus and stomach.

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

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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

2X

2 - Fine water spray

X - Liquid-tight chemical protective clothing and breathing apparatus. Contain.

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

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

6.2 Environmental precautions

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

6.3 Methods and material for containment and cleaning up

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 face, hands and any exposed skin thoroughly after handling. Take off immediately all contaminated clothing. Wash contaminated clothing before reuse. Avoid contact with skin and 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:

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

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| | |
|---|--|
| Appropriate organisational controls: | contact, the personal protection equipment as described in this section is not required. Avoid direct contact and/or splashes where possible. Train personnel. |
| Personal protective equipment | |
| Eye / face protection: | Safety glasses or goggles (AS/NZS 1337.1). The use of a full-face shield or other full-face protection is strongly recommended when handling open containers or if splashes may occur. |
| Hand protection: | Chemical-resistant protective gloves (AS/NZS 2161.10). 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: | Should not reach sewage water or drainage ditch undiluted or unneutralised. |
| <i>Recommended safety measures for handling the <u>diluted</u> product:</i> | |
| Recommended maximum concentration (% w/w): 0.26 | |
| Appropriate engineering controls: | No special requirements under normal use conditions. |
| Appropriate organisational controls: | No special requirements under normal use conditions. |
| Personal protective equipment | |
| Eye / face protection: | No special requirements under normal use conditions. |
| Hand protection: | 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

| | Method / remark |
|--|--|
| Physical state: Liquid | |
| Colour: Hazy , Green | |
| Odour: Surfactant | |
| Odour threshold: Not applicable | |
| pH: ≈ 8.8 (neat) | ISO 4316 |
| Dilution pH: ≈ 9.35 (0.26 %) | 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 | |
| Flammability (liquid): Not flammable. | |
| Flash point (°C): > 93 °C | closed cup |
| Sustained combustion: Not applicable. (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 | |
| Lower and upper explosion limit/flammability limit (%): Not determined | |
| Vapour pressure: Not determined | |
| Relative vapour density No data available | Not relevant to classification of this product |
| Relative density: ≈ 1.01 (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: ≈ 67 mPa.s (20 °C)
Explosive properties: Not explosive.

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Oxidising properties: Not oxidising.

9.2 Other information

Surface tension (N/m): Not determined

Corrosion to metals: Not corrosive

Weight of evidence

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): >2000

ATE - Dermal (mg/kg): >2000

Skin irritation and corrosivity

Result: Skin corrosive 1C **Method:** Weight of Evidence

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) |
|---|------------------|-------------------|---------|----------------------------------|-------------------|
| Alcohols, C12-14-secondary, ethoxylated | | No data available | | | |
| alkyl alcohol ethoxylate | LD ₅₀ | 1400 | Rat | Weight of evidence | |
| quaternary ammonium compounds, C12-18-alkyl[(ethylphenyl)methyl]dimethyl, chlorides | | 304.5 | | | |
| quaternary ammonium compounds, benzyl-C12-18-alkyldimethyl, chlorides | LD ₅₀ | 304.5 | Rat | Method not given | |
| fatty acids, C8-18 and C18-unsaturated | LD ₅₀ | > 5000 | Rat | OECD 401 (EU B.1) Read across | |
| alkyl alcohol ethoxylate | LD ₅₀ | > 2000 | | | |

Acute dermal toxicity

| Ingredient(s) | Endpoint | Value (mg/kg) | Species | Method | Exposure time (h) |
|---|------------------|-------------------|---------|----------------------|-------------------|
| Alcohols, C12-14-secondary, ethoxylated | | No data available | | | |
| alkyl alcohol ethoxylate | LD ₅₀ | 2000 - 5000 | Rat | Weight of evidence | |
| quaternary ammonium compounds, C12-18-alkyl[(ethylphenyl)methyl]dimethyl, chlorides | | No data available | | | |
| quaternary ammonium compounds, benzyl-C12-18-alkyldimethyl, chlorides | LD ₅₀ | 930 | Rat | Method not given | |
| fatty acids, C8-18 and C18-unsaturated | LD ₅₀ | > 2000 | Rabbit | OECD 434 Read across | |
| alkyl alcohol ethoxylate | | No data available | | | |

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Acute inhalative toxicity

| Ingredient(s) | Endpoint | Value (mg/l) | Species | Method | Exposure time (h) |
|---|------------------|-------------------|---------|------------------|-------------------|
| Alcohols, C12-14-secondary, ethoxylated | | No data available | | | |
| alkyl alcohol ethoxylate | | No data available | | | |
| quaternary ammonium compounds, C12-18-alkyl[(ethylphenyl)methyl]dimethyl, chlorides | | No data available | | | |
| quaternary ammonium compounds, benzyl-C12-18-alkyldimethyl, chlorides | LC ₅₀ | 0.054 | | Method not given | |
| fatty acids, C8-18 and C18-unsaturated | LC ₅₀ | > 0.1521 | Rat | Read across | 4 |
| alkyl alcohol ethoxylate | | No data available | | | |

Irritation and corrosivity

Skin irritation and corrosivity

| Ingredient(s) | Result | Species | Method | Exposure time |
|---|-------------------|---------|----------------------------------|---------------|
| Alcohols, C12-14-secondary, ethoxylated | Irritant | | | |
| alkyl alcohol ethoxylate | Not irritant | | Weight of evidence | |
| quaternary ammonium compounds, C12-18-alkyl[(ethylphenyl)methyl]dimethyl, chlorides | No data available | | | |
| quaternary ammonium compounds, benzyl-C12-18-alkyldimethyl, chlorides | No data available | | | |
| fatty acids, C8-18 and C18-unsaturated | Irritant | | OECD 404 (EU B.4) Read across | |
| alkyl alcohol ethoxylate | No data available | | | |

Eye irritation and corrosivity

| Ingredient(s) | Result | Species | Method | Exposure time |
|---|-------------------|---------|----------------------------------|---------------|
| Alcohols, C12-14-secondary, ethoxylated | Severe damage | | | |
| alkyl alcohol ethoxylate | Severe damage | Rabbit | Weight of evidence OECD 437 | |
| quaternary ammonium compounds, C12-18-alkyl[(ethylphenyl)methyl]dimethyl, chlorides | No data available | | | |
| quaternary ammonium compounds, benzyl-C12-18-alkyldimethyl, chlorides | No data available | | | |
| fatty acids, C8-18 and C18-unsaturated | Irritant | | OECD 405 (EU B.5) Read across | |
| alkyl alcohol ethoxylate | No data available | | | |

Respiratory tract irritation and corrosivity

| Ingredient(s) | Result | Species | Method | Exposure time |
|---|-------------------|---------|--------|---------------|
| Alcohols, C12-14-secondary, ethoxylated | No data available | | | |
| alkyl alcohol ethoxylate | No data available | | | |
| quaternary ammonium compounds, C12-18-alkyl[(ethylphenyl)methyl]dimethyl, chlorides | No data available | | | |
| quaternary ammonium compounds, benzyl-C12-18-alkyldimethyl, chlorides | No data available | | | |
| fatty acids, C8-18 and C18-unsaturated | No data available | | | |
| alkyl alcohol ethoxylate | No data available | | | |

Sensitisation

Sensitisation by skin contact

| Ingredient(s) | Result | Species | Method | Exposure time (h) |
|---|-------------------|---------|--------------------|-------------------|
| Alcohols, C12-14-secondary, ethoxylated | No data available | | | |
| alkyl alcohol ethoxylate | Not sensitising | | Weight of evidence | |
| quaternary ammonium compounds, C12-18-alkyl[(ethylphenyl)methyl]dimethyl, chlorides | No data available | | | |
| quaternary ammonium compounds, benzyl-C12-18-alkyldimethyl, chlorides | No data available | | | |
| fatty acids, C8-18 and C18-unsaturated | Not sensitising | | Read across | |
| alkyl alcohol ethoxylate | No data available | | | |

Sensitisation by inhalation

| Ingredient(s) | Result | Species | Method | Exposure time |
|---|-------------------|---------|--------|---------------|
| Alcohols, C12-14-secondary, ethoxylated | No data available | | | |
| alkyl alcohol ethoxylate | No data available | | | |
| quaternary ammonium compounds, C12-18-alkyl[(ethylphenyl)methyl]dimethyl, chlorides | No data available | | | |
| quaternary ammonium compounds, benzyl-C12-18-alkyldimethyl, chlorides | No data available | | | |
| fatty acids, C8-18 and C18-unsaturated | No data available | | | |

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|--------------------------|-------------------|--|--|
| 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) |
|---|---|-----------------------------------|------------------------------|--------------------|
| Alcohols, C12-14-secondary, ethoxylated | No data available | | No data available | |
| alkyl alcohol ethoxylate | No evidence for mutagenicity, negative test results | OECD 473 | No data available | |
| quaternary ammonium compounds, C12-18-alkyl[(ethylphenyl)methyl]dimethyl, chlorides | No data available | | No data available | |
| quaternary ammonium compounds, benzyl-C12-18-alkyldimethyl, chlorides | No evidence for genotoxicity, weight of evidence | Weight of evidence | No evidence for mutagenicity | Weight of evidence |
| fatty acids, C8-18 and C18-unsaturated | No evidence for mutagenicity | OECD 471 (EU B.12/13) Read across | No data available | |
| alkyl alcohol ethoxylate | No data available | | No data available | |

Carcinogenicity

| Ingredient(s) | Effect |
|---|--|
| Alcohols, C12-14-secondary, ethoxylated | No data available |
| alkyl alcohol ethoxylate | No evidence for carcinogenicity, negative test results |
| quaternary ammonium compounds, C12-18-alkyl[(ethylphenyl)methyl]dimethyl, chlorides | No data available |
| quaternary ammonium compounds, benzyl-C12-18-alkyldimethyl, chlorides | No evidence for carcinogenicity, weight-of-evidence |
| fatty acids, C8-18 and C18-unsaturated | 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 |
|---|----------|---|--------------------|---------|-----------------------------|---------------|---|
| Alcohols, C12-14-secondary, ethoxylated | | | No data available | | | | |
| alkyl alcohol ethoxylate | NOAEL | | > 250 | Rat | Not known | | No effects on fertility No developmental toxicity |
| quaternary ammonium compounds, C12-18-alkyl[(ethylphenyl)methyl]dimethyl, chlorides | | | No data available | | | | |
| quaternary ammonium compounds, benzyl-C12-18-alkyldimethyl, chlorides | | | No data available | | | | |
| fatty acids, C8-18 and C18-unsaturated | NOAEL | Developmental toxicity Teratogenic effects | 600 | | OECD 421/422 Read across | | |
| alkyl alcohol ethoxylate | | | 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 |
|---|----------|--------------------|---------|--------------------|----------------------|--------------------------------------|
| Alcohols, C12-14-secondary, ethoxylated | | No data available | | | | |
| alkyl alcohol ethoxylate | NOAEL | 80 - 400 | | OECD 408 (EU B.26) | | |
| quaternary ammonium compounds, C12-18-alkyl[(ethylphenyl)methyl]dimethyl, chlorides | | No data available | | | | |
| quaternary ammonium compounds, benzyl-C12-18-alkyldimethyl, chlorides | | No data available | | | | |
| fatty acids, C8-18 and C18-unsaturated | NOAEL | 1000 | Rat | OECD 422, oral | | |
| 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 |
|---|----------|--------------------|---------|--------------|----------------------|--------------------------------------|
| Alcohols, C12-14-secondary, ethoxylated | | No data available | | | | |
| alkyl alcohol ethoxylate | NOAEL | 80 | | OECD 411 (EU | 90 | |

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|---|--|-------------------|--|-------|--|--|
| | | | | B.28) | | |
| quaternary ammonium compounds, C12-18-alkyl[(ethylphenyl)methyl]dimethyl, chlorides | | No data available | | | | |
| quaternary ammonium compounds, benzyl-C12-18-alkyldimethyl, chlorides | | No data available | | | | |
| fatty acids, C8-18 and C18-unsaturated | | 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 |
|---|----------|--------------------|---------|--------|----------------------|--------------------------------------|
| Alcohols, C12-14-secondary, ethoxylated | | No data available | | | | |
| alkyl alcohol ethoxylate | | No data available | | | | |
| quaternary ammonium compounds, C12-18-alkyl[(ethylphenyl)methyl]dimethyl, chlorides | | No data available | | | | |
| quaternary ammonium compounds, benzyl-C12-18-alkyldimethyl, chlorides | | No data available | | | | |
| fatty acids, C8-18 and C18-unsaturated | | 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 |
|---|----------------|----------|--------------------|---------|--------|---------------|--------------------------------------|--------|
| Alcohols, C12-14-secondary, ethoxylated | | | No data available | | | | | |
| alkyl alcohol ethoxylate | | | No data available | | | | | |
| quaternary ammonium compounds, C12-18-alkyl[(ethylphenyl)methyl]dimethyl, chlorides | | | No data available | | | | | |
| quaternary ammonium compounds, benzyl-C12-18-alkyldimethyl, chlorides | | | No data available | | | | | |
| fatty acids, C8-18 and C18-unsaturated | | | No data available | | | | | |
| alkyl alcohol ethoxylate | | | No data available | | | | | |

STOT-single exposure

| Ingredient(s) | Affected organ(s) |
|---|-------------------|
| Alcohols, C12-14-secondary, ethoxylated | No data available |
| alkyl alcohol ethoxylate | No data available |
| quaternary ammonium compounds, C12-18-alkyl[(ethylphenyl)methyl]dimethyl, chlorides | No data available |
| quaternary ammonium compounds, benzyl-C12-18-alkyldimethyl, chlorides | Not applicable |
| fatty acids, C8-18 and C18-unsaturated | No data available |
| alkyl alcohol ethoxylate | No data available |

STOT-repeated exposure

| Ingredient(s) | Affected organ(s) |
|---|-------------------|
| Alcohols, C12-14-secondary, ethoxylated | No data available |
| alkyl alcohol ethoxylate | No data available |
| quaternary ammonium compounds, C12-18-alkyl[(ethylphenyl)methyl]dimethyl, chlorides | No data available |
| quaternary ammonium compounds, benzyl-C12-18-alkyldimethyl, chlorides | Not applicable |
| fatty acids, C8-18 and C18-unsaturated | No data available |
| alkyl alcohol ethoxylate | No data available |

Aspiration hazard

Substances with an aspiration hazard (H304), if any, are listed in section 3.

Potential adverse health effects and symptoms

Effects and symptoms related to the product, if any, are listed in subsection 4.2.

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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) |
|---|------------------|-------------------|------------------------|----------------------------------|-------------------|
| Alcohols, C12-14-secondary, ethoxylated | LC ₅₀ | No data available | | | |
| alkyl alcohol ethoxylate | LC ₅₀ | 5 - 7 | <i>Fish</i> | 92/69/EEC, C1, semi-static | 96 |
| quaternary ammonium compounds, C12-18-alkyl[(ethylphenyl)methyl]dimethyl, chlorides | | No data available | | | |
| quaternary ammonium compounds, benzyl-C12-18-alkyldimethyl, chlorides | | No data available | | | |
| fatty acids, C8-18 and C18-unsaturated | LC ₅₀ | 5 | <i>Oryzias latipes</i> | OECD 203 (EU C.1) Read across | 96 |
| alkyl alcohol ethoxylate | | No data available | | | |

Aquatic short-term toxicity - crustacea

| Ingredient(s) | Endpoint | Value (mg/l) | Species | Method | Exposure time (h) |
|---|------------------|-------------------|-----------------------------|----------------------------------|-------------------|
| Alcohols, C12-14-secondary, ethoxylated | EC ₅₀ | 3.1 | <i>Daphnia magna Straus</i> | OECD 202 (EU C.2) | 48 |
| alkyl alcohol ethoxylate | EC ₅₀ | 5.3 | <i>Daphnia</i> | 92/69/EEC | 48 |
| quaternary ammonium compounds, C12-18-alkyl[(ethylphenyl)methyl]dimethyl, chlorides | | No data available | | | |
| quaternary ammonium compounds, benzyl-C12-18-alkyldimethyl, chlorides | | No data available | | | |
| fatty acids, C8-18 and C18-unsaturated | EC ₅₀ | 3.6 | <i>Daphnia magna Straus</i> | OECD 202 (EU C.2) Read across | 48 |
| alkyl alcohol ethoxylate | | No data available | | | |

Aquatic short-term toxicity - algae

| Ingredient(s) | Endpoint | Value (mg/l) | Species | Method | Exposure time (h) |
|---|------------------|-------------------|--|------------------|-------------------|
| Alcohols, C12-14-secondary, ethoxylated | | No data available | | | |
| alkyl alcohol ethoxylate | EC ₅₀ | 1.4 - 47 | <i>Not specified</i> | 92/69/EEC | 72 |
| quaternary ammonium compounds, C12-18-alkyl[(ethylphenyl)methyl]dimethyl, chlorides | | No data available | | | |
| quaternary ammonium compounds, benzyl-C12-18-alkyldimethyl, chlorides | | No data available | | | |
| fatty acids, C8-18 and C18-unsaturated | EC ₅₀ | 7.6 | <i>Pseudokirchneriella subcapitata</i> | OECD 201, static | echa |
| alkyl alcohol ethoxylate | | No data available | | | |

Aquatic short-term toxicity - marine species

| Ingredient(s) | Endpoint | Value (mg/l) | Species | Method | Exposure time (days) |
|---|----------|-------------------|---------|--------|----------------------|
| Alcohols, C12-14-secondary, ethoxylated | | No data available | | | |
| alkyl alcohol ethoxylate | | No data available | | | |
| quaternary ammonium compounds, C12-18-alkyl[(ethylphenyl)methyl]dimethyl, chlorides | | No data available | | | |
| quaternary ammonium compounds, benzyl-C12-18-alkyldimethyl, chlorides | | No data available | | | |
| fatty acids, C8-18 and C18-unsaturated | | 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 |
|---------------|----------|--------------|----------|--------|---------------|
| | | | | | |

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|---|------------------|-------------------|-----------------|-------------------------------------|-----------|
| Alcohols, C12-14-secondary, ethoxylated | | No data available | | | |
| alkyl alcohol ethoxylate | EC ₅₀ | > 140 | <i>Bacteria</i> | DIN EN ISO 8192-OECD 209-88/302/EEC | 3 hour(s) |
| quaternary ammonium compounds, C12-18-alkyl[(ethylphenyl)methyl]dimethyl, chlorides | | No data available | | | |
| quaternary ammonium compounds, benzyl-C12-18-alkyldimethyl, chlorides | | No data available | | | |
| fatty acids, C8-18 and C18-unsaturated | | 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 |
|---|------------------|-------------------|----------------------|------------------|---------------|------------------|
| Alcohols, C12-14-secondary, ethoxylated | | No data available | | | | |
| alkyl alcohol ethoxylate | EC ₁₀ | 8.983 | <i>Not specified</i> | Method not given | 21 day(s) | |
| quaternary ammonium compounds, C12-18-alkyl[(ethylphenyl)methyl]dimethyl, chlorides | | No data available | | | | |
| quaternary ammonium compounds, benzyl-C12-18-alkyldimethyl, chlorides | | No data available | | | | |
| fatty acids, C8-18 and C18-unsaturated | | 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 |
|---|------------------|-------------------|----------------------|----------------------|---------------|------------------|
| Alcohols, C12-14-secondary, ethoxylated | | No data available | | | | |
| alkyl alcohol ethoxylate | EC ₁₀ | 2.579 | <i>Daphnia sp.</i> | Method not given | 21 day(s) | |
| quaternary ammonium compounds, C12-18-alkyl[(ethylphenyl)methyl]dimethyl, chlorides | | No data available | | | | |
| quaternary ammonium compounds, benzyl-C12-18-alkyldimethyl, chlorides | | No data available | | | | |
| fatty acids, C8-18 and C18-unsaturated | NOEC | 0.31 | <i>Daphnia magna</i> | OECD 211 Read across | 21 day(s) | |
| alkyl alcohol ethoxylate | | No data available | | | | |

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

Terrestrial toxicity

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

Terrestrial toxicity - plants, if available:

Terrestrial toxicity - birds, if available:

Terrestrial toxicity - beneficial insects, if available:

Terrestrial toxicity - soil bacteria, if 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 ₅₀ | Method | Evaluation |
|---------------|----------|-------------------|------------------|--------|------------|
|---------------|----------|-------------------|------------------|--------|------------|

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|---|---------------------------|--|---------------------|------------------|----------------------------|
| Alcohols, C12-14-secondary, ethoxylated | | | > 60 % in 28 day(s) | OECD 301F | Readily biodegradable |
| alkyl alcohol ethoxylate | | | | OECD 301B | Readily biodegradable |
| quaternary ammonium compounds, C12-18-alkyl[(ethylphenyl)methyl]dimethyl, chlorides | | | | | Not readily biodegradable. |
| quaternary ammonium compounds, benzyl-C12-18-alkyldimethyl, chlorides | | | | Method not given | Readily biodegradable |
| fatty acids, C8-18 and C18-unsaturated | | | > 60% in 30 day(s) | OECD 301D | Readily biodegradable |
| alkyl alcohol ethoxylate | Activated sludge, aerobic | | | | 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 |
|---|-------------------|------------------|------------------------------------|--------|
| Alcohols, C12-14-secondary, ethoxylated | 3.3 - 4.4 | | | |
| alkyl alcohol ethoxylate | 3.11 - 4.19 | Method not given | High potential for bioaccumulation | |
| quaternary ammonium compounds, C12-18-alkyl[(ethylphenyl)methyl]dimethyl, chlorides | No data available | | | |
| quaternary ammonium compounds, benzyl-C12-18-alkyldimethyl, chlorides | 3.91 | Method not given | | |
| fatty acids, C8-18 and C18-unsaturated | No data available | | | |
| alkyl alcohol ethoxylate | No data available | | | |

Bioconcentration factor (BCF)

| Ingredient(s) | Value | Species | Method | Evaluation | Remark |
|---|-------------------|---------|------------------|------------------------------------|--------|
| Alcohols, C12-14-secondary, ethoxylated | No data available | | | | |
| alkyl alcohol ethoxylate | < 500 | | Method not given | High potential for bioaccumulation | |
| quaternary ammonium compounds, C12-18-alkyl[(ethylphenyl)methyl]dimethyl, chlorides | No data available | | | | |
| quaternary ammonium compounds, benzyl-C12-18-alkyldimethyl, chlorides | 182.8 | | Method not given | | |
| fatty acids, C8-18 and C18-unsaturated | 225 | | | Low potential for bioaccumulation | |
| alkyl alcohol ethoxylate | No data available | | | | |

12.4 Mobility in soil

Adsorption/Desorption to soil or sediment

| Ingredient(s) | Adsorption coefficient Log Koc | Desorption coefficient Log Koc(des) | Method | Soil/sediment type | Evaluation |
|---|--------------------------------|-------------------------------------|--------|--------------------|--|
| Alcohols, C12-14-secondary, ethoxylated | No data available | | | | |
| alkyl alcohol ethoxylate | No data available | | | | Potential for mobility in soil, soluble in water |
| quaternary ammonium compounds, C12-18-alkyl[(ethylphenyl)methyl]dimethyl, chlorides | No data available | | | | |
| quaternary ammonium compounds, benzyl-C12-18-alkyldimethyl, chlorides | No data available | | | | |
| fatty acids, C8-18 and C18-unsaturated | No data available | | | | Low mobility in soil |
| 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 material is suitable for energy recovery or recycling in line with local legislation.

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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:** 3267**14.2 UN proper shipping name:**

Corrosive liquid, n.o.s. Corrosive liquid, basic, organic, n.o.s. (quaternary ammonium compounds)

14.3 Transport hazard class(es):**Transport hazard class (and subsidiary risks):** 8**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:** 2X**IMO/IMDG****EmS:** F-A, S-B

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

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

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**HSNO Approval Number**

HSR002526.

Group standard

Cleaning Products (Corrosive) Group Standard 2020

Inventory Listing(s)

New Zealand: NZIoC (New Zealand Inventory of Chemicals)

All components are listed on the NZIoC inventory, or are exempt

HSNO Classification

8.2C - Corrosive to dermal tissue

8.3A - Corrosive to ocular tissue

9.1A - Very ecotoxic in the aquatic environment

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: MS32000704**Version:** 01.0**Revision:** 2022-07-11**Abbreviations and acronyms:**

- ATE - Acute Toxicity Estimate
- AUH - Non GHS hazard statement
- DNEL - Derived No Effect Limit
- EC No. - European Community Number
- EC50 - effective concentration, 50%
- LC50 - Lethal Concentration, 50% / Median Lethal Concentration
- LD50 - Lethal Dose, 50% / Median Lethal dose

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- NOAEL - No observed adverse effect level
- NOEL - No observed effect level
- OECD - Organisation for Economic Cooperation and Development
- PNEC - Predicted No Effect Concentration
- STOT-RE - Specific target organ toxicity (repeated exposure)
- STOT-SE - Specific target organ toxicity (single exposure)

End of Safety Data Sheet