



PERdiem SmartDose

Revision: 2023-05-03

Version: 03.0

SECTION 1: Identification of the substance/mixture and supplier

1.1 Product identifier

Product name: PERdiem SmartDose

1.2 Recommended use and restrictions on use

Identified uses:

General purpose cleaner

Restrictions of use:

Uses other than those identified are not recommended

1.3 Details of the supplier

DIVERSEY NEW ZEALAND LTD.

24 Bancroft Crescent, Glendene, Auckland, 0602, New Zealand

Telephone: 0800 803 615 (toll free)

Website: www.diversey.com

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

Eye irritation, Category 2A

Chronic aquatic toxicity, Category 3

2.2 Label elements



Signal word: Warning

Hazard statements:

H319 - Causes serious eye irritation.

H412 - Harmful to aquatic life with long lasting effects.

Prevention statement(s):

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

Response statement(s):

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

P337 + P313 - If eye irritation persists: Get medical advice or attention.

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): 1.6

Not classified as hazardous

SECTION 3: Composition/information on ingredients

3.1 Substances / Mixtures

| Ingredient(s) | CAS# | EC number | Weight percent |
|--|------------|-----------------------|----------------|
| alkyl alcohol ethoxylate | 68439-46-3 | [4] | 10-30 |
| Hydrogen peroxide | 7722-84-1 | 231-765-0 | 3-10 |
| sodium xylene sulphonate | 1300-72-7 | 215-090-9 / 701-037-1 | 3-10 |
| Benzenesulfonic acid, C10-16-alkyl derivatives | 68584-22-5 | 271-528-9 | 0.1-1 |

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

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

4.2 Most important symptoms and effects, both acute and delayed

| | |
|----------------------|---|
| Inhalation: | No known effects or symptoms in normal use. |
| Skin contact: | No known effects or symptoms in normal use. |
| Eye contact: | Causes severe irritation. |
| Ingestion: | No known effects or symptoms in normal use. |

4.3 Indication of any immediate medical attention and special treatment needed

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

Poison Information Center: Call 0800 764 766 (0800 POISON)

SECTION 5: Firefighting measures

5.1 Extinguishing media

Carbon dioxide. Dry powder. Water spray jet. Fight larger fires with water spray jet or alcohol-resistant foam.

5.2 Special hazards arising from the substance or mixture

No special hazards known.

5.3 Advice for firefighters

As in any fire, wear self contained breathing apparatus and suitable protective clothing including gloves and eye/face protection.

5.4 Hazchem code

None allocated

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

No special measures required.

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). Do not place spilled materials back into the original container. Collect in closed and suitable containers for disposal.

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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. Avoid contact with eyes. Use only with adequate ventilation. See chapter 8.2, Exposure controls / Personal protection.

7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local and national regulations. Store in a closed container. Keep only in original packaging. For conditions to avoid see subsection 10.4. For incompatible materials see subsection 10.5.

7.3 Specific end use(s)

No specific advice for end use available.

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

Air limit values, if available:

| Ingredient(s) | Long term value(s) | Short term value(s) | Ceiling value(s) |
|-------------------|--------------------------------|---------------------|------------------|
| Hydrogen peroxide | 1 ppm 1.4 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:

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

Appropriate engineering controls: No special requirements under normal use conditions.
Appropriate organisational controls: Avoid direct contact and/or splashes where possible. Train personnel.

Personal protective equipment

Eye / face protection: Safety glasses are not normally required. However, their use is recommended in those cases where splashes may occur when handling the product (EN 166).

Hand protection: No special requirements under normal use conditions.

Body protection: No special requirements under normal use conditions.

Respiratory protection: No special requirements under normal use conditions.

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

Recommended safety measures for handling the diluted product:

Recommended maximum concentration (% w/w): 1.6

Appropriate engineering controls: Use only in well ventilated areas.
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: Trigger spray bottle application: No special requirements under normal use conditions. Apply technical measures to comply with the occupational exposure limits, if available.

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: Clear , Clear | |
| Odour: No Odor/Odorless | |
| Odour threshold: Not applicable | |
| pH: =< 2 (neat) | ISO 4316 |
| Dilution pH: ≈ 7 (1.6 %) | 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: ≈ 1.03 (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: Not determined
Explosive properties: Not explosive.
Oxidising properties: Not oxidising.

9.2 Other information

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

SECTION 10: Stability and reactivity

10.1 Reactivity

No reactivity hazards known under normal storage and use conditions.

10.2 Chemical stability

Stable under normal storage and use conditions.

10.3 Possibility of hazardous reactions

No hazardous reactions known under normal storage and use conditions.

10.4 Conditions to avoid

None known under normal storage and use conditions.

10.5 Incompatible materials

Keep away from products containing chlorine-based bleaching agents or sulphites.

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 - Inhalatory, mists (mg/l): >5

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

Skin irritation and corrosivity**Result:** Not corrosive or irritant **Method:** Weight of evidence**Eye irritation and corrosivity****Result:** Eye irritant 2A **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) |
|--|------------------|---------------|---------|--------------------|-------------------|
| alkyl alcohol ethoxylate | LD ₅₀ | 1400 | | | |
| Hydrogen peroxide | LD ₅₀ | > 300-2000 | Rat | Weight of evidence | |
| sodium xylene sulphonate | LD ₅₀ | > 7200 | Rat | OECD 401 (EU B.1) | |
| Benzenesulfonic acid, C10-16-alkyl derivatives | LD ₅₀ | > 5000 | Rat | OECD 401 (EU B.1) | |

Acute dermal toxicity

| Ingredient(s) | Endpoint | Value (mg/kg) | Species | Method | Exposure time (h) |
|--|------------------|---------------|---------|---|-------------------|
| alkyl alcohol ethoxylate | LD ₅₀ | > 2000 | | | |
| Hydrogen peroxide | LD ₅₀ | > 2000 | Rabbit | Substance was tested as 35 % aqueous solution | |
| sodium xylene sulphonate | LD ₅₀ | > 2000 | Rabbit | OECD 402 (EU B.3) | |
| Benzenesulfonic acid, C10-16-alkyl derivatives | LD ₅₀ | > 2000 | Rabbit | OECD 402 (EU B.3) | 24 hours |

Acute inhalative toxicity

| Ingredient(s) | Endpoint | Value (mg/l) | Species | Method | Exposure time (h) |
|--|------------------|--|---------|-------------------|-------------------|
| alkyl alcohol ethoxylate | | No data available | | | |
| Hydrogen peroxide | LC ₀ | No mortality observed (vapour) | Rat | Method not given | 4 |
| sodium xylene sulphonate | LC ₀ | > 6.41 (mist) No mortality observed | Rat | OECD 403 (EU B.2) | 4 |
| Benzenesulfonic acid, C10-16-alkyl derivatives | LC ₅₀ | > 1.9 | Rat | OECD 403 (EU B.2) | 4 hours |

Irritation and corrosivity

Skin irritation and corrosivity

| Ingredient(s) | Result | Species | Method | Exposure time |
|--|-------------------|---------|-------------------|---------------|
| alkyl alcohol ethoxylate | No data available | | | |
| Hydrogen peroxide | Corrosive | Rabbit | Method not given | |
| sodium xylene sulphonate | Mild irritant | Rabbit | OECD 404 (EU B.4) | |
| Benzenesulfonic acid, C10-16-alkyl derivatives | No data available | | | |

Eye irritation and corrosivity

| Ingredient(s) | Result | Species | Method | Exposure time |
|--|-------------------|---------|-------------------|---------------|
| alkyl alcohol ethoxylate | No data available | | | |
| Hydrogen peroxide | Corrosive | Rabbit | Method not given | |
| sodium xylene sulphonate | Irritant | Rabbit | OECD 405 (EU B.5) | |
| Benzenesulfonic acid, C10-16-alkyl derivatives | No data available | | | |

Respiratory tract irritation and corrosivity

| Ingredient(s) | Result | Species | Method | Exposure time |
|--|---------------------------------|---------|------------------|---------------|
| alkyl alcohol ethoxylate | No data available | | | |
| Hydrogen peroxide | Irritating to respiratory tract | | Method not given | |
| sodium xylene sulphonate | No data available | | | |
| Benzenesulfonic acid, C10-16-alkyl derivatives | No data available | | | |

Sensitisation

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Sensitisation by skin contact

| Ingredient(s) | Result | Species | Method | Exposure time (h) |
|--|-------------------|------------|--------------------------|-------------------|
| alkyl alcohol ethoxylate | No data available | | | |
| Hydrogen peroxide | Not sensitising | Guinea pig | Method not given | |
| sodium xylene sulphonate | Not sensitising | Guinea pig | OECD 406 (EU B.6) / GPMT | |
| Benzenesulfonic acid, C10-16-alkyl derivatives | No data available | | | |

Sensitisation by inhalation

| Ingredient(s) | Result | Species | Method | Exposure time |
|--|-------------------|---------|--------|---------------|
| alkyl alcohol ethoxylate | No data available | | | |
| Hydrogen peroxide | No data available | | | |
| sodium xylene sulphonate | No data available | | | |
| Benzenesulfonic acid, C10-16-alkyl derivatives | 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 | |
| Hydrogen peroxide | No evidence for mutagenicity | OECD 471 (EU B.12/13) | No evidence of genotoxicity, negative test results | Method not given |
| sodium xylene sulphonate | No evidence for mutagenicity, negative test results | OECD 473 | No evidence for mutagenicity, negative test results | OECD 474 (EU B.12) |
| Benzenesulfonic acid, C10-16-alkyl derivatives | No data available | | No data available | |

Carcinogenicity

| Ingredient(s) | Effect |
|--|--|
| alkyl alcohol ethoxylate | No data available |
| Hydrogen peroxide | No evidence for carcinogenicity, negative test results |
| sodium xylene sulphonate | No evidence for carcinogenicity, negative test results |
| Benzenesulfonic acid, C10-16-alkyl derivatives | 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 |
|--|----------|---------------------|--------------------|---------|--------------------|---------------|---------------------------------------|
| alkyl alcohol ethoxylate | | | No data available | | | | |
| Hydrogen peroxide | | | No data available | | | | No evidence for reproductive toxicity |
| sodium xylene sulphonate | NOAEL | Teratogenic effects | > 936 | Rat | Non guideline test | | |
| Benzenesulfonic acid, C10-16-alkyl derivatives | | | 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 | | | | |
| Hydrogen peroxide | NOAEL | 100 | Mouse | OECD 408 (EU B.26) | 90 | |
| sodium xylene sulphonate | NOAEL | 763 - 3534 | Rat | OECD 408 (EU B.26) | 90 | |
| Benzenesulfonic acid, C10-16-alkyl derivatives | | 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 | | | | |
| Hydrogen peroxide | | No data available | | | | |
| sodium xylene sulphonate | NOAEL | > 440 | | OECD 411 (EU B.28) | 90 | |
| Benzenesulfonic acid, C10-16-alkyl derivatives | | No data available | | | | |

Sub-chronic inhalation toxicity

| Ingredient(s) | Endpoint | Value | Species | Method | Exposure | Specific effects and organs |
|---------------|----------|-------|---------|--------|----------|-----------------------------|
|---------------|----------|-------|---------|--------|----------|-----------------------------|

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| | | (mg/kg bw/d) | | | time (days) | affected |
|--|-------|-------------------|-------|--------------------|-------------|----------|
| alkyl alcohol ethoxylate | | No data available | | | | |
| Hydrogen peroxide | NOAEL | 7 | Mouse | OECD 413 (EU B.29) | 28 | |
| sodium xylene sulphonate | | No data available | | | | |
| Benzenesulfonic acid, C10-16-alkyl derivatives | | 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 | | | | | |
| Hydrogen peroxide | | | No data available | | | | | |
| sodium xylene sulphonate | Oral | | No data available | Rat | OECD 453 (EU B.33) | 24 month(s) | No adverse effects observed | |
| Benzenesulfonic acid, C10-16-alkyl derivatives | | | No data available | | | | | |

STOT-single exposure

| Ingredient(s) | Affected organ(s) |
|--|-------------------|
| alkyl alcohol ethoxylate | No data available |
| Hydrogen peroxide | No data available |
| sodium xylene sulphonate | No data available |
| Benzenesulfonic acid, C10-16-alkyl derivatives | No data available |

STOT-repeated exposure

| Ingredient(s) | Affected organ(s) |
|--|-------------------|
| alkyl alcohol ethoxylate | No data available |
| Hydrogen peroxide | No data available |
| sodium xylene sulphonate | No data available |
| Benzenesulfonic acid, C10-16-alkyl derivatives | 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.

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 | LC ₅₀ | 6 | <i>Oncorhynchus mykiss</i> | Method not given | 96 |
| Hydrogen peroxide | LC ₅₀ | 16.4 | <i>Pimephales promelas</i> | EPA-OPPTS 850.1075 | 96 |
| sodium xylene sulphonate | LC ₅₀ | > 1000 | <i>Oncorhynchus mykiss</i> | Method not given | 96 |
| Benzenesulfonic acid, C10-16-alkyl derivatives | LC ₅₀ | 1.67 | <i>Lepomis macrochirus</i> | | |

Aquatic short-term toxicity - crustacea

| Ingredient(s) | Endpoint | Value (mg/l) | Species | Method | Exposure time (h) |
|--|------------------|--------------|----------------------|------------------|-------------------|
| alkyl alcohol ethoxylate | EC ₅₀ | 2.5 | <i>Daphnia</i> | Method not given | 48 |
| Hydrogen peroxide | EC ₅₀ | 2.4 | <i>Daphnia pulex</i> | Method not given | 48 |
| sodium xylene sulphonate | EC ₅₀ | > 1000 | <i>Daphnia</i> | Method not given | 48 |
| Benzenesulfonic acid, C10-16-alkyl derivatives | EC ₅₀ | 2.4 | <i>Daphnia</i> | Read across | 48 |

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Aquatic short-term toxicity - algae

| Ingredient(s) | Endpoint | Value (mg/l) | Species | Method | Exposure time (h) |
|--|--------------------|--------------|---------------------------|--------------------|-------------------|
| alkyl alcohol ethoxylate | Er C ₅₀ | 1-10 | Not specified | Method not given | 96 |
| Hydrogen peroxide | EC ₅₀ | 1.38 | <i>Chlorella vulgaris</i> | OECD 201 (EU C.3) | 72 |
| sodium xylene sulphonate | EC ₅₀ | > 230 | Not specified | EPA OPPTS 850.5400 | 96 |
| Benzenesulfonic acid, C10-16-alkyl derivatives | EC ₅₀ | 0.91 | Not specified | Read across | 96 |

Aquatic short-term toxicity - marine species

| Ingredient(s) | Endpoint | Value (mg/l) | Species | Method | Exposure time (days) |
|--|-------------------|-------------------|-----------------------------|------------------|----------------------|
| alkyl alcohol ethoxylate | | No data available | | | |
| Hydrogen peroxide | ErC ₅₀ | 1.38 | <i>Skeletonema costatum</i> | Method not given | 72 |
| sodium xylene sulphonate | | No data available | | | |
| Benzenesulfonic acid, C10-16-alkyl derivatives | | 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 | | | |
| Hydrogen peroxide | EC ₅₀ | 466 | Activated sludge | Method not given | |
| sodium xylene sulphonate | Er C ₅₀ | > 1000 | Activated sludge | OECD 209 | 3 hour(s) |
| Benzenesulfonic acid, C10-16-alkyl derivatives | | 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 available | | | | |
| Hydrogen peroxide | NOEC | 4.3 | <i>Pimephales promelas</i> | Method not given | 96 hour(s) | |
| sodium xylene sulphonate | | No data available | | | | |
| Benzenesulfonic acid, C10-16-alkyl derivatives | | 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 | | | | |
| Hydrogen peroxide | NOEC | 1 | <i>Daphnia pulex</i> | Method not given | 48 hour(s) | |
| sodium xylene sulphonate | | No data available | | | | |
| Benzenesulfonic acid, C10-16-alkyl derivatives | | 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 |
|-------------------|----------|---------------------------|---------|--------|----------------------|------------------|
| Hydrogen peroxide | | 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 |
|-------------------|----------|-----------------------|---------|--------|----------------------|------------------|
| Hydrogen peroxide | | No data available | | | | |

Terrestrial toxicity - plants, if available:

| Ingredient(s) | Endpoint | Value (mg/kg dw) | Species | Method | Exposure time (days) | Effects observed |
|---------------|----------|------------------|---------|--------|----------------------|------------------|
|---------------|----------|------------------|---------|--------|----------------------|------------------|

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| | | soil) | | | | |
|-------------------|--|-------------------|--|--|--|--|
| Hydrogen peroxide | | No data available | | | | |

Terrestrial toxicity - birds, if available:

| Ingredient(s) | Endpoint | Value | Species | Method | Exposure time (days) | Effects observed |
|-------------------|----------|-------------------|---------|--------|----------------------|------------------|
| Hydrogen peroxide | | No data available | | | | |

Terrestrial toxicity - beneficial insects, if available:

| Ingredient(s) | Endpoint | Value (mg/kg dw soil) | Species | Method | Exposure time (days) | Effects observed |
|-------------------|----------|-----------------------|---------|--------|----------------------|------------------|
| Hydrogen peroxide | | No data available | | | | |

Terrestrial toxicity - soil bacteria, if available:

| Ingredient(s) | Endpoint | Value (mg/kg dw soil) | Species | Method | Exposure time (days) | Effects observed |
|-------------------|----------|-----------------------|---------|--------|----------------------|------------------|
| Hydrogen peroxide | | No data available | | | | |

12.2 Persistence and degradability**Abiotic degradation**

Abiotic degradation - photodegradation in air, if available:

| Ingredient(s) | Half-life time | Method | Evaluation | Remark |
|-------------------|----------------|------------------|------------|--------|
| Hydrogen peroxide | 24 hour(s) | Method not given | OH radical | |

Abiotic degradation - hydrolysis, if available:

| Ingredient(s) | Half-life time in fresh water | Method | Evaluation | Remark |
|-------------------|-------------------------------|--------|------------|--------|
| Hydrogen peroxide | No data available | | | |

Abiotic degradation - other processes, if available:

| Ingredient(s) | Type | Half-life time | Method | Evaluation | Remark |
|-------------------|------|-------------------|--------|------------|--------|
| Hydrogen peroxide | | No data available | | | |

Biodegradation

Ready biodegradability - aerobic conditions

| Ingredient(s) | Inoculum | Analytical method | DT ₅₀ | Method | Evaluation |
|--|--------------------------|---|----------------------|-----------|--------------------------------------|
| alkyl alcohol ethoxylate | Activated sludge, aerobe | | 72% in 28 day(s) | ISO 14593 | Readily biodegradable |
| Hydrogen peroxide | Activated sludge, aerobe | Specific analysis (primary degradation) | > 50 % in < 1 day(s) | | Not applicable (inorganic substance) |
| sodium xylene sulphonate | Activated sludge, aerobe | CO ₂ production | 99.8 % in 28 day(s) | OECD 301B | Readily biodegradable |
| Benzenesulfonic acid, C10-16-alkyl derivatives | | | | OECD 301D | Readily biodegradable |

Ready biodegradability - anaerobic and marine conditions, if available:

| Ingredient(s) | Medium & Type | Analytical method | DT ₅₀ | Method | Evaluation |
|-------------------|---------------|-------------------|------------------|--------|-------------------|
| Hydrogen peroxide | | | | | No data available |

Degradation in relevant environmental compartments, if available:

| Ingredient(s) | Medium & Type | Analytical method | DT ₅₀ | Method | Evaluation |
|-------------------|---------------|-------------------|------------------|--------|-------------------|
| Hydrogen peroxide | | | | | No data available |

12.3 Bioaccumulative potential

Partition coefficient n-octanol/water (log Kow)

| Ingredient(s) | Value | Method | Evaluation | Remark |
|--|-------------------|------------------|-----------------------------|--------|
| alkyl alcohol ethoxylate | No data available | | | |
| Hydrogen peroxide | -1.57 | | No bioaccumulation expected | |
| sodium xylene sulphonate | -3.12 | Method not given | No bioaccumulation expected | |
| Benzenesulfonic acid, C10-16-alkyl derivatives | No data available | | | |

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Bioconcentration factor (BCF)

| Ingredient(s) | Value | Species | Method | Evaluation | Remark |
|--|-------------------|---------|--------|-----------------------------------|--------|
| alkyl alcohol ethoxylate | No data available | | | | |
| Hydrogen peroxide | 1.4 | | QSAR | Low potential for bioaccumulation | |
| sodium xylene sulphonate | No data available | | | | |
| Benzenesulfonic acid, C10-16-alkyl derivatives | 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 |
|--|--------------------------------|-------------------------------------|--------|--------------------|----------------|
| alkyl alcohol ethoxylate | No data available | | | | |
| Hydrogen peroxide | 2 | | | | Mobile in soil |
| sodium xylene sulphonate | No data available | | | | |
| Benzenesulfonic acid, C10-16-alkyl derivatives | 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 or ID number: Non-dangerous goods

14.2 UN proper shipping name: Non-dangerous goods

14.3 Transport hazard class(es): Non-dangerous goods

14.4 Packing group: Non-dangerous goods

14.5 Environmental hazards: Non-dangerous goods

14.6 Special precautions for user: Non-dangerous goods

14.7 Maritime transport in bulk according to IMO instruments: Non-dangerous goods

Other relevant information:

Hazchem code: None allocated

IMO/IMDG

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

HSR002530.

Group standard

Cleaning Products (Subsidiary Hazard) 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

6.4A - Irritating to the eye

9.1C - Harmful in the aquatic environment

SECTION 16: Other information

PERdiem SmartDose

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: MS32000726**Version:** 03.0**Revision:** 2023-05-03**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
- 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