



TASKI ROOM CARE R1 - PLUS

Revision: 2019-04-03

Version: 01.0

SECTION 1: Identification of the substance/mixture and supplier

1.1 Product identifier

Product name: TASKI ROOM CARE R1 - PLUS

1.2 Recommended use and restrictions on use

Identified uses:

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

Fax: + 64 9 813 9801

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

HSNO Classification

3.1D - Flammable liquids: low hazard

6.1E - Acutely toxic (inhalation)

8.1A - Corrosive to metals

8.2C - Corrosive to dermal tissue

8.3A - Corrosive to ocular tissue

9.1A - Very ecotoxic in the aquatic environment

GHS Equivalent Classification

Flammable liquids, Category 4

Specific target organ toxicity (single exposure), Category 3

Corrosive to metals, Category 1

Skin corrosion, Category 1C

Serious eye damage, Category 1

Acute aquatic toxicity, Category 1

2.2 Label elements



Signal word: Danger

Hazard statements:

H227 - Combustible liquid.

H314 - Causes severe skin burns and eye damage.

H335 - May cause respiratory irritation.

H400 - Very toxic to aquatic life.

H290 - May be corrosive to metals.

Prevention statement(s):

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P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 P233 - Keep container tightly closed.
 P234 - Keep only in original packaging.
 P261 - Avoid breathing vapours.
 P264 - Wash face, hands and any exposed skin thoroughly after handling.
 P271 - Use only outdoors or in a well-ventilated area.
 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.
 P370 + P378 - In case of fire: Use chemical powder to extinguish.
 P390 - Absorb spillage to prevent material damage.

Storage statement(s):

P403 + P233 - Store in a well-ventilated place. Keep container tightly closed.
 P403 + P235 - Store in a well-ventilated place. Keep cool.
 P405 - Store locked up.
 P406 - Store in corrosive-resistant container with a resistant inner liner.

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 (%): 9.09

HSNO Classification

6.3B - Mildly irritating to the skin
 6.4A - Irritating to the eye
 9.1D - Slightly harmful to the aquatic environment or are otherwise designed for biocidal action

GHS Equivalent Classification

Skin irritation, Category 3
 Serious eye irritation, Category 2
 Acute aquatic toxicity, Category 2

2.5 Label elements diluted product

Dilution Signal word: Warning.

H316 - Causes mild skin irritation.
 H319 - Causes serious eye irritation.
 H401 - Toxic to aquatic life.

P264 - Wash face, hands and any exposed skin thoroughly after handling.
 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.
 P501 - Dispose of unused content as chemical waste.

SECTION 3: Composition/information on ingredients**3.1 Substances / Mixtures**

| Ingredient(s) | CAS number | EC number | Weight |
|---------------|------------|-----------|--------|
|---------------|------------|-----------|--------|

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| | | | percent |
|---|------------|-----------|---------|
| citric acid | 77-92-9 | 201-069-1 | 10-30 |
| quaternary ammonium compounds, trimethyltallow alkyl, chlorides | 8030-78-2 | 232-447-4 | 3-10 |
| propane-1,2-diol | 57-55-6 | 200-338-0 | 3-10 |
| propan-2-ol | 67-63-0 | 200-661-7 | 3-10 |
| sodium xylene sulphonate | 1300-72-7 | 215-090-9 | 1-3 |
| amines, dimethyltallow alkyl | 68814-69-7 | 272-339-4 | 0.1-1 |

[4] Polymer.

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

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

SECTION 4: First aid measures

4.1 Description of first aid measures

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. 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:

Take off immediately all contaminated clothing and wash it before re-use. Immediately call a POISON CENTRE, doctor or physician.

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:

May cause respiratory irritation.

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

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

Turn off all sources of ignition. Ventilate the area. Ensure adequate ventilation. Do not breathe dust or vapour. Wear suitable protective clothing, gloves and 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.

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6.3 Methods and material for containment and cleaning up

Use neutralising agent. Absorb with liquid-binding material (sand, diatomite, universal binders, sawdust). Ensure adequate ventilation.

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:**

Keep away from flames and hot surfaces. No smoking. Keep away from heat. Take precautionary measures against static discharges.

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. Do not breathe vapours. 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 well-ventilated place. Store in a closed container. Keep only in original packaging. Keep cool. Keep away from heat and direct sunlight.

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) |
|------------------|--|-----------------------------------|------------------|
| propane-1,2-diol | 150 ppm 474 mg/m ³ 10 mg/m ³ | | |
| 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:

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

Appropriate engineering controls:

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

Appropriate organisational controls:

Avoid direct contact and/or splashes where possible. Train personnel.

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

Safety glasses or goggles (EN 166). 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 (EN 374). Verify instructions regarding permeability and breakthrough time, as provided by the gloves supplier. Consider specific local use conditions, such as risk of splashes, cuts, contact time and temperature.

Suggested gloves for prolonged contact: Material: butyl rubber Penetration time: ≥ 480 min Material thickness: ≥ 0.7 mm

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

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

Body protection:

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

Respiratory protection:

Respiratory protection is not normally required. However, inhalation of vapour, spray, gas or

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aerosols should be avoided.

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

Recommended safety measures for handling the diluted product:

Recommended maximum concentration (%): 9.09

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: 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: Clear, Dark, Blue | |
| Odour: Slightly perfumed | |
| Odour threshold: Not applicable | |
| pH: ≈ 0.8 (neat) | ISO 4316 |
| Dilution pH: < 2 (10%) | 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): Combustible. | |
| Flash point (°C): Not determined | closed cup |
| Sustained combustion: The product does not sustain combustion | UN Manual of Tests and Criteria, section 32, L.2 Weight of evidence |
| <i>(UN Manual of Tests and Criteria, section 32, L.2)</i> | |
| 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: ≈ 1.136 (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: ≈ 60 mPa.s (20 °C) | Not relevant to classification of this product |
| Explosive properties: Not explosive. Vapours may form explosive mixtures with air. | |
| Oxidising properties: Not oxidising | Not oxidising, based on substance properties |
| 9.2 Other information | |
| Surface tension (N/m): Not determined | |
| Corrosion to metals: 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

Reacts with alkali and metals. 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): >5000

ATE - Dermal (mg/kg): >5000

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) |
|---|------------------|-------------------|---------|-------------------|-------------------|
| citric acid | LD ₅₀ | 3000 | Rat | Method not given | |
| quatarnary ammonium compounds, trimethyltallow alkyl, chlorides | LD ₅₀ | 300-2000 | Rat | Method not given | |
| propane-1,2-diol | LD ₅₀ | > 10000 | Rat | Method not given | |
| propan-2-ol | LD ₅₀ | 3570 | Rat | Method not given | |
| sodium xylene sulphonate | LD ₅₀ | > 7200 | Rat | OECD 401 (EU B.1) | |
| amines, dimethyltallow alkyl | | No data available | | | |

Acute dermal toxicity

| Ingredient(s) | Endpoint | Value (mg/kg) | Species | Method | Exposure time (h) |
|---|------------------|-------------------|---------|--------------------|-------------------|
| citric acid | LD ₅₀ | > 2000 | Rat | Method not given | |
| quatarnary ammonium compounds, trimethyltallow alkyl, chlorides | LD ₅₀ | 200-1000 | | | |
| propane-1,2-diol | LD ₅₀ | > 2000 | Rabbit | Method not given | |
| propan-2-ol | LD ₅₀ | > 2000 | Rabbit | Method not given | |
| sodium xylene sulphonate | LD ₅₀ | > 2000 | Rabbit | EPA OPPTS 870.1200 | |
| amines, dimethyltallow alkyl | | No data available | | | |

Acute inhalative toxicity

| Ingredient(s) | Endpoint | Value (mg/l) | Species | Method | Exposure time (h) |
|---|------------------|------------------------------------|---------|--------------------|-------------------|
| citric acid | | No data available | | | |
| quatarnary ammonium compounds, trimethyltallow alkyl, chlorides | | No data available | | | |
| propane-1,2-diol | LC ₅₀ | > 317 (mist) No mortality observed | Rabbit | Non guideline test | |
| propan-2-ol | LC ₅₀ | > 25 (vapour) | Rat | OECD 403 (EU B.2) | 6 |
| sodium xylene sulphonate | LC ₀ | > 6.41 (mist) | Rat | Method not given | 4 |
| amines, dimethyltallow alkyl | | No data available | | | |

Irritation and corrosivity

Skin irritation and corrosivity

| Ingredient(s) | Result | Species | Method | Exposure time |
|---|-------------------|---------|-------------------|---------------|
| citric acid | Not irritant | Rabbit | OECD 404 (EU B.4) | |
| quatarnary ammonium compounds, trimethyltallow alkyl, chlorides | Corrosive | | | |
| propane-1,2-diol | Not irritant | Rabbit | OECD 404 (EU B.4) | |
| propan-2-ol | Not irritant | Rabbit | OECD 404 (EU B.4) | |
| sodium xylene sulphonate | Mild irritant | Rabbit | OECD 404 (EU B.4) | |
| amines, dimethyltallow alkyl | No data available | | | |

Eye irritation and corrosivity

| Ingredient(s) | Result | Species | Method | Exposure time |
|---|-------------------|---------|-------------------|---------------|
| citric acid | Irritant | Rabbit | OECD 405 (EU B.5) | |
| quatarnary ammonium compounds, trimethyltallow alkyl, chlorides | No data available | | | |

| | | | | |
|------------------------------|---------------------------|--------|-------------------|--|
| propane-1,2-diol | Not corrosive or irritant | Rabbit | OECD 405 (EU B.5) | |
| propan-2-ol | Irritant | Rabbit | OECD 405 (EU B.5) | |
| sodium xylene sulphonate | Irritant | Rabbit | OECD 405 (EU B.5) | |
| amines, dimethyltallow alkyl | No data available | | | |

Respiratory tract irritation and corrosivity

| Ingredient(s) | Result | Species | Method | Exposure time |
|---|-------------------|---------|--------|---------------|
| citric acid | No data available | | | |
| quaternary ammonium compounds, trimethyltallow alkyl, chlorides | No data available | | | |
| propane-1,2-diol | No data available | | | |
| propan-2-ol | No data available | | | |
| sodium xylene sulphonate | No data available | | | |
| amines, dimethyltallow alkyl | No data available | | | |

Sensitisation

Sensitisation by skin contact

| Ingredient(s) | Result | Species | Method | Exposure time (h) |
|---|-------------------|------------|----------------------------------|-------------------|
| citric acid | Not sensitising | Guinea pig | Method not given | |
| quaternary ammonium compounds, trimethyltallow alkyl, chlorides | No data available | | | |
| propane-1,2-diol | Not sensitising | Guinea pig | OECD 406 (EU B.6) / GPMT | |
| propan-2-ol | Not sensitising | Guinea pig | OECD 406 (EU B.6) / Buehler test | |
| sodium xylene sulphonate | Not sensitising | Guinea pig | OECD 406 (EU B.6) / GPMT | |
| amines, dimethyltallow alkyl | No data available | | | |

Sensitisation by inhalation

| Ingredient(s) | Result | Species | Method | Exposure time |
|---|-------------------|---------|--------|---------------|
| citric acid | No data available | | | |
| quaternary ammonium compounds, trimethyltallow alkyl, chlorides | No data available | | | |
| propane-1,2-diol | No data available | | | |
| propan-2-ol | No data available | | | |
| sodium xylene sulphonate | No data available | | | |
| amines, dimethyltallow alkyl | 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) |
|---|---|-----------------------|---|--------------------|
| citric acid | No data available | | No evidence of genotoxicity, negative test results | Method not given |
| quaternary ammonium compounds, trimethyltallow alkyl, chlorides | No data available | | No data available | |
| propane-1,2-diol | No evidence for mutagenicity, negative test results | Method not given | 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) |
| sodium xylene sulphonate | No evidence for mutagenicity, negative test results | OECD 473 | No evidence for mutagenicity, negative test results | OECD 474 (EU B.12) |
| amines, dimethyltallow alkyl | No data available | | No data available | |

Carcinogenicity

| Ingredient(s) | Effect |
|---|--|
| citric acid | No evidence for carcinogenicity, negative test results |
| quaternary ammonium compounds, trimethyltallow alkyl, chlorides | No data available |
| propane-1,2-diol | No evidence for carcinogenicity, negative test results |
| propan-2-ol | No data available |
| sodium xylene sulphonate | No evidence for carcinogenicity, negative test results |
| amines, dimethyltallow alkyl | 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 |
|---|----------|-----------------|--------------------|---------|--------|---------------|---------------------------------------|
| citric acid | | | No data available | | | | No evidence for reproductive toxicity |
| quaternary ammonium compounds, trimethyltallow alkyl, chlorides | | | No data available | | | | |
| propane-1,2-diol | | | No data | | | | No evidence for reproductive |

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| | | | | | | | |
|------------------------------|-------|---------------------|-------------------|-----|--------------------|--|----------|
| | | | available | | | | toxicity |
| propan-2-ol | | | No data available | | | | |
| sodium xylene sulphonate | NOAEL | Teratogenic effects | > 936 | Rat | Non guideline test | | |
| amines, dimethyltallow alkyl | | | 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 |
|---|----------|--------------------|---------|--------------------|----------------------|--------------------------------------|
| citric acid | | No data available | | | | |
| quaternary ammonium compounds, trimethyltallow alkyl, chlorides | | No data available | | | | |
| propane-1,2-diol | | No data available | | | | |
| propan-2-ol | | No data available | | | | |
| sodium xylene sulphonate | NOAEL | 763 - 3534 | Rat | OECD 408 (EU B.26) | 90 | |
| amines, dimethyltallow alkyl | | 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 |
|---|----------|--------------------|---------|--------------------|----------------------|--------------------------------------|
| citric acid | | No data available | | | | |
| quaternary ammonium compounds, trimethyltallow alkyl, chlorides | | No data available | | | | |
| propane-1,2-diol | | No data available | | | | |
| propan-2-ol | | No data available | | | | |
| sodium xylene sulphonate | NOAEL | > 440 | | OECD 411 (EU B.28) | 90 | |
| amines, dimethyltallow alkyl | | 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 |
|---|----------|--------------------|---------|--------|----------------------|--------------------------------------|
| citric acid | | No data available | | | | |
| quaternary ammonium compounds, trimethyltallow alkyl, chlorides | | No data available | | | | |
| propane-1,2-diol | | No data available | | | | |
| propan-2-ol | | No data available | | | | |
| sodium xylene sulphonate | | No data available | | | | |
| amines, dimethyltallow alkyl | | 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 |
|---|----------------|----------|--------------------|---------|--------------------|---------------|--------------------------------------|--------|
| citric acid | | | No data available | | | | | |
| quaternary ammonium compounds, trimethyltallow alkyl, chlorides | | | No data available | | | | | |
| propane-1,2-diol | | | No data available | | | | | |
| propan-2-ol | | | No data available | | | | | |
| sodium xylene sulphonate | Oral | | No data available | Rat | OECD 453 (EU B.33) | 24 month(s) | No adverse effects observed | |
| amines, dimethyltallow alkyl | | | No data available | | | | | |

STOT-single exposure

| Ingredient(s) | Affected organ(s) |
|---|-------------------|
| citric acid | No data available |
| quaternary ammonium compounds, trimethyltallow alkyl, chlorides | No data available |
| propane-1,2-diol | No data available |

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| | |
|------------------------------|-------------------|
| propan-2-ol | No data available |
| sodium xylene sulphonate | No data available |
| amines, dimethyltallow alkyl | No data available |

STOT-repeated exposure

| Ingredient(s) | Affected organ(s) |
|---|-------------------|
| citric acid | No data available |
| quaternary ammonium compounds, trimethyltallow alkyl, chlorides | No data available |
| propane-1,2-diol | No data available |
| propan-2-ol | No data available |
| sodium xylene sulphonate | No data available |
| amines, dimethyltallow alkyl | 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) |
|---|------------------|-------------------|----------------------------|--------------------|-------------------|
| citric acid | LC ₅₀ | 440 | <i>Leuciscus idus</i> | Method not given | 48 |
| quaternary ammonium compounds, trimethyltallow alkyl, chlorides | LC ₅₀ | > 0.1-1 | <i>Oncorhynchus mykiss</i> | Method not given | 96 |
| propane-1,2-diol | LC ₅₀ | > 1000 | <i>Fish</i> | Method not given | 24 |
| propan-2-ol | LC ₅₀ | > 100 | <i>Pimephales promelas</i> | Method not given | 48 |
| sodium xylene sulphonate | LC ₅₀ | > 1000 | <i>Fish</i> | EPA-OPPTS 850.1075 | 96 |
| amines, dimethyltallow alkyl | | No data available | | | |

Aquatic short-term toxicity - crustacea

| Ingredient(s) | Endpoint | Value (mg/l) | Species | Method | Exposure time (h) |
|---|------------------|-------------------|-----------------------------|--------------------|-------------------|
| citric acid | EC ₅₀ | 1535 | <i>Daphnia magna</i> Straus | Method not given | 24 |
| quaternary ammonium compounds, trimethyltallow alkyl, chlorides | EC ₅₀ | > 0.01-0.1 | <i>Daphnia</i> | Read across | 48 |
| propane-1,2-diol | EC ₅₀ | > 100 | <i>Daphnia</i> | Method not given | 48 |
| propan-2-ol | EC ₅₀ | > 100 | <i>Daphnia magna</i> Straus | Method not given | 48 |
| sodium xylene sulphonate | EC ₅₀ | > 1000 | <i>Daphnia</i> | EPA-OPPTS 850.1010 | 48 |
| amines, dimethyltallow alkyl | | No data available | | | |

Aquatic short-term toxicity - algae

| Ingredient(s) | Endpoint | Value (mg/l) | Species | Method | Exposure time (h) |
|---|------------------|-------------------|--------------------------------|--------------------|-------------------|
| citric acid | LC ₅₀ | 425 | <i>Scenedesmus quadricauda</i> | Method not given | 168 |
| quaternary ammonium compounds, trimethyltallow alkyl, chlorides | EC ₅₀ | > 0.01-0.1 | <i>Not specified</i> | Read across | 72 |
| propane-1,2-diol | EC ₅₀ | 24200 | <i>Desmodesmus subspicatus</i> | OECD 201 (EU C.3) | 72 |
| propan-2-ol | EC ₅₀ | > 100 | <i>Scenedesmus quadricauda</i> | Method not given | 72 |
| sodium xylene sulphonate | EC ₅₀ | > 230 | <i>Not specified</i> | EPA OPPTS 850.5400 | 96 |
| amines, dimethyltallow alkyl | | No data available | | | |

Aquatic short-term toxicity - marine species

| Ingredient(s) | Endpoint | Value (mg/l) | Species | Method | Exposure time (days) |
|---|----------|-------------------|---------|--------|----------------------|
| citric acid | | No data available | | | - |
| quaternary ammonium compounds, trimethyltallow alkyl, chlorides | | No data | | | - |

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| | | | | | |
|------------------------------|--|-------------------|--|--|---|
| | | available | | | |
| propane-1,2-diol | | No data available | | | - |
| propan-2-ol | | No data available | | | - |
| sodium xylene sulphonate | | No data available | | | - |
| amines, dimethyltallow alkyl | | No data available | | | |

Impact on sewage plants - toxicity to bacteria

| Ingredient(s) | Endpoint | Value (mg/l) | Inoculum | Method | Exposure time |
|---|--------------------------------|-------------------|---------------------------|------------------|---------------|
| citric acid | EC ₅₀ | > 10000 | <i>Pseudomonas putida</i> | Method not given | 16 hour(s) |
| quaternary ammonium compounds, trimethyltallow alkyl, chlorides | | No data available | | | |
| propane-1,2-diol | EC ₀ | > 20000 | <i>Pseudomonas putida</i> | Method not given | 18 hour(s) |
| propan-2-ol | EC ₅₀ | > 1000 | <i>Activated sludge</i> | Method not given | |
| sodium xylene sulphonate | E _r C ₅₀ | > 1000 | <i>Activated sludge</i> | OECD 209 | 3 hour(s) |
| amines, dimethyltallow alkyl | | No data available | | | |

Aquatic long-term toxicity

Aquatic long-term toxicity - fish

| Ingredient(s) | Endpoint | Value (mg/l) | Species | Method | Exposure time | Effects observed |
|---|----------|-------------------|---------|--------|---------------|------------------|
| citric acid | | No data available | | | | |
| quaternary ammonium compounds, trimethyltallow alkyl, chlorides | | No data available | | | | |
| propane-1,2-diol | | No data available | | | | |
| propan-2-ol | | No data available | | | | |
| sodium xylene sulphonate | | No data available | | | | |
| amines, dimethyltallow alkyl | | No data available | | | | |

Aquatic long-term toxicity - crustacea

| Ingredient(s) | Endpoint | Value (mg/l) | Species | Method | Exposure time | Effects observed |
|---|----------|-------------------|---------------------------|------------------|---------------|------------------|
| citric acid | | No data available | | | | |
| quaternary ammonium compounds, trimethyltallow alkyl, chlorides | NOEC | > 0.001 - 0.01 | <i>Daphnia magna</i> | OECD 211 | 21 day(s) | |
| propane-1,2-diol | NOEC | 13020 | <i>Ceriodaphnia dubia</i> | Method not given | 7 day(s) | |
| propan-2-ol | | No data available | | | | |
| sodium xylene sulphonate | | No data available | | | | |
| amines, dimethyltallow alkyl | | 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 |
|---|----------|---------------------------|---------|--------|----------------------|------------------|
| citric acid | | No data available | | | - | |
| quaternary ammonium compounds, trimethyltallow alkyl, chlorides | | No data available | | | - | |
| propane-1,2-diol | | No data available | | | - | |
| propan-2-ol | | No data available | | | - | |
| sodium xylene sulphonate | | No data available | | | - | |
| amines, dimethyltallow alkyl | | No data available | | | | |

Terrestrial toxicity

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

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

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| | | soil) | | | | |
|---|--|-------------------|--|--|---|--|
| citric acid | | No data available | | | - | |
| quaternary ammonium compounds, trimethyltallow alkyl, chlorides | | No data available | | | - | |
| propane-1,2-diol | | No data available | | | - | |
| propan-2-ol | | No data available | | | - | |
| sodium xylene sulphonate | | No data available | | | - | |

Terrestrial toxicity - plants, if available:

| Ingredient(s) | Endpoint | Value (mg/kg dw soil) | Species | Method | Exposure time (days) | Effects observed |
|---|----------|-----------------------|---------|--------|----------------------|------------------|
| citric acid | | No data available | | | - | |
| quaternary ammonium compounds, trimethyltallow alkyl, chlorides | | No data available | | | - | |
| propane-1,2-diol | | No data available | | | - | |
| propan-2-ol | | No data available | | | - | |
| sodium xylene sulphonate | | No data available | | | - | |

Terrestrial toxicity - birds, if available:

| Ingredient(s) | Endpoint | Value | Species | Method | Exposure time (days) | Effects observed |
|---|----------|-------------------|---------|--------|----------------------|------------------|
| citric acid | | No data available | | | - | |
| quaternary ammonium compounds, trimethyltallow alkyl, chlorides | | No data available | | | - | |
| propane-1,2-diol | | No data available | | | - | |
| propan-2-ol | | No data available | | | - | |
| sodium xylene sulphonate | | No data available | | | - | |

Terrestrial toxicity - beneficial insects, if available:

| Ingredient(s) | Endpoint | Value (mg/kg dw soil) | Species | Method | Exposure time (days) | Effects observed |
|---|----------|-----------------------|---------|--------|----------------------|------------------|
| citric acid | | No data available | | | - | |
| quaternary ammonium compounds, trimethyltallow alkyl, chlorides | | No data available | | | - | |
| propane-1,2-diol | | No data available | | | - | |
| propan-2-ol | | No data available | | | - | |
| sodium xylene sulphonate | | No data available | | | - | |

Terrestrial toxicity - soil bacteria, if available:

| Ingredient(s) | Endpoint | Value (mg/kg dw soil) | Species | Method | Exposure time (days) | Effects observed |
|---|----------|-----------------------|---------|--------|----------------------|------------------|
| citric acid | | No data available | | | - | |
| quaternary ammonium compounds, trimethyltallow alkyl, chlorides | | No data available | | | - | |
| propane-1,2-diol | | No data available | | | - | |
| propan-2-ol | | No data available | | | - | |
| sodium xylene sulphonate | | No data available | | | - | |

12.2 Persistence and degradability

Abiotic degradation

Abiotic degradation - photodegradation in air, if available:

Abiotic degradation - hydrolysis, if available:

Abiotic degradation - other processes, if available:

Biodegradation

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Ready biodegradability - aerobic conditions

| Ingredient(s) | Inoculum | Analytical method | DT ₅₀ | Method | Evaluation |
|---|--------------------------|-------------------|---------------------|-----------|-----------------------|
| citric acid | | | 97 % in 28 day(s) | OECD 301B | Readily biodegradable |
| quaternary ammonium compounds, trimethyltallow alkyl, chlorides | Activated sludge, aerobe | Oxygen depletion | | OECD 301D | Readily biodegradable |
| propane-1,2-diol | | | > 70 % in 28 day(s) | OECD 301A | Readily biodegradable |
| propan-2-ol | | | 95 % in 21 day(s) | OECD 301E | Readily biodegradable |
| sodium xylene sulphonate | | | 99.8 % in 28 day(s) | OECD 301F | Readily biodegradable |
| amines, dimethyltallow alkyl | | | | | No data available |

Ready biodegradability - anaerobic and marine conditions, if available:

Degradation in relevant environmental compartments, if available:

12.3 Bioaccumulative potentialPartition coefficient n-octanol/water (log K_{ow})

| Ingredient(s) | Value | Method | Evaluation | Remark |
|---|-------------------|------------------|-----------------------------|--------|
| citric acid | -1.72 | | No bioaccumulation expected | |
| quaternary ammonium compounds, trimethyltallow alkyl, chlorides | No data available | | | |
| propane-1,2-diol | -1.07 | Method not given | No bioaccumulation expected | |
| propan-2-ol | 0.05 | OECD 107 | No bioaccumulation expected | |
| sodium xylene sulphonate | -3.12 | Method not given | No bioaccumulation expected | |
| amines, dimethyltallow alkyl | No data available | | | |

Bioconcentration factor (BCF)

| Ingredient(s) | Value | Species | Method | Evaluation | Remark |
|---|-------------------|---------|--------|------------|--------|
| citric acid | No data available | | | | |
| quaternary ammonium compounds, trimethyltallow alkyl, chlorides | No data available | | | | |
| propane-1,2-diol | No data available | | | | |
| propan-2-ol | No data available | | | | |
| sodium xylene sulphonate | No data available | | | | |
| amines, dimethyltallow alkyl | No data available | | | | |

12.4 Mobility in soil

Adsorption/Desorption to soil or sediment

| Ingredient(s) | Adsorption coefficient Log K _{oc} | Desorption coefficient Log K _{oc} (des) | Method | Soil/sediment type | Evaluation |
|---|--|--|--------|--------------------|--|
| citric acid | No data available | | | | Potential for mobility in soil, soluble in water |
| quaternary ammonium compounds, trimethyltallow alkyl, chlorides | No data available | | | | |
| propane-1,2-diol | No data available | | | | Potential for mobility in soil, soluble in water |
| propan-2-ol | No data available | | | | Potential for mobility in soil, soluble in water |
| sodium xylene sulphonate | No data available | | | | |
| amines, dimethyltallow alkyl | 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

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**ADG, IMO/IMDG, ICAO/IATA****14.1 UN number:** 3265**14.2 UN proper shipping name:**

Corrosive liquid, acidic, organic, n.o.s. (citric acid , tallowtrimethylammoniumchloride)

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

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**

HSR002527.

Group standard

Cleaning Products (Corrosive, Combustible) 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: MS32000578**Version:** 01.0**Revision:** 2019-04-03

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