



A Solenis Company

Safety Data Sheet

SUMA SURFACE SANITISER SMARTDOSE

Revision: 2023-12-13

Version: 01.1

SECTION 1: Identification of the substance/mixture and supplier

1.1 Product identifier

Product name: SUMA SURFACE SANITISER SMARTDOSE

1.2 Recommended use and restrictions on use

Identified uses:

Hard surface sanitiser

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

Acute toxicity, oral, Category 5

Skin irritation, Category 2

Serious eye damage, Category 1

Chronic aquatic toxicity, Category 3

Terrestrial vertebrates, Category 3

2.2 Label elements



Signal word: Danger

Hazard statements:

H303 - May be harmful if swallowed.

H315 - Causes skin irritation.

H318 - Causes serious eye damage.

H401 - Toxic to aquatic life.

H433 - Harmful to terrestrial vertebrates.

Prevention statement(s):

P233 - Keep container tightly closed.

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

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

Response statement(s):

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

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

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

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

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

SUMA SURFACE SANITISER SMARTDOSE

P362 - Take off contaminated clothing.

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): 0.44

Not classified as hazardous

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

| Ingredient(s) | CAS# | EC number | Weight percent |
|---|------------|-----------|----------------|
| Alcohols, C12-15, ethoxylated | 68131-39-5 | [4] | 3-10 |
| sodium carbonate | 497-19-8 | 207-838-8 | 1-3 |
| quaternary ammonium compounds, benzyl-C12-18-alkyldimethyl, chlorides | 68391-01-5 | 269-919-4 | 1-3 |
| quaternary ammonium compounds, C12-18-alkyl[(ethylphenyl)methyl]dimethyl, chlorides | 68956-79-6 | 273-318-2 | 1-3 |
| tetrasodium ethylene diamine tetraacetate | 64-02-8 | 200-573-9 | 1-3 |
| ethanol | 64-17-5 | 200-578-6 | 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**

| | |
|--|---|
| Inhalation: | Remove person to fresh air and keep comfortable for breathing. Get medical attention or advice if you feel unwell. |
| Skin contact: | Wash skin with plenty of lukewarm, gently flowing water. If skin irritation 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. 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: | Causes irritation. |
| Eye contact: | Causes severe or permanent damage. |
| Ingestion: | No known effects or symptoms in normal use. |

4.3 Indication of any immediate medical attention and special treatment needed

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

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

SECTION 5: Firefighting measures**5.1 Extinguishing media**

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

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

SUMA SURFACE SANITISER SMARTDOSE

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

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

6.2 Environmental precautions

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

6.3 Methods and material for containment and cleaning up

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

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 contaminated clothing. Wash contaminated clothing before reuse. 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. Keep from freezing. 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 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 (AS/NZS 1337.1).

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.

SUMA SURFACE SANITISER SMARTDOSE

| | |
|---|---|
| Body protection: | Wear chemical-resistant clothing and boots in case direct dermal exposure and/or splashes may occur (EN 14605). |
| Respiratory protection: | No special requirements under normal use conditions. |
| Environmental exposure controls: | No special requirements under normal use conditions. |

Recommended safety measures for handling the diluted product:

Recommended maximum concentration (% w/w): 0.44

| | |
|---|--|
| 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: | 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 , Red | |
| Odour: Bland | |
| Odour threshold: Not applicable | |
| pH: ≈ 11.7 (neat) | ISO 4316 |
| 10 | |
| 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 density: ≈ 1.04 (20 °C) | OECD 109 (EU A.3) |
| Relative vapour density: Not determined. | Not relevant to classification of this product |
| Particle characteristics: No data available. | Not applicable to liquids. |
| 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.

SUMA SURFACE SANITISER SMARTDOSE

10.3 Possibility of hazardous reactions

No hazardous reactions known under normal storage and use conditions.

10.4 Conditions to avoid

None known under normal storage and use conditions.

10.5 Incompatible materials

Reacts with acids.

10.6 Hazardous decomposition products

None known under normal storage and use conditions.

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

Mixture data: .

Relevant calculated ATE(s):

ATE - Oral (mg/kg): 4600

ATE - Dermal (mg/kg): >5000

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

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, C12-15, ethoxylated | LD ₅₀ | >300 - <=2000 | Rat | Method not given | |
| sodium carbonate | LD ₅₀ | 2800 | Rat | OECD 401 (EU B.1) | |
| 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 | |
| tetrasodium ethylene diamine tetraacetate | LD ₅₀ | 1780 | Rat | OECD 401 (EU B.1) | |

Acute dermal toxicity

| Ingredient(s) | Endpoint | Value (mg/kg) | Species | Method | Exposure time (h) |
|---|------------------|-------------------|---------|------------------|-------------------|
| Alcohols, C12-15, ethoxylated | LD ₅₀ | >300 - <=2000 | Rabbit | Method not given | |
| sodium carbonate | LD ₅₀ | > 2000 | Rabbit | Method not given | |
| 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 | |
| tetrasodium ethylene diamine tetraacetate | LD ₅₀ | > 5000 | Rabbit | Method not given | |

Acute inhalative toxicity

| Ingredient(s) | Endpoint | Value (mg/l) | Species | Method | Exposure time (h) |
|---|------------------|-------------------|---------|--------------------|-------------------|
| Alcohols, C12-15, ethoxylated | | No data available | | | |
| sodium carbonate | LC ₅₀ | > 2.3 (dust) | | Weight of evidence | 2 |
| 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 | |
| tetrasodium ethylene diamine tetraacetate | LC ₅₀ | ≥ 1-5 (dust) | Rat | OECD 403 (EU B.2) | 6 |

Irritation and corrosivity

Skin irritation and corrosivity

| Ingredient(s) | Result | Species | Method | Exposure time |
|---|-------------------|---------|-------------------|---------------|
| Alcohols, C12-15, ethoxylated | Mild irritant | | | |
| sodium carbonate | Not irritant | Rabbit | OECD 404 (EU B.4) | |
| quaternary ammonium compounds, C12-18-alkyl[(ethylphenyl)methyl]dimethyl, chlorides | No data available | | | |
| quaternary ammonium compounds, benzyl-C12-18-alkyldimethyl, chlorides | No data available | | | |
| tetrasodium ethylene diamine tetraacetate | Not irritant | Rabbit | OECD 404 (EU B.4) | |

SUMA SURFACE SANITISER SMARTDOSE

Eye irritation and corrosivity

| Ingredient(s) | Result | Species | Method | Exposure time |
|---|-------------------|---------|-------------------|---------------|
| Alcohols, C12-15, ethoxylated | Severe damage | | | |
| sodium carbonate | Irritant | Rabbit | OECD 405 (EU B.5) | |
| quaternary ammonium compounds, C12-18-alkyl[(ethylphenyl)methyl]dimethyl, chlorides | No data available | | | |
| quaternary ammonium compounds, benzyl-C12-18-alkyldimethyl, chlorides | No data available | | | |
| tetrasodium ethylene diamine tetraacetate | Severe damage | | Method not given | |

Respiratory tract irritation and corrosivity

| Ingredient(s) | Result | Species | Method | Exposure time |
|---|-------------------|---------|--------|---------------|
| Alcohols, C12-15, ethoxylated | No data available | | | |
| sodium carbonate | 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 | | | |
| tetrasodium ethylene diamine tetraacetate | No data available | | | |

Sensitisation

Sensitisation by skin contact

| Ingredient(s) | Result | Species | Method | Exposure time (h) |
|---|-------------------|------------|--------------------------|-------------------|
| Alcohols, C12-15, ethoxylated | No data available | | | |
| sodium carbonate | Not sensitising | | Method not given | |
| quaternary ammonium compounds, C12-18-alkyl[(ethylphenyl)methyl]dimethyl, chlorides | No data available | | | |
| quaternary ammonium compounds, benzyl-C12-18-alkyldimethyl, chlorides | No data available | | | |
| tetrasodium ethylene diamine tetraacetate | Not sensitising | Guinea pig | OECD 406 (EU B.6) / GPMT | |

Sensitisation by inhalation

| Ingredient(s) | Result | Species | Method | Exposure time |
|---|-------------------|---------|--------|---------------|
| Alcohols, C12-15, ethoxylated | No data available | | | |
| sodium carbonate | 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 | | | |
| tetrasodium ethylene diamine tetraacetate | 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, C12-15, ethoxylated | No data available | | No data available | |
| sodium carbonate | No data available | | 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 |
| tetrasodium ethylene diamine tetraacetate | No evidence for mutagenicity, negative test results | Method not given | No evidence of genotoxicity, negative test results | Method not given |

Carcinogenicity

| Ingredient(s) | Effect |
|---|---|
| Alcohols, C12-15, ethoxylated | No data available |
| sodium carbonate | No evidence for carcinogenicity, 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 evidence for carcinogenicity, weight-of-evidence |
| tetrasodium ethylene diamine tetraacetate | No evidence for carcinogenicity, weight-of-evidence |

Toxicity for reproduction

| Ingredient(s) | Endpoint | Specific effect | Value (mg/kg bw/d) | Species | Method | Exposure time | Remarks and other effects reported |
|-------------------------------|----------|-----------------|--------------------|---------|--------|---------------|------------------------------------|
| Alcohols, C12-15, ethoxylated | | | No data available | | | | |
| sodium carbonate | | | No data available | | | | |
| quaternary ammonium | | | No data | | | | |

SUMA SURFACE SANITISER SMARTDOSE

| | | | | | | | |
|---|--|--|-------------------|--|--|--|---------------------------------------|
| compounds, C12-18-alkyl[(ethylphenyl)methyl]dimethyl, chlorides | | | available | | | | |
| quaternary ammonium compounds, benzyl-C12-18-alkyldimethyl, chlorides | | | No data available | | | | |
| tetrasodium ethylene diamine tetraacetate | | | No data available | | | | No evidence for reproductive toxicity |

Repeated dose toxicity

Sub-acute or sub-chronic oral toxicity

| Ingredient(s) | Endpoint | Value (mg/kg bw/d) | Species | Method | Exposure time (days) | Specific effects and organs affected |
|---|----------|--------------------|---------|--------|----------------------|--------------------------------------|
| Alcohols, C12-15, ethoxylated | | No data available | | | | |
| sodium carbonate | | 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 | | | | |
| tetrasodium ethylene diamine tetraacetate | | 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, C12-15, ethoxylated | | No data available | | | | |
| sodium carbonate | | 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 | | | | |
| tetrasodium ethylene diamine tetraacetate | | 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, C12-15, ethoxylated | | No data available | | | | |
| sodium carbonate | | 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 | | | | |
| tetrasodium ethylene diamine tetraacetate | | 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, C12-15, ethoxylated | | | No data available | | | | | |
| sodium carbonate | | | 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 | | | | | |
| tetrasodium ethylene diamine tetraacetate | | | No data available | | | | | |

STOT-single exposure

| Ingredient(s) | Affected organ(s) |
|---|-------------------|
| Alcohols, C12-15, ethoxylated | No data available |
| sodium carbonate | Not applicable |
| quaternary ammonium compounds, C12-18-alkyl[(ethylphenyl)methyl]dimethyl, | No data available |

SUMA SURFACE SANITISER SMARTDOSE

| | |
|---|-------------------|
| chlorides | |
| quatarnary ammonium compounds, benzyl-C12-18-alkyldimethyl, chlorides | Not applicable |
| tetrasodium ethylene diamine tetraacetate | No data available |

STOT-repeated exposure

| Ingredient(s) | Affected organ(s) |
|---|-------------------|
| Alcohols, C12-15, ethoxylated | No data available |
| sodium carbonate | Not applicable |
| quatarnary ammonium compounds, C12-18-alkyl[(ethylphenyl)methyl]dimethyl, chlorides | No data available |
| quatarnary ammonium compounds, benzyl-C12-18-alkyldimethyl, chlorides | Not applicable |
| tetrasodium ethylene diamine tetraacetate | Respiratory tract |

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) |
|---|------------------|-------------------|----------------------------|--------------------------------------|-------------------|
| Alcohols, C12-15, ethoxylated | LC ₅₀ | > 2 | <i>Fish</i> | Method not given OECD 203, static | 96 |
| sodium carbonate | LC ₅₀ | 300 | <i>Lepomis macrochirus</i> | Method not given | 96 |
| quatarnary ammonium compounds, C12-18-alkyl[(ethylphenyl)methyl]dimethyl, chlorides | | No data available | | | |
| quatarnary ammonium compounds, benzyl-C12-18-alkyldimethyl, chlorides | | No data available | | | |
| tetrasodium ethylene diamine tetraacetate | LC ₅₀ | > 100 | <i>Lepomis macrochirus</i> | OPP 72-1, static (EPA) | 96 |

Aquatic short-term toxicity - crustacea

| Ingredient(s) | Endpoint | Value (mg/l) | Species | Method | Exposure time (h) |
|---|------------------|-------------------|-----------------------------|--------------------------------------|-------------------|
| Alcohols, C12-15, ethoxylated | EC ₅₀ | 0.23 | <i>Daphnia</i> | Method not given OECD 202, static | 48 |
| sodium carbonate | EC ₅₀ | 200-227 | <i>Ceriodaphnia dubia</i> | Method not given | 96 |
| quatarnary ammonium compounds, C12-18-alkyl[(ethylphenyl)methyl]dimethyl, chlorides | | No data available | | | |
| quatarnary ammonium compounds, benzyl-C12-18-alkyldimethyl, chlorides | | No data available | | | |
| tetrasodium ethylene diamine tetraacetate | EC ₅₀ | 140 | <i>Daphnia magna Straus</i> | DIN 38412, Part 11 | 48 |

Aquatic short-term toxicity - algae

| Ingredient(s) | Endpoint | Value (mg/l) | Species | Method | Exposure time (h) |
|---|------------------|-------------------|--|----------------------------|-------------------|
| Alcohols, C12-15, ethoxylated | EC ₅₀ | 0.75 | <i>Pseudokirchneriella subcapitata</i> | | 72 |
| sodium carbonate | EC ₅₀ | > 800 | <i>Selenastrum capricornutum</i> | | 72 |
| quatarnary ammonium compounds, C12-18-alkyl[(ethylphenyl)methyl]dimethyl, chlorides | | No data available | | | |
| quatarnary ammonium compounds, benzyl-C12-18-alkyldimethyl, chlorides | | No data available | | | |
| tetrasodium ethylene diamine tetraacetate | EC ₅₀ | > 100 | <i>Scenedesmus obliquus</i> | 88/302/EEC, Part C, static | 72 |

Aquatic short-term toxicity - marine species

| Ingredient(s) | Endpoint | Value | Species | Method | Exposure |
|---------------|----------|-------|---------|--------|----------|
|---------------|----------|-------|---------|--------|----------|

SUMA SURFACE SANITISER SMARTDOSE

| | (mg/l) | time (days) |
|---|-------------------|-------------|
| Alcohols, C12-15, ethoxylated | No data available | |
| sodium carbonate | 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 | |
| tetrasodium ethylene diamine tetraacetate | No data available | |

Impact on sewage plants - toxicity to bacteria

| Ingredient(s) | Endpoint | Value (mg/l) | Inoculum | Method | Exposure time |
|---|------------------|-------------------|------------------|----------|---------------|
| Alcohols, C12-15, ethoxylated | | No data available | | | |
| sodium carbonate | | 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 | | | |
| tetrasodium ethylene diamine tetraacetate | EC ₂₀ | > 500 | Activated sludge | OECD 209 | 0.5 hour(s) |

Aquatic long-term toxicity

Aquatic long-term toxicity - fish

| Ingredient(s) | Endpoint | Value (mg/l) | Species | Method | Exposure time | Effects observed |
|---|----------|-------------------|--------------------------|------------------|---------------|------------------|
| Alcohols, C12-15, ethoxylated | NOEC | > 0.1 - <= 1.0 | | Method not given | | |
| sodium carbonate | | 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 | | | | |
| tetrasodium ethylene diamine tetraacetate | NOEC | > 25.7 | <i>Brachydanio rerio</i> | OECD 210 | 35 day(s) | |

Aquatic long-term toxicity - crustacea

| Ingredient(s) | Endpoint | Value (mg/l) | Species | Method | Exposure time | Effects observed |
|---|----------|-------------------|----------------------|------------------|---------------|------------------|
| Alcohols, C12-15, ethoxylated | NOEC | > 0.1 - <= 1.0 | | Method not given | | |
| sodium carbonate | | 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 | | | | |
| tetrasodium ethylene diamine tetraacetate | NOEC | 25 | <i>Daphnia magna</i> | OECD 211 | 21 day(s) | |

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

| Ingredient(s) | Endpoint | Value (mg/kg dw sediment) | Species | Method | Exposure time (days) | Effects observed |
|-------------------------------|------------------|---------------------------|---------|--------|----------------------|------------------|
| Alcohols, C12-15, ethoxylated | EC ₅₀ | No data available | | | | |
| sodium carbonate | | 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 |
|---|------------------|-----------------------|-----------------------|----------|----------------------|------------------|
| sodium carbonate | | No data available | | | | |
| tetrasodium ethylene diamine tetraacetate | LD ₅₀ | 156 | <i>Eisenia fetida</i> | OECD 207 | 14 | |

Terrestrial toxicity - plants, if available:

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

SUMA SURFACE SANITISER SMARTDOSE

| | | | | | | |
|---|------|-------------------|--|--|----|--|
| sodium carbonate | | No data available | | | | |
| tetrasodium ethylene diamine tetraacetate | NOEC | 0.25 - 1.25 | | | 21 | |

Terrestrial toxicity - birds, if available:

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

Terrestrial toxicity - beneficial insects, if available:

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

Terrestrial toxicity - soil bacteria, if available:

| Ingredient(s) | Endpoint | Value (mg/kg dw soil) | Species | Method | Exposure time (days) | Effects observed |
|------------------|----------|-----------------------|---------|--------|----------------------|------------------|
| sodium carbonate | | 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 |
|---|-------------------|--------|------------|--------|
| sodium carbonate | No data available | | | |
| tetrasodium ethylene diamine tetraacetate | No data available | | | |

Abiotic degradation - hydrolysis, if available:

| Ingredient(s) | Half-life time in fresh water | Method | Evaluation | Remark |
|---|-------------------------------|--------|----------------------|--------|
| sodium carbonate | No data available | | Rapidly hydrolysible | |
| tetrasodium ethylene diamine tetraacetate | No data available | | | |

Abiotic degradation - other processes, if available:

| Ingredient(s) | Type | Half-life time | Method | Evaluation | Remark |
|---|------|-------------------|--------|------------|--------|
| sodium carbonate | | No data available | | | |
| tetrasodium ethylene diamine tetraacetate | | No data available | | | |

Biodegradation

Ready biodegradability - aerobic conditions

| Ingredient(s) | Inoculum | Analytical method | DT ₅₀ | Method | Evaluation |
|---|--------------------------|----------------------------|------------------|--------------------|--------------------------------------|
| Alcohols, C12-15, ethoxylated | Activated sludge, aerobe | CO ₂ production | 72% in 28 day(s) | OECD 301B | Readily biodegradable |
| sodium carbonate | | | | | Not applicable (inorganic substance) |
| 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 |
| tetrasodium ethylene diamine tetraacetate | | | | Weight of evidence | Not readily biodegradable. |

Ready biodegradability - anaerobic and marine conditions, if available:

| Ingredient(s) | Medium & Type | Analytical method | DT ₅₀ | Method | Evaluation |
|---|---------------|-------------------|------------------|--------|-------------------|
| sodium carbonate | | | | | No data available |
| tetrasodium ethylene diamine tetraacetate | | | | | No data available |

Degradation in relevant environmental compartments, if available:

| Ingredient(s) | Medium & Type | Analytical method | DT ₅₀ | Method | Evaluation |
|---|---------------|-------------------|------------------|--------|-------------------|
| sodium carbonate | | | | | No data available |
| tetrasodium ethylene diamine tetraacetate | | | | | No data available |

12.3 Bioaccumulative potential

Partition coefficient n-octanol/water (log Kow)

SUMA SURFACE SANITISER SMARTDOSE

| Ingredient(s) | Value | Method | Evaluation | Remark |
|---|-------------------|------------------|-----------------------------|--------|
| Alcohols, C12-15, ethoxylated | No data available | | | |
| sodium carbonate | No data available | | No bioaccumulation expected | |
| 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 | | |
| tetrasodium ethylene diamine tetraacetate | -3.86 | Method not given | No bioaccumulation expected | |

Bioconcentration factor (BCF)

| Ingredient(s) | Value | Species | Method | Evaluation | Remark |
|---|-------------------|----------------------------|------------------|-----------------------------------|--------|
| Alcohols, C12-15, ethoxylated | No data available | | | | |
| sodium carbonate | No data available | | | No bioaccumulation expected | |
| 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 | | |
| tetrasodium ethylene diamine tetraacetate | 1.8 | <i>Lepomis macrochirus</i> | OECD 305 | Low potential for bioaccumulation | |

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, C12-15, ethoxylated | No data available | | | | |
| sodium carbonate | 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 | | | | |
| tetrasodium ethylene diamine tetraacetate | No data available | | | | Adsorption to solid soil phase is not expected |

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

Environmentally hazardous: No

14.6 Special precautions for user: Non-dangerous goods

14.7 Maritime transport in bulk according to IMO instruments: The product is not transported in bulk tankers. Non-dangerous goods

Other relevant information:

Hazchem code: None allocated

SUMA SURFACE SANITISER SMARTDOSE

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 6.1E - Acutely toxic (oral)
 6.3A - Irritating to the skin
 8.3A - Corrosive to ocular tissue
 9.1C - Harmful in the aquatic environment
 9.3C - Harmful to terrestrial vertebrates

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: MS3200590

Version: 01.1

Revision: 2023-12-13

Reason for revision:

This data sheet contains changes from the previous version in section(s):, 8

Abbreviations and acronyms:

- DNEL - Derived No Effect Limit
- AUH - Non GHS 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 - Organisation for Economic Cooperation and Development
- H410 - Very toxic to aquatic life with long lasting effects.
- H411 - Toxic to aquatic life with long lasting effects.
- H412 - Harmful to aquatic life with long lasting effects.

End of Safety Data Sheet