

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

Revision: 2026-07-27

Version: 01.0

SECTION 1: Identification of the substance/mixture and supplier

1.1 Product identifier

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

1.2 Recommended use and restrictions on use

Identified uses:

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

Restrictions of use:

Uses other than those identified are not recommended

1.3 Details of the supplier

Diversey New Zealand Ltd
5C Clemway Place, Henderson, Waitakere City,
Auckland, 0610, NEW ZEALAND.
Telephone: 0800 803 615 (toll free)

Product information:

Email: customerservices.nz@solenis.com

Website: products.solenis.com/en-NZ

1.4 Emergency telephone number

Seek medical advice (show the label or safety data sheet where possible)

Call 0800 243 622 (24 hrs)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Skin corrosion, Category 1C

Serious eye damage, Category 1

Acute aquatic toxicity, Category 1

Chronic aquatic toxicity, Category 2

2.2 Label elements



Signal word: Danger

Hazard statements:

H314 - Causes severe skin burns and eye damage.

H410 - Very toxic to aquatic life with long lasting effects.

Prevention statement(s):

P233 - Keep container tightly closed.

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

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

Response statement(s):

P301 + P330 + P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/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 CENTER or doctor/physician.

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

P363 - Wash contaminated clothing before reuse.

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Storage statement(s):

P405 - Store locked up.

Disposal statement(s):

P501 - Dispose of unused content as chemical waste.

2.3 Other hazards

No other hazards known.

2.4 Classification diluted product:

Maximum recommended use concentration (% w/w): 0.26

Not classified as hazardous

SECTION 3: Composition/information on ingredients

3.1 Substances / Mixtures

Ingredient(s)	CAS#	EC number	Weight %
C9-11 alcohols, ethoxylated (>5-≤10EO)	68439-46-3	[4]	10-30
Ethoxylated secondary alcohol	84133-50-6		10-30
n-Alkyl (68% C12, 32% C14) dimethyl ethylbenzyl ammonium chloride	68956-79-6	273-318-2	3-10
n-Alkyl (60% C14, 30% C16, 5% C12, 5% C18) dimethyl benzyl ammonium chloride	68391-01-5	269-919-4	3-10
Fatty acids, C8-18 and C18 unsaturated	67701-05-7	266-929-0	1-3

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

[4] Polymer.

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

SECTION 4: First aid measures

4.1 Description of first aid measures**General Information:**

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

Inhalation:

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

Skin contact:

Wash skin with plenty of lukewarm, gently flowing water. Take off immediately all contaminated clothing and wash it before reuse. Immediately call a POISON CENTER or doctor/physician. If skin irritation occurs: Get medical advice or attention.

Eye contact:

Hold eyelids apart and flush eyes with plenty of lukewarm water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/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 CENTER or doctor/physician.

Self-protection of first aider:

Consider personal protective equipment as indicated in subsection 8.2.

First aid facilities:

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

4.2 Most important symptoms and effects, both acute and delayed**Inhalation:**

No known effects or symptoms in normal use.

Skin contact:

Causes severe burns.

Eye contact:

Causes severe or permanent damage.

Ingestion:

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

4.3 Indication of immediate medical attention and notes for physician.

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) or +643 479 7248

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

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No special hazards known.

5.3 Advice for firefighters

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

5.4 Hazchem code

2X

2 - Fine water spray

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

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

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

6.2 Environmental precautions

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

6.3 Methods and material for containment and cleaning up

Dike 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.

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.

Advice on general occupational hygiene:

Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs. Do not mix with other products unless advised by Diversey. Wash face, hands and any exposed skin thoroughly after handling. Take off immediately all contaminated clothing. Wash contaminated clothing before reuse. Avoid contact with skin and eyes. Use only with adequate ventilation. See section 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 container.

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.

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

Safety glasses or goggles (AS/NZS 1337.1). The use of a full-face shield or other full-face protection is strongly recommended when handling open containers or if splashes may occur.

Hand protection:

Chemical-resistant protective gloves (AS/NZS 2161.10). Verify instructions regarding permeability and breakthrough time, as provided by the gloves supplier. Consider specific local use conditions, such as risk of splashes, cuts, contact time and temperature.

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

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

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

Body protection:

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

Respiratory protection:

No special requirements under normal use conditions.

Environmental exposure controls:

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

Recommended safety measures for handling the diluted product:

Maximum recommended use concentration (% w/w): 0.26

Appropriate engineering controls:

No special requirements under normal use conditions.

Appropriate organisational controls:

No special requirements under normal use conditions.

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

No special requirements under normal use conditions.

Hand protection:

No special requirements under normal use conditions.

Body protection:

No special requirements under normal use conditions.

Respiratory protection:

No special requirements under normal use conditions.

Environmental exposure controls:

No special requirements under normal use conditions.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

	Method / remark
Physical State: Liquid	
Color: Hazy , Green	
Odor: Surfactant	
Odor threshold: Not applicable	
pH: ≈ 9 (neat)	ISO 4316
Dilution pH: < 2 (0.26 %)	ISO 4316
Melting point/freezing point (°C): Not determined	Not relevant to classification of this product
Initial boiling point and boiling range (°C): Not determined	
Flammability (liquid): Not flammable.	
Flash point (°C): > 93 °C	closed cup
Sustained combustion: Not applicable (UN Manual of Tests and Criteria, section 32, L.2)	
Evaporation Rate: Not determined	Not relevant to classification of this product
Flammability (solid, gas): Not applicable to liquids	
Lower and upper explosion limit/flammability limit (%): Not determined	
Vapor pressure: Not determined	
Relative density: ≈ 1.01 (20 °C)	OECD 109 (EU A.3)
Relative vapor density: No data available.	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

Kinematic viscosity: ≈ 67 mPa.s (20 °C)

Explosive properties: Not explosive.

Oxidising properties: Not oxidising.

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9.2 Other information

Surface tension (N/m): Not determined

Corrosion to metals: Not corrosive to metals

SECTION 10: Stability and reactivity

10.1 Reactivity

No reactivity hazards known under normal storage and use conditions.

10.2 Chemical stability

Stable under normal storage and use conditions.

10.3 Possibility of hazardous reactions

No hazardous reactions known under normal storage and use conditions.

10.4 Conditions to avoid

None known under normal storage and use conditions.

10.5 Incompatible materials

None known under normal use conditions.

10.6 Hazardous decomposition products

None known under normal storage and use conditions.

SECTION 11: Toxicological information

11.1 Information on toxicological effectsMixture data: .**Relevant calculated ATE(s):**

ATE - Oral (mg/kg): >2000

ATE - Dermal (mg/kg): >2000

Skin irritation and corrosivity**Result:** Skin corrosive 1C**Method:** Weight of EvidenceSubstance data: where relevant and available, are listed below:.**Acute toxicity**

Acute oral toxicity

Ingredient(s)	Endpoint	Value (mg/kg)	Species	Method	Exposure time (h)
Ethoxylated secondary alcohol		No data available			
C9-11 alcohols, ethoxylated (>5-≤10EO)	LD ₅₀	1400	Rat	Weight of evidence	
n-Alkyl (68% C12, 32% C14) dimethyl ethylbenzyl ammonium chloride		304.5			
n-Alkyl (60% C14, 30% C16, 5% C12, 5% C18) dimethyl benzyl ammonium chloride	LD ₅₀	304.5	Rat	Method not given	
Fatty acids, C8-18 and C18 unsaturated	LD ₅₀	> 5000	Rat	OECD 401 (EU B.1) Read across	
C9-11 alcohols, ethoxylated (2.5-4 EO)	LD ₅₀	> 2000			

Acute dermal toxicity

Ingredient(s)	Endpoint	Value (mg/kg)	Species	Method	Exposure time (h)
Ethoxylated secondary alcohol		No data available			
C9-11 alcohols, ethoxylated (>5-≤10EO)	LD ₅₀	2000 - 5000	Rat	Weight of evidence	
n-Alkyl (68% C12, 32% C14) dimethyl ethylbenzyl ammonium chloride		No data available			
n-Alkyl (60% C14, 30% C16, 5% C12, 5% C18) dimethyl benzyl ammonium chloride	LD ₅₀	930	Rat	Method not given	
Fatty acids, C8-18 and C18 unsaturated	LD ₅₀	> 2000	Rabbit	OECD 434 Read across	
C9-11 alcohols, ethoxylated (2.5-4 EO)		No data available			

Acute inhalative toxicity

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Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
Ethoxylated secondary alcohol		No data available			
C9-11 alcohols, ethoxylated (>5-≤10EO)		No data available			
n-Alkyl (68% C12, 32% C14) dimethyl ethylbenzyl ammonium chloride		No data available			
n-Alkyl (60% C14, 30% C16, 5% C12, 5% C18) dimethyl benzyl ammonium chloride	LC ₅₀	0.054		Method not given	
Fatty acids, C8-18 and C18 unsaturated	LC ₅₀	> 0.1521	Rat	Read across	4
C9-11 alcohols, ethoxylated (2.5-4 EO)		No data available			

Irritation and corrosivity

Skin irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
Ethoxylated secondary alcohol	Irritant			
C9-11 alcohols, ethoxylated (>5-≤10EO)	Not irritant		Weight of evidence	
n-Alkyl (68% C12, 32% C14) dimethyl ethylbenzyl ammonium chloride	No data available			
n-Alkyl (60% C14, 30% C16, 5% C12, 5% C18) dimethyl benzyl ammonium chloride	No data available			
Fatty acids, C8-18 and C18 unsaturated	Irritant		OECD 404 (EU B.4) Read across	
C9-11 alcohols, ethoxylated (2.5-4 EO)	No data available			

Eye irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
Ethoxylated secondary alcohol	Severe damage			
C9-11 alcohols, ethoxylated (>5-≤10EO)	Severe damage	Rabbit	Weight of evidence OECD 437	
n-Alkyl (68% C12, 32% C14) dimethyl ethylbenzyl ammonium chloride	No data available			
n-Alkyl (60% C14, 30% C16, 5% C12, 5% C18) dimethyl benzyl ammonium chloride	No data available			
Fatty acids, C8-18 and C18 unsaturated	Irritant		OECD 405 (EU B.5) Read across	
C9-11 alcohols, ethoxylated (2.5-4 EO)	Irritant			

Respiratory tract irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
Ethoxylated secondary alcohol	No data available			
C9-11 alcohols, ethoxylated (>5-≤10EO)	No data available			
n-Alkyl (68% C12, 32% C14) dimethyl ethylbenzyl ammonium chloride	No data available			
n-Alkyl (60% C14, 30% C16, 5% C12, 5% C18) dimethyl benzyl ammonium chloride	No data available			
Fatty acids, C8-18 and C18 unsaturated	No data available			
C9-11 alcohols, ethoxylated (2.5-4 EO)	No data available			

Sensitisation

Sensitisation by skin contact

Ingredient(s)	Result	Species	Method	Exposure time (h)
Ethoxylated secondary alcohol	No data available			
C9-11 alcohols, ethoxylated (>5-≤10EO)	Not sensitising		Weight of evidence	
n-Alkyl (68% C12, 32% C14) dimethyl ethylbenzyl ammonium chloride	No data available			
n-Alkyl (60% C14, 30% C16, 5% C12, 5% C18) dimethyl benzyl ammonium chloride	No data available			
Fatty acids, C8-18 and C18 unsaturated	Not sensitising		Read across	
C9-11 alcohols, ethoxylated (2.5-4 EO)	No data available			

Sensitisation by inhalation

Ingredient(s)	Result	Species	Method	Exposure time
Ethoxylated secondary alcohol	No data available			
C9-11 alcohols, ethoxylated (>5-≤10EO)	No data available			
n-Alkyl (68% C12, 32% C14) dimethyl ethylbenzyl ammonium chloride	No data available			
n-Alkyl (60% C14, 30% C16, 5% C12, 5% C18) dimethyl benzyl ammonium chloride	No data available			
Fatty acids, C8-18 and C18 unsaturated	No data available			
C9-11 alcohols, ethoxylated (2.5-4 EO)	No data available			

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CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**Mutagenicity**

Ingredient(s)	Result (in-vitro)	Method (in-vitro)	Result (in-vivo)	Method (in-vivo)
Ethoxylated secondary alcohol	No data available		No data available	
C9-11 alcohols, ethoxylated (>5-≤10EO)	No evidence for mutagenicity, negative test results	OECD 473	No data available	
n-Alkyl (68% C12, 32% C14) dimethyl ethylbenzyl ammonium chloride	No data available		No data available	
n-Alkyl (60% C14, 30% C16, 5% C12, 5% C18) dimethyl benzyl ammonium chloride	No evidence for genotoxicity, weight of evidence	Weight of evidence	No evidence for mutagenicity	Weight of evidence
Fatty acids, C8-18 and C18 unsaturated	No evidence for mutagenicity	OECD 471 (EU B.12/13) Read across	No data available	
C9-11 alcohols, ethoxylated (2.5-4 EO)	No data available		No data available	

Carcinogenicity

Ingredient(s)	Effect
Ethoxylated secondary alcohol	No data available
C9-11 alcohols, ethoxylated (>5-≤10EO)	No evidence for carcinogenicity, negative test results
n-Alkyl (68% C12, 32% C14) dimethyl ethylbenzyl ammonium chloride	No data available
n-Alkyl (60% C14, 30% C16, 5% C12, 5% C18) dimethyl benzyl ammonium chloride	No evidence for carcinogenicity, weight-of-evidence
Fatty acids, C8-18 and C18 unsaturated	No data available
C9-11 alcohols, ethoxylated (2.5-4 EO)	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
Ethoxylated secondary alcohol			No data available				
C9-11 alcohols, ethoxylated (>5-≤10EO)	NOAEL		> 250	Rat	Not known		No effects on fertility No developmental toxicity
n-Alkyl (68% C12, 32% C14) dimethyl ethylbenzyl ammonium chloride			No data available				
n-Alkyl (60% C14, 30% C16, 5% C12, 5% C18) dimethyl benzyl ammonium chloride			No data available				
Fatty acids, C8-18 and C18 unsaturated	NOAEL	Developmental toxicity Teratogenic effects	600		OECD 421/422 Read across		
C9-11 alcohols, ethoxylated (2.5-4 EO)			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
Ethoxylated secondary alcohol		No data available				
C9-11 alcohols, ethoxylated (>5-≤10EO)	NOAEL	80 - 400		OECD 408 (EU B.26)		
n-Alkyl (68% C12, 32% C14) dimethyl ethylbenzyl ammonium chloride		No data available				
n-Alkyl (60% C14, 30% C16, 5% C12, 5% C18) dimethyl benzyl ammonium chloride		No data available				
Fatty acids, C8-18 and C18 unsaturated	NOAEL	1000	Rat	OECD 422, oral		
C9-11 alcohols, ethoxylated (2.5-4 EO)		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
Ethoxylated secondary alcohol		No data available				
C9-11 alcohols, ethoxylated (>5-≤10EO)	NOAEL	80		OECD 411 (EU B.28)	90	
n-Alkyl (68% C12, 32% C14) dimethyl ethylbenzyl ammonium chloride		No data available				

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n-Alkyl (60% C14, 30% C16, 5% C12, 5% C18) dimethyl benzyl ammonium chloride		No data available				
Fatty acids, C8-18 and C18 unsaturated		No data available				
C9-11 alcohols, ethoxylated (2.5-4 EO)		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
Ethoxylated secondary alcohol		No data available				
C9-11 alcohols, ethoxylated (>5-≤10EO)		No data available				
n-Alkyl (68% C12, 32% C14) dimethyl ethylbenzyl ammonium chloride		No data available				
n-Alkyl (60% C14, 30% C16, 5% C12, 5% C18) dimethyl benzyl ammonium chloride		No data available				
Fatty acids, C8-18 and C18 unsaturated		No data available				
C9-11 alcohols, ethoxylated (2.5-4 EO)		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
Ethoxylated secondary alcohol			No data available					
C9-11 alcohols, ethoxylated (>5-≤10EO)			No data available					
n-Alkyl (68% C12, 32% C14) dimethyl ethylbenzyl ammonium chloride			No data available					
n-Alkyl (60% C14, 30% C16, 5% C12, 5% C18) dimethyl benzyl ammonium chloride			No data available					
Fatty acids, C8-18 and C18 unsaturated			No data available					
C9-11 alcohols, ethoxylated (2.5-4 EO)			No data available					

STOT-single exposure

Ingredient(s)	Affected organ(s)
Ethoxylated secondary alcohol	No data available
C9-11 alcohols, ethoxylated (>5-≤10EO)	No data available
n-Alkyl (68% C12, 32% C14) dimethyl ethylbenzyl ammonium chloride	No data available
n-Alkyl (60% C14, 30% C16, 5% C12, 5% C18) dimethyl benzyl ammonium chloride	Not applicable
Fatty acids, C8-18 and C18 unsaturated	No data available
C9-11 alcohols, ethoxylated (2.5-4 EO)	No data available

STOT-repeated exposure

Ingredient(s)	Affected organ(s)
Ethoxylated secondary alcohol	No data available
C9-11 alcohols, ethoxylated (>5-≤10EO)	No data available
n-Alkyl (68% C12, 32% C14) dimethyl ethylbenzyl ammonium chloride	No data available
n-Alkyl (60% C14, 30% C16, 5% C12, 5% C18) dimethyl benzyl ammonium chloride	Not applicable
Fatty acids, C8-18 and C18 unsaturated	No data available
C9-11 alcohols, ethoxylated (2.5-4 EO)	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

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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)
Ethoxylated secondary alcohol	LC ₅₀	No data available			
C9-11 alcohols, ethoxylated (>5-≤10EO)	LC ₅₀	5 - 7	<i>Fish</i>	92/69/EEC, C1, semi-static	96
n-Alkyl (68% C12, 32% C14) dimethyl ethylbenzyl ammonium chloride		No data available			
n-Alkyl (60% C14, 30% C16, 5% C12, 5% C18) dimethyl benzyl ammonium chloride		No data available			
Fatty acids, C8-18 and C18 unsaturated	LC ₅₀	5	<i>Oryzias latipes</i>	OECD 203 (EU C.1) Read across	96
C9-11 alcohols, ethoxylated (2.5-4 EO)	LC ₅₀	≥ 1	<i>Fish</i>	Method not given	96

Aquatic short-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
Ethoxylated secondary alcohol	EC ₅₀	3.1	<i>Daphnia magna Straus</i>	OECD 202 (EU C.2)	48
C9-11 alcohols, ethoxylated (>5-≤10EO)	EC ₅₀	5.3	<i>Daphnia</i>	92/69/EEC	48
n-Alkyl (68% C12, 32% C14) dimethyl ethylbenzyl ammonium chloride		No data available			
n-Alkyl (60% C14, 30% C16, 5% C12, 5% C18) dimethyl benzyl ammonium chloride		No data available			
Fatty acids, C8-18 and C18 unsaturated	EC ₅₀	3.6	<i>Daphnia magna Straus</i>	OECD 202 (EU C.2) Read across	48
C9-11 alcohols, ethoxylated (2.5-4 EO)		No data available			

Aquatic short-term toxicity - algae

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
Ethoxylated secondary alcohol		No data available			
C9-11 alcohols, ethoxylated (>5-≤10EO)	EC ₅₀	1.4 - 47	<i>Not specified</i>	92/69/EEC	72
n-Alkyl (68% C12, 32% C14) dimethyl ethylbenzyl ammonium chloride		No data available			
n-Alkyl (60% C14, 30% C16, 5% C12, 5% C18) dimethyl benzyl ammonium chloride		No data available			
Fatty acids, C8-18 and C18 unsaturated	EC ₅₀	7.6	<i>Pseudokirchneriella subcapitata</i>	OECD 201, static	echa
C9-11 alcohols, ethoxylated (2.5-4 EO)		No data available			

Aquatic short-term toxicity - marine species

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (days)
Ethoxylated secondary alcohol		No data available			
C9-11 alcohols, ethoxylated (>5-≤10EO)		No data available			
n-Alkyl (68% C12, 32% C14) dimethyl ethylbenzyl ammonium chloride		No data available			
n-Alkyl (60% C14, 30% C16, 5% C12, 5% C18) dimethyl benzyl ammonium chloride		No data available			
Fatty acids, C8-18 and C18 unsaturated		No data available			
C9-11 alcohols, ethoxylated (2.5-4 EO)		No data available			

Impact on sewage plants - toxicity to bacteria

Ingredient(s)	Endpoint	Value (mg/l)	Inoculum	Method	Exposure time
Ethoxylated secondary alcohol		No data available			
C9-11 alcohols, ethoxylated (>5-≤10EO)	EC ₅₀	> 140	<i>Bacteria</i>	DIN EN ISO 8192-OECD 209-88/302/EEC	3 hour(s)

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n-Alkyl (68% C12, 32% C14) dimethyl ethylbenzyl ammonium chloride		No data available			
n-Alkyl (60% C14, 30% C16, 5% C12, 5% C18) dimethyl benzyl ammonium chloride		No data available			
Fatty acids, C8-18 and C18 unsaturated		No data available			
C9-11 alcohols, ethoxylated (2.5-4 EO)		No data available			

Aquatic long-term toxicity

Aquatic long-term toxicity - fish

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
Ethoxylated secondary alcohol		No data available				
C9-11 alcohols, ethoxylated (>5-≤10EO)	LC ₁₀	8.983	<i>Not specified</i>	Method not given	21 day(s)	
n-Alkyl (68% C12, 32% C14) dimethyl ethylbenzyl ammonium chloride		No data available				
n-Alkyl (60% C14, 30% C16, 5% C12, 5% C18) dimethyl benzyl ammonium chloride		No data available				
Fatty acids, C8-18 and C18 unsaturated		No data available				
C9-11 alcohols, ethoxylated (2.5-4 EO)		No data available				

Aquatic long-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
Ethoxylated secondary alcohol		No data available				
C9-11 alcohols, ethoxylated (>5-≤10EO)	EC ₁₀	2.579	<i>Daphnia sp.</i>	Method not given	21 day(s)	
n-Alkyl (68% C12, 32% C14) dimethyl ethylbenzyl ammonium chloride		No data available				
n-Alkyl (60% C14, 30% C16, 5% C12, 5% C18) dimethyl benzyl ammonium chloride		No data available				
Fatty acids, C8-18 and C18 unsaturated	NOEC	0.31	<i>Daphnia magna</i>	OECD 211 Read across	21 day(s)	
C9-11 alcohols, ethoxylated (2.5-4 EO)		No data available				

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

Terrestrial toxicity

Terrestrial toxicity - earthworms, if available:

Terrestrial toxicity - plants, if available:

Terrestrial toxicity - birds, if available:

Terrestrial toxicity - beneficial insects, if available:

Terrestrial toxicity - soil bacteria, if available:

12.2 Persistence and degradability**Abiotic degradation**

Abiotic degradation - photodegradation in air, if available:

Abiotic degradation - hydrolysis, if available:

Abiotic degradation - other processes, if available:

Biodegradation

Ready biodegradability - aerobic conditions

Ingredient(s)	Inoculum	Analytical method	DT ₅₀	Method	Evaluation
Ethoxylated secondary alcohol			> 60 % in 28 day(s)	OECD 301F	Readily biodegradable
C9-11 alcohols, ethoxylated (>5-≤10EO)				OECD 301B	Readily biodegradable
n-Alkyl (68% C12, 32% C14) dimethyl ethylbenzyl ammonium chloride					Not readily biodegradable

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n-Alkyl (60% C14, 30% C16, 5% C12, 5% C18) dimethyl benzyl ammonium chloride				Method not given	Readily biodegradable
Fatty acids, C8-18 and C18 unsaturated			> 60% in 30 day(s)	OECD 301D	Readily biodegradable
C9-11 alcohols, ethoxylated (2.5-4 EO)	Activated sludge, aerobe				Readily biodegradable

Ready biodegradability - anaerobic and marine conditions, if available:

Degradation in relevant environmental compartments, if available:

12.3 Bioaccumulative potential

Partition coefficient n-octanol/water (log Kow)

Ingredient(s)	Value	Method	Evaluation	Remark
Ethoxylated secondary alcohol	3.3 - 4.4			
C9-11 alcohols, ethoxylated (>5=<10EO)	3.11 - 4.19	Method not given	High potential for bioaccumulation	
n-Alkyl (68% C12, 32% C14) dimethyl ethylbenzyl ammonium chloride	No data available			
n-Alkyl (60% C14, 30% C16, 5% C12, 5% C18) dimethyl benzyl ammonium chloride	3.91	Method not given		
Fatty acids, C8-18 and C18 unsaturated	No data available			
C9-11 alcohols, ethoxylated (2.5-4 EO)	No data available			

Bioconcentration factor (BCF)

Ingredient(s)	Value	Species	Method	Evaluation	Remark
Ethoxylated secondary alcohol	No data available				
C9-11 alcohols, ethoxylated (>5=<10EO)	< 500		Method not given	High potential for bioaccumulation	
n-Alkyl (68% C12, 32% C14) dimethyl ethylbenzyl ammonium chloride	No data available				
n-Alkyl (60% C14, 30% C16, 5% C12, 5% C18) dimethyl benzyl ammonium chloride	182.8		Method not given		
Fatty acids, C8-18 and C18 unsaturated	225			Low potential for bioaccumulation	
C9-11 alcohols, ethoxylated (2.5-4 EO)	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
Ethoxylated secondary alcohol	No data available				
C9-11 alcohols, ethoxylated (>5=<10EO)	No data available				Potential for mobility in soil, soluble in water
n-Alkyl (68% C12, 32% C14) dimethyl ethylbenzyl ammonium chloride	No data available				
n-Alkyl (60% C14, 30% C16, 5% C12, 5% C18) dimethyl benzyl ammonium chloride	No data available				
Fatty acids, C8-18 and C18 unsaturated	No data available				Low mobility in soil
C9-11 alcohols, ethoxylated (2.5-4 EO)	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 (undiluted product): 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:

Suitable cleaning agents:

Dispose of observing national or local regulations.

Water, if necessary with cleaning agent.

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SECTION 14: Transport information



ADG, IMO/IMDG, ICAO/IATA

14.1 UN number or ID number: 3267

14.2 UN proper shipping name:

Corrosive liquid, n.o.s. (alkylidimethyl[(ethylphenyl)methyl]ammoniumchloride)

14.3 Transport hazard class(es):

Transport hazard class (and subsidiary risks): 8

14.4 Packing group: III

14.5 Environmental hazards:

Environmentally hazardous: No

Marine pollutant: No

14.6 Special precautions for user: None known.

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

Other relevant information:

Hazchem code: 2X

IMO/IMDG

EmS: F-A, S-B

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

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

SECTION 15: Regulatory information

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

HSNO Approval Number

HSR002526.

Group standard

Cleaning Products (Corrosive) Group Standard 2020

Inventory Listing(s)

New Zealand: NZIoC (New Zealand Inventory of Chemicals)

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

HSNO Classification

8.2C - Corrosive to dermal tissue

8.3A - Corrosive to ocular tissue

9.1A - Very ecotoxic in the aquatic environment

SECTION 16: Other information

The information in this document is based on our best present knowledge. However, it does not constitute a guarantee for any specific product features and does not establish a legally binding contract

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Abbreviations and acronyms:

- ATE - Acute Toxicity Estimate
- AUH - Non GHS hazard statement
- DNEL - Derived No Effect Level
- 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 - Organization for Economic Cooperation and Development
- PNEC - Predicted No Effect Concentration
- STOT-RE - Specific target organ toxicity (repeated exposure)

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- STOT-SE - Specific target organ toxicity (single exposure)

End of Safety Data Sheet