

Safety Data Sheet

REVEAL

Revision: 2018-08-21 **Version:** 01.0

SECTION 1: Identification of the substance/mixture and supplier

1.1 Product identifier

Product name: REVEAL

1.2 Recommended use and restrictions on use

Identified uses: Floor 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

Call 0800 243 622 (24 hrs)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

HSNO Classification

6.3A - Irritating to the skin

8.3A - Corrosive to ocular tissue

9.1D - Slightly harmful to the aquatic environment or are otherwise designed for biocidal action

GHS Equivalent Classification

Skin irritation, Category 2 Serious eye damage, Category 1 Acute aquatic toxicity, Category 3

2.2 Label elements



Signal word: Danger

Hazard statements:

H315 - Causes skin irritation.

H318 - Causes serious eye damage.

H402 - Harmful to aquatic life.

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).

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 (%): 2.44

HSNO Classification

Not classified as hazardous

Not classified as hazardous

SECTION 3: Composition/information on ingredients

3.1 Substances / Mixtures

Ingredient(s)	CAS number	EC number	Weight
			percent
2-aminoethanol	141-43-5	205-483-3	3-10
2-butoxyethanol	111-76-2	203-905-0	1-3
sodium xylene sulphonate	1300-72-7	215-090-9	1-3
Alcohols, C10-12, ethoxylated propoxylated	68154-97-2		0.1-1
ammonia	1336-21-6	215-647-6	0.1-1

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

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, sawdust).

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 adviced by Diversey. Wash hands before breaks and at the end of workday. Wash face, hands and any exposed skin thoroughly after handling. Take off immediately all contaminated clothing. Wash contaminated clothing before reuse. Use personal protective equipment as required. Avoid contact with eyes. Use only with adequate ventilation. See chapter 8.2, Exposure controls / Personal protection.

7.2 Conditions for safe storage, including any incompatibilities

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

7.3 Specific end use(s)

No specific advice for end use available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters Workplace exposure limits

Air limit values, if available:

Ingredient(s)	Long term value(s)	Short term value(s)	Ceiling value(s)
2-aminoethanol	3 ppm	6 ppm	
	7.5 mg/m ³	15 mg/m ³	
2-butoxyethanol	25 ppm		
	121 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.

Avoid direct contact and/or splashes where possible. Train personnel. Appropriate organisational controls:

Personal protective equipment

Eye / face protection:

Safety glasses or goggles (EN 166).

Chemical-resistant protective gloves (EN 374). Verify instructions regarding permeability and Hand protection:

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: No special requirements under normal use conditions.

Recommended safety measures for handling the diluted product:

Recommended maximum concentration (%): 2.44

Appropriate engineering controls:

Appropriate organisational controls:

No special requirements under normal use conditions.

No special requirements under normal use conditions.

Personal protective equipment

Eye / face protection: No special requirements under normal use conditions. Covered by respiratory protection.

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, Purple
Odour: Product specific

Odour threshold: Not applicable

pH: ≈ 12 (neat)

Melting point/freezing point (°C): Not determined

Initial boiling point and boiling range (°C): Not determined

Flash point (°C): > 93.4

Sustained combustion: Not applicable. (UN Manual of Tests and Criteria, section 32, L.2)

Evaporation rate: Not determined

Flammability (solid, gas): Not applicable to liquids Upper/lower flammability limit (%): Not determined

Vapour pressure: Not determined Vapour density: Not determined Relative density: ≈ 1.007 (20 °C)

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

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ISO 4316

Not relevant to classification of this product

closed cup

Not relevant to classification of this product

Not relevant to classification of this product

OECD 109 (EU A.3)

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 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): >5000 ATE - Dermal (mg/kg): >5000 ATE - Inhalatory, vapours (mg/l): 170

Substance data, where relevant and available, are listed below:.

ammonia

Acute toxicity

Ingredient(s)	Endpoint	Value (mg/kg)	Species	Method	Exposure time (h)
2-aminoethanol	LD 50	1089	Rat	OECD 401 (EU B.1)	
2-butoxyethanol	LD 50	1746	Rat	Method not given	
sodium xylene sulphonate	LD 50	> 7200	Rat	Method not given	
Alcohols, C10-12, ethoxylated propoxylated		No data available			
ammonia	LD 50	350	Rat	Method not given	

Acute dermal toxicity Ingredient(s) Endpoint Value Species Method Exposure (mg/kg) 2-aminoethanol LD 50 2000 Rabbit Method not given 2-butoxyethanol LD 50 6411 Method not given Rabbit Method not given sodium xylene sulphonate LD 50 > 2000 Alcohols, C10-12, ethoxylated propoxylated No data available

No data available

Acute inhalative toxicity

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
2-aminoethanol	LC 50	No mortality observed	Rat	Method not given	4
2-butoxyethanol	LC 50	> 2 (mist) No mortality observed	Rat	Method not given	4
sodium xylene sulphonate	LC ₀	> 6.41 (mist)	Rat	Method not given	4
Alcohols, C10-12, ethoxylated propoxylated		No data available			
ammonia	LC 50	7.035	Rat	Method not given	0.5

Irritation and corrosivity

Skin irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
2-aminoethanol	Corrosive	Rabbit	OECD 404 (EU B.4)	Exposure time
2-butoxyethanol	Irritant	Rabbit	OECD 404 (EU B.4)	24; 48; 72 hour(s)
sodium xylene sulphonate	Mild irritant	Rabbit	OECD 404 (EU B.4)	
Alcohols, C10-12, ethoxylated propoxylated	No data available			
ammonia	Corrosive		Method not given	

Eye irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
2-aminoethanol	Severe damage	Rabbit	OECD 405 (EU B.5)	
2-butoxyethanol	Irritant	Rabbit	OECD 405 (EU B.5)	24; 48; 72 hour(s)
sodium xylene sulphonate	Irritant	Rabbit	OECD 405 (EU B.5)	
Alcohols, C10-12, ethoxylated propoxylated	No data available			
ammonia	Severe damage		Method not given	

Respiratory tract irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
2-aminoethanol	Irritating to		Method not given	
	respiratory tract			
2-butoxyethanol	No data available			
sodium xylene sulphonate	No data available			
Alcohols, C10-12, ethoxylated propoxylated	No data available			
ammonia	Irritating to respiratory tract		Method not given	

Sensitisation Sensitisation by skin contact

Ingredient(s)	Result	Species	Method	Exposure time (h)
2-aminoethanol	Not sensitising	Guinea pig	OECD 406 (EU B.6) / GPMT	
2-butoxyethanol	Not sensitising	Guinea pig	OECD 406 (EU B.6) / GPMT	
sodium xylene sulphonate	Not sensitising	Guinea pig	OECD 406 (EU B.6) / GPMT	
Alcohols, C10-12, ethoxylated propoxylated	No data available			
ammonia	Not sensitising		Method not given	

Sensitisation by inhalation

Ingredient(s)	Result	Species	Method	Exposure time
2-aminoethanol	No data available			
2-butoxyethanol	No data available			
sodium xylene sulphonate	No data available			
Alcohols, C10-12, ethoxylated propoxylated	No data available			
ammonia	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)
2-aminoethanol		OECD 471 (EU B.12/13) OECD 473 OECD 476 (Mouse lymphoma)	test results	OECD 474 (EU B.12)
2-butoxyethanol				OECD 474 (EU B.12)
sodium xylene sulphonate	No evidence for mutagenicity, negative test results		No evidence for mutagenicity, negative test results	OECD 474 (EU B.12)
Alcohols, C10-12, ethoxylated propoxylated	No data available		No data available	
ammonia	No evidence for mutagenicity		No evidence for mutagenicity	

Carcinogenicity

Caromogericity	
Ingredient(s)	Effect
2-aminoethanol	No evidence for carcinogenicity, weight-of-evidence
2-butoxyethanol	No evidence for carcinogenicity, negative test results
sodium xylene sulphonate	No evidence for carcinogenicity, negative test results
Alcohols, C10-12, ethoxylated propoxylated	No data available
ammonia	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
2-aminoethanol	NOAEL	Developmental toxicity	> 75	Rabbit	OECD 414 (EU B.31), oral	6 - 15 day(s)	No evidence for developmenta toxicity No evidence for reproductive toxicity
2-butoxyethanol			No data available				
sodium xylene sulphonate	NOAEL	Teratogenic effects	> 936	Rat	Non guideline test		
Alcohols, C10-12, ethoxylated propoxylated			No data available				
ammonia			No data available				No evidence for reproductive toxicity

Repeated dose toxicity
Sub-acute or sub-chronic oral toxicity

Sub-acute of Sub-criticitic oral toxicity						
Ingredient(s)	Endpoint	Value	Species	Method	Exposure	Specific effects and organs
		(mg/kg bw/d)			time (days)	affected
2-aminoethanol	NOAEL	300	Rat		75	

2-butoxyethanol		No data available				
sodium xylene sulphonate	NOAEL	763 - 3534	Rat	OECD 408 (EU B.26)	90	
Alcohols, C10-12, ethoxylated propoxylated		No data available				
ammonia	NOAEL	68		Method not given		

Sub-chronic dermal toxicity

Ingredient(s)	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure time (days)	Specific effects and organs affected
2-aminoethanol		No data				
		available				
2-butoxyethanol		No data				
		available				
sodium xylene sulphonate	NOAEL	> 440		OECD 411 (EU	90	
				B.28)		
Alcohols, C10-12, ethoxylated propoxylated		No data				
		available				
ammonia		No data				
		available				

Sub-chronic inhalation toxicity

Ingredient(s)	Endpoint	Value	Species	Method		Specific effects and organs
		(mg/kg bw/d)			time (days)	affected
2-aminoethanol		No data				
		available				
2-butoxyethanol		No data				
		available				
sodium xylene sulphonate		No data				
		available				
Alcohols, C10-12, ethoxylated propoxylated		No data				
		available				
ammonia		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
2-aminoethanol			No data available					
2-butoxyethanol			No data available					
sodium xylene sulphonate	Oral		No data available	Rat	OECD 453 (EU B.33)	24 month(s)	No adverse effects observed	
Alcohols, C10-12, ethoxylated propoxylated			No data available					
ammonia			No data available					

STOT-single exposure

o 10 1-3ingle exposure	
Ingredient(s)	Affected organ(s)
2-aminoethanol	Respiratory tract
2-butoxyethanol	No data available
sodium xylene sulphonate	No data available
Alcohols, C10-12, ethoxylated propoxylated	No data available
ammonia	No data available

STOT-repeated exposure

The repeated expenses	
Ingredient(s)	Affected organ(s)
2-aminoethanol	No data available
2-butoxyethanol	No data available
sodium xylene sulphonate	No data available
Alcohols, C10-12, ethoxylated propoxylated	No data available
ammonia	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

short-term	

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
2-aminoethanol	LC 50	349	Cyprinus carpio	OECD 203 (EU C.1)	96
2-butoxyethanol	LC 50	> 100	Oncorhynchus mykiss	OECD 203, static	96
sodium xylene sulphonate	LC 50	> 1000	Fish	EPA-OPPTS 850.1075	96
Alcohols, C10-12, ethoxylated propoxylated		No data available			
ammonia	LC 50	0.56 - 2.48	Fish	Method not given	96

Aquatic short-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
2-aminoethanol	EC 50	65	Daphnia magna Straus	OECD 202, static	48
2-butoxyethanol	EC 50	> 100	Daphnia magna Straus	OECD 202, static	48
sodium xylene sulphonate	EC 50	> 1000	Daphnia	EPA-OPPTS 850.1010	48
Alcohols, C10-12, ethoxylated propoxylated		No data available			
ammonia	EC 50	1.1 - 22.8	Daphnia magna Straus	Method not given	-

Aquatic short-term toxicity - algae

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
2-aminoethanol	EC 50	2.8	Pseudokirchner iella subcapitata	OECD 201 (EU C.3)	72
2-butoxyethanol	EC 50	> 100	Pseudokirchner iella subcapitata	OECD 201, static	72
sodium xylene sulphonate	EC 50	> 230	Not specified	EPA OPPTS 850.5400	96
Alcohols, C10-12, ethoxylated propoxylated		No data available			
ammonia		No data available			-

Aquatic short-term toxicity - marine species

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (days)
2-aminoethanol		No data available			-
2-butoxyethanol		No data available			-
sodium xylene sulphonate		No data available			-
Alcohols, C10-12, ethoxylated propoxylated		No data available			
ammonia		No data available			-

Impact on sewage plants - toxicity to bacteria

Ingredient(s)	Endpoint	Value (mg/l)	Inoculum	Method	Exposure time
2-aminoethanol	EC 50	> 1000	Activated sludge	DIN EN ISO 8192-OECD 209-88/302/EEC	3 hour(s)
2-butoxyethanol	EC o	700	Pseudomonas putida	Method not given	16 hour(s)
sodium xylene sulphonate	Er C 50	> 1000	Activated sludge	OECD 209	3 hour(s)
Alcohols, C10-12, ethoxylated propoxylated		No data available			
ammonia		No data available			

Aquatic long-term toxicity
Aquatic long-term toxicity - fish

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
2-aminoethanol	NOEC	1.2	Oryzias latipes	OECD 210	30 day(s)	
2-butoxyethanol	NOEC	> 100	Danio rerio	OECD 204	21 day(s)	

sodium xylene sulphonate	No data		
	available		
Alcohols, C10-12, ethoxylated propoxylated	No data		
	available		
ammonia	No data		
	available		

Aquatic long-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
2-aminoethanol	NOEC	0.85	Daphnia magna	OECD 202	21 day(s)	
2-butoxyethanol	NOEC	100	Daphnia magna	OECD 211	21 day(s)	
sodium xylene sulphonate		No data available				
Alcohols, C10-12, ethoxylated propoxylated		No data available				
ammonia		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
2-aminoethanol		No data available			-	
2-butoxyethanol		No data available			-	
sodium xylene sulphonate		No data available			-	
Alcohols, C10-12, ethoxylated propoxylated		No data available				
ammonia		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
2-aminoethanol		No data available			-	
2-butoxyethanol		No data available			-	
sodium xylene sulphonate		No data available			-	
ammonia		No data available			-	

Terrestrial toxicity - plants, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
2-aminoethanol		No data available			-	
2-butoxyethanol		No data available			-	
sodium xylene sulphonate		No data available			-	
ammonia		No data available			-	

Terrestrial toxicity - birds, if available:

Ingredient(s)	Endpoint	Value	Species	Method	Exposure time (days)	Effects observed
2-aminoethanol		No data available			-	
2-butoxyethanol		No data available			-	
sodium xylene sulphonate		No data available			-	
ammonia		No data			-	

Terrestrial toxicity - beneficial insects, if available:

Terrestrial toxicity - beneficial insects, if available.						
Ingredient(s)	Endpoint	Value	Species	Method	Exposure	Effects observed
•		(mg/kg dw	·		time (days)	
		soil)				
2-aminoethanol		No data			-	

	available		
2-butoxyethanol	No data	-	
	available		
sodium xylene sulphonate	No data	-	
	available		
ammonia	No data	-	
	available		

Terrestrial toxicity - soil bacteria, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
2-aminoethanol		No data			-	
		available				
2-butoxyethanol		No data			-	
		available				
sodium xylene sulphonate		No data			-	
		available				
ammonia		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

Ready biodegradability - aerobic conditions

Ingredient(s)	Inoculum	Analytical method	DT 50	Method	Evaluation
2-aminoethanol		DOC reduction	> 90 % in 21 day(s)	OECD 301A	Readily biodegradable
2-butoxyethanol		CO ₂ production	90.4 % in 28 day(s)	OECD 301B	Readily biodegradable
sodium xylene sulphonate			99.8 % in 28 day(s)	OECD 301F	Readily biodegradable
Alcohols, C10-12, ethoxylated propoxylated					No data available
ammonia					Not applicable (inorganic substance)

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
2-aminoethanol	- 1.91	OECD 107	No bioaccumulation expected	
2-butoxyethanol	0.81	OECD 107	Low potential for bioaccumulation	
sodium xylene sulphonate	-3.12	Method not given	No bioaccumulation expected	
Alcohols, C10-12, ethoxylated propoxylated	No data available			
ammonia	0.23	Method not given	No bioaccumulation expected	

Bioconcentration factor (BCF)

Ingredient(s)	Value	Species	Method	Evaluation	Remark
2-aminoethanol	No data available				
2-butoxyethanol	No data available				
sodium xylene sulphonate	No data available				
Alcohols, C10-12, ethoxylated propoxylated	No data available				
ammonia	No data available				

12.4 Mobility in soil

Ingredient(s)	Adsorption coefficient Log Koc	Desorption coefficient Log Koc(des)	Method	Soil/sediment type	Evaluation
2-aminoethanol	0.067		Model calculation		Potential for mobility in soil, soluble in water Adsorption to solid soil phase is not expected
2-butoxyethanol	No data available				Potential for mobility in soil,

			soluble in water
sodium xylene sulphonate	No data available		
Alcohols, C10-12, ethoxylated propoxylated	No data available		
ammonia	No data available		Low mobillity in soil

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

Land transport, Sea transport (IMDG), Air transport (ICAO-TI / IATA-DGR)

14.1 UN 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 goods14.6 Special precautions for user: Non-dangerous goods

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code: Non-dangerous goods

Other relevant information: Hazchem code: None allocated

SECTION 15: Regulatory information

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

HSNO Approval Number HSR002530.

Group standard
Inventory Listing(s)

Cleaning Products (Subsidiary Hazard) Group Standard 2017
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

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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