

Safety Data Sheet

CLAX REVOFLOW PRO 35X1

Revision: 2018-05-08 **Version:** 01.0

SECTION 1: Identification of the substance/mixture and supplier

1.1 Product identifier

Product name: CLAX REVOFLOW PRO 35X1

1.2 Recommended use and restrictions on use

Identified uses: Laundry detergent 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

6.1E - Acutely toxic (oral)

6.1E - Acutely toxic (inhalation)

6.3A - Irritating to the skin

6.4A - Irritating to the eye

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

GHS Equivalent Classification

Acute toxicity, oral, Category 5 Acute toxicity, inhalation, Category 5 Skin irritation, Category 2 Serious eye irritation, Category 2 Acute aquatic toxicity, Category 2

2.2 Label elements



Signal word: Warning

Hazard statements:

H315 + H319 - Causes skin and serious eye irritation.

H333 - May be harmful if inhaled. H303 - May be harmful if swallowed.

H401 - Toxic to aquatic life.

Prevention statement(s):

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

P280 - Wear protective gloves.

Response statement(s):

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

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

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

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 (%): .35

HSNO Classification

Not classified as hazardous

GHS Equivalent Classification

Not classified as hazardous

SECTION 3: Composition/information on ingredients

3.1 Substances / Mixtures

Ingredient(s)	CAS number	EC number	Weight
			percent
pentasodium triphosphate	7758-29-4	231-838-7	30-60
sodium carbonate	497-19-8	207-838-8	10-30
sodium percarbonate	15630-89-4	239-707-6	3-10
alkyl alcohol ethoxylate	64425-86-1	Polymer*	3-10
sodium carboxymethyl cellulose	9004-32-4	Polymer*	1-3
subtilisin	9014-01-1	232-752-2	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: 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. If eye irritation persists: Get medical

advice or attention. If irritation occurs and persists, get medical attention.

Ingestion: Rinse mouth. Immediately drink 1 glass of water. Never give anything by mouth to an unconscious

person. Get medical attention or advice if you feel unwell.

Self-protection of first aider:Consider personal protective equipment as indicated in subsection 8.2. **First aid facilities:**Eyewash facilities should be considered in a workplace where necessary.

4.2 Most important symptoms and effects, both acute and delayed

Inhalation: No known effects or symptoms in normal use.

Skin contact: Causes irritation.

Eye contact: Causes severe irritation.

Ingestion: No known effects or symptoms in normal use.

4.3 Indication of any immediate medical attention and special treatment needed

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

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

SECTION 5: Firefighting measures

5.1 Extinguishing media

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

5.2 Special hazards arising from the substance or mixture

No special hazards known.

5.3 Advice for firefighters

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

5.4 Hazchem code

None allocated

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear suitable gloves.

6.2 Environmental precautions

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

Collect mechanically.

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. 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)
ĺ	subtilisin			0.00006 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 <u>undiluted</u> 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: Hand protection: No special requirements under normal use conditions.

Chemical-resistant protective gloves (EN 374). Verify instructions regarding permeability and breakthrough time, as provided by the gloves supplier. Consider specific local use conditions, such

as risk of splashes, cuts, contact time and temperature.

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

thickness: ≥ 0.7 mm

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

Material thickness: ≥ 0.4 mm

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

be chosen.

No special requirements under normal use conditions. **Body protection:** 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 (%): .35

Appropriate engineering controls: No special requirements under normal use conditions. Appropriate organisational controls: No special requirements under normal use conditions.

Personal protective equipment

No special requirements under normal use conditions. Eye / face 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

ISO 4316

Physical State: Solid Appearance: Powder Colour: Specks White

Odour: Powder Slightly perfumed Odour threshold: Not applicable pH: Not applicable. (neat) **Dilution pH**: ≈ 10 (1%)

Melting point/freezing point (°C): Not determined Not relevant to classification of this product

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

Flash point (°C): Not applicable.

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

Flammability (solid, gas): Not determined

Upper/lower flammability limit (%): Not determined

Vapour pressure: Not determined

Vapour density: Not determined

Relative density: ≈ 0.96 (20 °C)

Solubility in / Miscibility with Water: Soluble

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

Not applicable to solids or gases

OECD 109 (EU A.3)

Not applicable to solids or gases

Not relevant to classification of this product

Not relevant to classification of this product

Corrosion to metals: Not determined Not applicable to solids or gases

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): 2300 ATE - Inhalatory, mists (mg/l): 11

Eye irritation and corrosivity

Result: Eye irritant 2 Method: Weight of evidence

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

Acute toxicity

Acute oral toxicity

Ingredient(s)	Endpoint	Value (mg/kg)	Species	Method	Exposure time (h)
pentasodium triphosphate	LD₀	> 2000	Rat	OECD 401 (EU B.1)	
sodium carbonate	LD 50	2800	Rat	Method not given	
sodium percarbonate	LD 50	1034	Rat	Method not given	
alkyl alcohol ethoxylate		No data available			
sodium carboxymethyl cellulose	LD 50	> 2500	Rat	Method not given	
subtilisin	LD 50	1800	Rat	OECD 401 (EU B.1)	

Acute dermal toxicity

Ingredient(s)	Endpoint	Value (mg/kg)	Species	Method	Exposure time (h)
pentasodium triphosphate	LD 50	> 4640	Rabbit	Method not given	
sodium carbonate	LD 50	> 2000	Rabbit	Method not given	
sodium percarbonate	LD 50	> 2000	Rabbit	OECD 402 (EU B.3)	
alkyl alcohol ethoxylate		No data available			
sodium carboxymethyl cellulose	LD 50	> 2000	Rabbit	Method not given	
subtilisin		No data available			

Acute inhalative toxicity

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
pentasodium triphosphate	LC ₀	0.39 (dust)	Rat	EPA OPP 81-3	4
sodium carbonate	LC 50	2.3 (dust)	Rat	OECD 403 (EU B.2)	2
sodium percarbonate		No data available			
alkyl alcohol ethoxylate		No data available			
sodium carboxymethyl cellulose	LC 50	> 5800	Rat	Method not given	
subtilisin		=		Weight of evidence	

Irritation and corrosivity Skin irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
pentasodium triphosphate	Not irritant	Rabbit	OECD 404 (EU B.4)	
sodium carbonate	Not irritant	Rabbit	Method not given	
sodium percarbonate	Not irritant	Rabbit	Method not given	
alkyl alcohol ethoxylate	No data available			
sodium carboxymethyl cellulose	Not irritant	Rabbit	Method not given	
subtilisin	Mild irritant	Rabbit	OECD 404 (EU B.4)	

Eye irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time

pentasodium triphosphate	Not corrosive or irritant	Rabbit	OECD 405 (EU B.5)	
sodium carbonate	Irritant	Rabbit	Method not given	
sodium percarbonate	Severe damage	Rabbit	EPA OPP 81-4	
alkyl alcohol ethoxylate	No data available			
sodium carboxymethyl cellulose	Not corrosive or irritant	Rabbit	Method not given	
subtilisin	Irritant	Rabbit	OECD 405 (EU B.5)	

Respiratory tract irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
pentasodium triphosphate	No data available			
sodium carbonate	No data available			
sodium percarbonate	Irritating to respiratory tract	Mouse	Method not given	
alkyl alcohol ethoxylate	No data available			
sodium carboxymethyl cellulose	No data available			
subtilisin	No data available			

Sensitisation Sensitisation by skin contact

Ingredient(s)	Result	Species	Method	Exposure time (h)
pentasodium triphosphate	Not sensitising	Mouse	OECD 429 (EU B.42)	
sodium carbonate	Not sensitising		Method not given	
sodium percarbonate	Not sensitising	Guinea pig	OECD 406 (EU B.6) / Buehler test	
alkyl alcohol ethoxylate	No data available			
sodium carboxymethyl cellulose	No data available			
subtilisin	No data available			

Sensitisation by inhalation

Ingredient(s)	Result	Species	Method	Exposure time
pentasodium triphosphate	No data available			
sodium carbonate	No data available			
sodium percarbonate	No data available			
alkyl alcohol ethoxylate	No data available			
sodium carboxymethyl cellulose	No data available			
subtilisin	Sensitising		Weight of evidence	

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

Ingredient(s)	Result (in-vitro)	Method (in-vitro)	Result (in-vivo)	Method (in-vivo)
pentasodium triphosphate	No evidence for mutagenicity, negative test results		No evidence of genotoxicity, negative test results	OECD 475 (EU B.11)
sodium carbonate	No data available		No data available	
sodium percarbonate	No data available		No data available	
alkyl alcohol ethoxylate	No data available		No data available	
sodium carboxymethyl cellulose	No data available		No data available	
subtilisin		OECD 471 (EU B.12/13) OECD 473 OECD 476 (Chinese Hamster Ovary)		

Carcinogenicity

Ingredient(s)	Effect
pentasodium triphosphate	No evidence for carcinogenicity, negative test results
sodium carbonate	No evidence for carcinogenicity, weight-of-evidence
sodium percarbonate	No data available
alkyl alcohol ethoxylate	No data available
sodium carboxymethyl cellulose	No data available
subtilisin	No data available

Toxicity for reproduction

Ingredient(s)	Endpoint	Specific effect	Value	Species	Method	Exposure	Remarks and other effects
			(mg/kg bw/d)			time	reported
pentasodium	NOAEL	Developmental toxicity	141	Rat	Not known		No evidence for reproductive
triphosphate							toxicity
sodium carbonate			No data				
			available				
sodium percarbonate			No data				

	availab	е		
alkyl alcohol ethoxylate	No dat			
	availab	е		
sodium carboxymethyl	No dat			
cellulose	availab	е		
subtilisin	No dat	1		
	availab	e		

Repeated dose toxicity

Sub-acute		

Ingredient(s)	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure time (days)	Specific effects and organs affected
pentasodium triphosphate		No data available			imo (dayo)	unotou
sodium carbonate		No data available				
sodium percarbonate		No data available				
alkyl alcohol ethoxylate		No data available				
sodium carboxymethyl cellulose		No data available				
subtilisin		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
pentasodium triphosphate		No data available				
sodium carbonate		No data available				
sodium percarbonate		No data available				
alkyl alcohol ethoxylate		No data available				
sodium carboxymethyl cellulose		No data available				
subtilisin		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
pentasodium triphosphate		No data available				
sodium carbonate		No data available				
sodium percarbonate		No data available				
alkyl alcohol ethoxylate		No data available				
sodium carboxymethyl cellulose		No data available				
subtilisin		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
pentasodium triphosphate	Oral	NOAEL	225	Rat	Equivalent of OECD 412 (EU B.8)			
sodium carbonate			No data available					
sodium percarbonate			No data available					
alkyl alcohol ethoxylate			No data available					
sodium carboxymethyl cellulose			No data available					
subtilisin			No data available					

STOT-single exposure

Ingredient(s)	Affected organ(s)
pentasodium triphosphate	No data available
sodium carbonate	No data available
sodium percarbonate	No data available
alkyl alcohol ethoxylate	No data available

sodium carboxymethyl cellulose	No data available
subtilisin	Respiratory tract

STOT-repeated exposure

Ingredient(s)	Affected organ(s)
pentasodium triphosphate	No data available
sodium carbonate	No data available
sodium percarbonate	No data available
alkyl alcohol ethoxylate	No data available
sodium carboxymethyl cellulose	No data available
subtilisin	No data available

Aspiration hazard

Substances with an aspiration hazard (H304), if any, are listed in section 3. If relevant, see section 9 for dynamic viscosity and relative density of the product.

Potential adverse health effects and symptoms

Effects and symptoms related to the product, if any, are listed in subsection 4.2.

SECTION 12: Ecological information

12.1 Toxicity

No data is available on the mixture.

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

Aquatic short-term toxicity

Aquatic short-term toxicity - fish

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
pentasodium triphosphate	LC 50	1850	Brachydanio rerio	Method not given	24
sodium carbonate	LC 50	300	Lepomis macrochirus	Method not given	96
sodium percarbonate	LC 50	70.7	Pimephales promelas	Method not given	96
alkyl alcohol ethoxylate		No data available			
sodium carboxymethyl cellulose	LC 50	> 100	Lepomis macrochirus Oncorhynchus mykiss	Method not given	96
subtilisin	LC 50	8.2	Fish	OECD 203 (EU C.1)	96

Aquatic short-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
pentasodium triphosphate	EC 50	> 100	Daphnia magna Straus	40 CFR 797.1930	48
sodium carbonate	EC 50	265	Daphnia magna Straus	Method not given	96
sodium percarbonate	EC 50	4.9	Daphnia pulex	Method not given	48
alkyl alcohol ethoxylate		No data available			
sodium carboxymethyl cellulose		No data available			-
subtilisin	EC 50	0.586	Daphnia	OECD 202 (EU C.2)	48

Aquatic short-term toxicity - algae

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
pentasodium triphosphate	EC 50	160	Desmodesmus subspicatus	ISO/TC147/SC5/WG5 N84	96
sodium carbonate		No data available			-
sodium percarbonate		No data available			-
alkyl alcohol ethoxylate		No data available			
sodium carboxymethyl cellulose		No data available			-
subtilisin	Er C 50	0.830	Not specified	OECD 201 (EU C.3)	72

Aquatic short-term toxicity - marine species

Ingredient(s)

Endpoint
Value
(mg/l)

Exposure
time (days)

pentasodium triphosphate	No data - available
sodium carbonate	No data - available
sodium percarbonate	No data - available
alkyl alcohol ethoxylate	No data available
sodium carboxymethyl cellulose	No data - available
subtilisin	No data - available

Impact on sewage plants - toxicity to bacteria

Ingredient(s)	Endpoint	Value (mg/l)	Inoculum	Method	Exposure time
pentasodium triphosphate		No data available			
sodium carbonate		No data available			
sodium percarbonate	EC 50	466	Activated sludge	OECD 209	0.5 hour(s)
alkyl alcohol ethoxylate		No data available			
sodium carboxymethyl cellulose		No data available			
subtilisin		No data available			

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

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
pentasodium triphosphate	LOEC	5		OECD 212	96 hour(s)	
sodium carbonate		No data available				
sodium percarbonate	NOEC	7.4	Pimephales promelas	Method not given	96 hour(s)	
alkyl alcohol ethoxylate		No data available				
sodium carboxymethyl cellulose		No data available				
subtilisin		No data available				

Aquatic long-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
pentasodium triphosphate		No data available				
sodium carbonate		No data available				
sodium percarbonate	NOEC	2	Daphnia pulex	Method not given	48 hour(s)	
alkyl alcohol ethoxylate		No data available				
sodium carboxymethyl cellulose		No data available				
subtilisin		No data available				

Ingredient(s)	Endpoint	Value (mg/kg dw sediment)	Species	Method	Exposure time (days)	Effects observed
pentasodium triphosphate		No data available			-	
sodium carbonate		No data available			-	
sodium percarbonate		No data available			-	
alkyl alcohol ethoxylate		No data available				
sodium carboxymethyl cellulose		No data available			-	
subtilisin		No data			- 1	

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

Ingredient(s)	Endpoint	Value	Species	Method	Exposure	Effects observed	

	(mg/kg dw	time (days)	
	soil)		
pentasodium triphosphate	No data	-	
	available		
sodium carbonate	No data	-	
	available		
sodium percarbonate	No data	-	
	available		
sodium carboxymethyl cellulose	No data	-	
	available		
subtilisin	No data	-	
	available		

Terrestrial toxicity - plants, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
pentasodium triphosphate		No data available			-	
sodium carbonate		No data available			-	
sodium percarbonate		No data available			-	
sodium carboxymethyl cellulose		No data available			-	
subtilisin		No data available			-	

Terrestrial toxicity - birds. if available:

Ingredient(s)	Endpoint	Value	Species	Method	Exposure time (days)	Effects observed
pentasodium triphosphate		No data available			-	
sodium carbonate		No data available			-	
sodium percarbonate		No data available			-	
sodium carboxymethyl cellulose		No data available			-	
subtilisin		No data available			-	

Terrestrial toxicity - beneficial insects, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
pentasodium triphosphate		No data available			-	
sodium carbonate		No data available			-	
sodium percarbonate		No data available			-	
sodium carboxymethyl cellulose		No data available			-	
subtilisin		No data available			-	

errestrial toxicity - soil bacteria, if available:	1				T T	
Ingredient(s)	Endpoint	Value	Species	Method	Exposure	Effects observed
		(mg/kg dw			time (days)	
		soil)				
pentasodium triphosphate		No data			-	
		available				
sodium carbonate		No data			-	
		available				
sodium percarbonate		No data			-	
		available				
sodium carboxymethyl cellulose		No data			-	
		available				
subtilisin		No data			-	
		available				

12.2 Persistence and degradability

Abiotic degradation
Abiotic degradation - photodegradation in air, if available:

Abiotic degradation - priotodegradation in all, it available.								
Ingredient(s)	Half-life time	Method	Evaluation	Remark				
sodium percarbonate	NA	Method not given						

Abiotic degradation - hydrolysis, if available:

Ingredient(s)	Half-life time in fresh	Method	Evaluation	Remark
	water			

sodium carbonate	No data available		Rapidly hydrolysible	
sodium percarbonate	< 1 day(s)	Method not given	Hydrolysible	

Abiotic degradation - other processes, if available:

Biodegradation

Ready biodegradability - aerobic conditions

Ingredient(s)	Inoculum	Analytical method	DT 50	Method	Evaluation
pentasodium triphosphate					Not applicable (inorganic substance)
sodium carbonate					Not applicable (inorganic substance)
sodium percarbonate					Not applicable (inorganic substance)
alkyl alcohol ethoxylate				OECD 301B	Readily biodegradable
sodium carboxymethyl cellulose				Method not given	Not readily biodegradable.
subtilisin				OECD 301B	Readily biodegradable

Ready biodegradability - anaerobic and marine conditions, if available:

Degradation in relevant environmental compartments, if available:

12.3 Bioaccumulative potential

ı	Ingredient(s)	Value	Method	Evaluation	Remark
ľ	pentasodium triphosphate	No data available			
ſ	sodium carbonate	No data available		No bioaccumulation expected	
ſ	sodium percarbonate	No data available			
ſ	alkyl alcohol ethoxylate	No data available			
ſ	sodium carboxymethyl cellulose	No data available			
Ī	subtilisin	< 0			

Bioconcentration factor (BCF)

Ingredient(s)	Value	Species	Method	Evaluation	Remark
pentasodium triphosphate	No data available				
sodium carbonate	No data available			No bioaccumulation expected	
sodium percarbonate	No data available				
alkyl alcohol ethoxylate	No data available				
sodium carboxymethyl cellulose	No data available				
subtilisin	-			Not relevant, does not bioaccumulate	

12.4 Mobility in soil

Ingredient(s)	Adsorption coefficient Log Koc	Desorption coefficient Log Koc(des)	Method	Soil/sediment type	Evaluation
pentasodium triphosphate	No data available				
sodium carbonate	No data available				Potential for mobility in soil, soluble in water
sodium percarbonate	No data available				High potential for mobility in soil
alkyl alcohol ethoxylate	No data available				
sodium carboxymethyl cellulose	No data available				
subtilisin	No data available				

12.5 Other adverse effects

No other adverse effects known.

SECTION 13: Disposal considerations

13.1 Waste treatment methods Waste from residues / unused products:

The concentrated contents or contaminated packaging should be disposed of by a certified handler or according to the site permit. Release of waste to sewers is discouraged. The cleaned packaging

material is suitable for energy recovery or recycling in line with local legislation.

Empty packaging

Recommendation: Dispose of observing national or local regulations.

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 goods 14.6 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.

Cleaning Products (Subsidiary Hazard) Group Standard 2017 **Group standard** Inventory Listing(s) New Zealand: NZIoC (New Zealand Inventory of Chemicals) All components are listed on the NZIoC inventory, or are exempt

SECTION 16: Other information

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

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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