



CLAX REVOFLOW OXI 43X3

Revision: 2018-05-08

Version: 01.0

SECTION 1: Identification of the substance/mixture and supplier

1.1 Product identifier

Product name: CLAX REVOFLOW OXI 43X3

1.2 Recommended use and restrictions on use

Identified uses:

Oxygen bleach

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

6.1D - Acutely toxic (inhalation)

6.1E - Acutely toxic (oral)

6.1E - Acutely toxic (inhalation)

6.3A - Irritating to the skin

6.4A - Irritating to the eye

6.6A - Known or presumed human mutagens

6.8A - Known or presumed human reproductive or developmental toxicants

6.9B - Harmful to human target organs or systems (inhalation)

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

GHS Equivalent Classification

Acute toxicity, inhalation, Category 4

Specific target organ toxicity (single exposure), Category 3

Acute toxicity, oral, Category 5

Skin irritation, Category 2

Serious eye irritation, Category 2

Germ cell mutagenicity, Category 1B

Reproductive toxicity, Category 1B

Specific target organ toxicity (repeated exposure), Category 2

Acute aquatic toxicity, Category 3

2.2 Label elements



Signal word: Danger

Hazard statements:

H315 + H319 - Causes skin and serious eye irritation.

H340 - May cause genetic defects.

H360 - May damage fertility or the unborn child.

H303 - May be harmful if swallowed.

H332 - Harmful if inhaled.

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H335 - May cause respiratory irritation.
 H373 - May cause damage to organs through prolonged or repeated exposure.
 H402 - Harmful to aquatic life.

Prevention statement(s):

P201 - Obtain special instructions before use.
 P202 - Do not handle until all safety precautions have been read and understood.
 P233 - Keep container tightly closed.
 P261 - Avoid breathing vapours.
 P264 - Wash face, hands and any exposed skin thoroughly after handling.
 P271 - Use only outdoors or in a well-ventilated area.
 P280 - Wear protective gloves, protective clothing and eye or face protection.
 P281 - Use personal protection equipment as required.

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.
 P337 + P313 - If eye irritation persists: Get medical advice or attention.
 P308 + P313 - IF exposed or concerned: Get medical advice or attention.
 P312 - Call a POISON CENTRE, doctor or physician if you feel unwell.
 P321 - Specific treatment (see supplemental first aid instructions on this label).
 P362 - Take off contaminated clothing.

Storage statement(s):

P403 + P233 - Store in a well-ventilated place. Keep container tightly closed.
 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:

Recommended maximum concentration (%): 1

HSNO Classification

6.6A - Known or presumed human mutagens

GHS Equivalent Classification

Germ cell mutagenicity, Category 1B

2.5 Label elements diluted product

Dilution Signal word: Danger.

H340 - May cause genetic defects.

P201 - Obtain special instructions before use.
 P202 - Do not handle until all safety precautions have been read and understood.
 P280 - Wear protective gloves, protective clothing and eye or face protection.
 P281 - Use personal protection equipment as required.
 P308 + P313 - IF exposed or concerned: Get medical advice or attention.
 P405 - Store locked up.
 P501 - Dispose of unused content as chemical waste.

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

Ingredient(s)	CAS number	EC number	Weight percent
sodium carbonate	497-19-8	207-838-8	10-30

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perboric acid (HBO(O ₂)), sodium salt, monohydrate	10332-33-9	231-556-4	10-30
sodium percarbonate	15630-89-4	239-707-6	3-10
sodium carboxymethyl cellulose	9004-32-4	Polymer*	1-3
alkyl alcohol ethoxylate	64425-86-1	Polymer*	1-3

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

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

SECTION 4: First aid measures

4.1 Description of first aid measures

General Information:

Symptoms of intoxication may even occur after several hours. It is recommended to continue medical observation for at least 48 hours after the incident. If unconscious place in recovery position and seek medical advice. Provide fresh air. If breathing is irregular or stopped, administer artificial respiration. No mouth-to-mouth or mouth-to-nose resuscitation. Use Ambu bag or ventilator. IF exposed or concerned: Get medical advice or attention.

Inhalation:

Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTRE, doctor or physician. Call a POISON CENTRE, doctor or physician if you feel unwell.

Skin contact:

Wash skin with plenty of lukewarm, gently flowing water. If skin irritation or rash occurs: Get medical advice or attention. 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:

May cause respiratory irritation. May damage fertility or the unborn child.

Skin contact:

Causes irritation. May damage fertility or the unborn child.

Eye contact:

Causes severe irritation.

Ingestion:

May damage fertility or the unborn child.

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

Ensure adequate ventilation. Do not breathe dust or vapour. Wear suitable protective clothing, gloves and eye/face protection.

6.2 Environmental precautions

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

6.3 Methods and material for containment and cleaning up

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

6.4 Reference to other sections

For personal protective equipment see subsection 8.2. For disposal considerations see section 13.

SECTION 7: Handling and storage

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7.1 Precautions for safe handling**Measures to prevent fire and explosions:**

No special precautions required.

Measures required to protect the environment:

For environmental exposure controls see subsection 8.2.

Advices on general occupational hygiene:

Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs. Do not mix with other products unless advised by Diversey. Wash 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. Store used personal protective equipment separately. Use personal protective equipment as required. Obtain special instructions before use. Avoid contact with eyes. Do not breathe vapours. Use only with adequate ventilation. See chapter 8.2, Exposure controls / Personal protection.

7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local and national regulations. Store in a well-ventilated place. Store in a closed container. Keep only in original packaging.

For conditions to avoid see subsection 10.4. For incompatible materials see subsection 10.5.

7.3 Specific end use(s)

No specific advice for end use available.

SECTION 8: Exposure controls/personal protection**8.1 Control parameters****Workplace exposure limits**

Air limit values, if available:

Biological limit values, if available:

8.2 Exposure controls

The following information applies for the uses indicated in subsection 1.2 of the Safety Data Sheet. If available, please refer to the product information sheet for application and handling instructions. Normal use conditions are assumed for this section.

Recommended safety measures for handling the undiluted product:

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

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

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

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

Safety glasses or goggles (EN 166).

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

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

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

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

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

Respiratory protection: Respiratory protection is not normally required. However, inhalation of vapour, spray, gas or aerosols should be avoided.

Environmental exposure controls: No special requirements under normal use conditions.

Recommended safety measures for handling the diluted product:

Recommended maximum concentration (%): 1

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

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

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

Safety glasses or goggles (EN 166).

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.

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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.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

	Method / remark
Physical State: Solid	
Appearance: Powder	
Colour: White	
Odour: To Match Standard (TMS)	
Odour threshold: Not applicable	
pH: Not applicable.	
Dilution pH: ≈ 10 (10%)	ISO 4316
Melting point/freezing point (°C): Not determined	Not relevant to classification of this product
Initial boiling point and boiling range (°C): Not determined	
Flash point (°C): Not applicable.	
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	
Upper/lower flammability limit (%): Not determined	
Vapour pressure: Not determined	
Vapour density: Not determined	Not relevant to classification of this product
Relative density: ≈ 0.9 (20 °C)	OECD 109 (EU A.3)
Solubility in / Miscibility with Water: Fully miscible	
Partition coefficient: n-octanol/water No information available. Substance data, partition coefficient n-octanol/water (log Kow): see subsection 12.3	
Autoignition temperature: Not determined	
Decomposition temperature: Not applicable.	
Viscosity: 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	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

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 effects

Mixture data:

Relevant calculated ATE(s):

ATE - Oral (mg/kg): 1900

ATE - Dermal (mg/kg): >5000

ATE - Inhalatory, mists (mg/l): 1.8

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)
sodium carbonate	LD ₅₀	2800	Rat	Method not given	
perboric acid (HBO(O ₂)), sodium salt, monohydrate		No data available			
sodium percarbonate	LD ₅₀	1034	Rat	Method not given	
sodium carboxymethyl cellulose	LD ₅₀	> 2500	Rat	Method not given	
alkyl alcohol ethoxylate		No data available			

Acute dermal toxicity

Ingredient(s)	Endpoint	Value (mg/kg)	Species	Method	Exposure time (h)
sodium carbonate	LD ₅₀	> 2000	Rabbit	Method not given	
perboric acid (HBO(O ₂)), sodium salt, monohydrate		No data available			
sodium percarbonate	LD ₅₀	> 2000	Rabbit	OECD 402 (EU B.3)	
sodium carboxymethyl cellulose	LD ₅₀	> 2000	Rabbit	Method not given	
alkyl alcohol ethoxylate		No data available			

Acute inhalative toxicity

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
sodium carbonate	LC ₅₀	2.3 (dust)	Rat	OECD 403 (EU B.2)	2
perboric acid (HBO(O ₂)), sodium salt, monohydrate		No data available			
sodium percarbonate		No data available			
sodium carboxymethyl cellulose	LC ₅₀	> 5800	Rat	Method not given	
alkyl alcohol ethoxylate		No data available			

Irritation and corrosivity

Skin irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
sodium carbonate	Not irritant	Rabbit	Method not given	
perboric acid (HBO(O ₂)), sodium salt, monohydrate	No data available			
sodium percarbonate	Not irritant	Rabbit	Method not given	
sodium carboxymethyl cellulose	Not irritant	Rabbit	Method not given	
alkyl alcohol ethoxylate	No data available			

Eye irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
sodium carbonate	Irritant	Rabbit	Method not given	
perboric acid (HBO(O ₂)), sodium salt, monohydrate	No data available			
sodium percarbonate	Severe damage	Rabbit	EPA OPP 81-4	
sodium carboxymethyl cellulose	Not corrosive or irritant	Rabbit	Method not given	
alkyl alcohol ethoxylate	No data available			

Respiratory tract irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
sodium carbonate	No data available			
perboric acid (HBO(O ₂)), sodium salt, monohydrate	No data available			
sodium percarbonate	Irritating to respiratory tract	Mouse	Method not given	
sodium carboxymethyl cellulose	No data available			
alkyl alcohol ethoxylate	No data available			

Sensitisation

Sensitisation by skin contact

Ingredient(s)	Result	Species	Method	Exposure time (h)
sodium carbonate	Not sensitising		Method not given	
perboric acid (HBO(O ₂)), sodium salt, monohydrate	No data available			
sodium percarbonate	Not sensitising	Guinea pig	OECD 406 (EU B.6) / Buehler test	
sodium carboxymethyl cellulose	No data available			
alkyl alcohol ethoxylate	No data available			

Sensitisation by inhalation

Ingredient(s)	Result	Species	Method	Exposure time
sodium carbonate	No data available			
perboric acid (HBO(O ₂)), sodium salt, monohydrate	No data available			
sodium percarbonate	No data available			
sodium carboxymethyl cellulose	No data available			
alkyl alcohol ethoxylate	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)
sodium carbonate	No data available		No data available	
perboric acid (HBO(O ₂)), sodium salt, monohydrate	No data available		No data available	
sodium percarbonate	No data available		No data available	
sodium carboxymethyl cellulose	No data available		No data available	
alkyl alcohol ethoxylate	No data available		No data available	

Carcinogenicity

Ingredient(s)	Effect
sodium carbonate	No evidence for carcinogenicity, weight-of-evidence
perboric acid (HBO(O ₂)), sodium salt, monohydrate	No data available
sodium percarbonate	No data available
sodium carboxymethyl cellulose	No data available
alkyl alcohol ethoxylate	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
sodium carbonate			No data available				
perboric acid (HBO(O ₂)), sodium salt, monohydrate			No data available				
sodium percarbonate			No data available				
sodium carboxymethyl cellulose			No data available				
alkyl alcohol ethoxylate			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
sodium carbonate		No data available				
perboric acid (HBO(O ₂)), sodium salt, monohydrate		No data available				
sodium percarbonate		No data available				
sodium carboxymethyl cellulose		No data available				
alkyl alcohol ethoxylate		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
sodium carbonate		No data available				
perboric acid (HBO(O ₂)), sodium salt, monohydrate		No data available				
sodium percarbonate		No data available				

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sodium carboxymethyl cellulose		No data available				
alkyl alcohol ethoxylate		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
sodium carbonate		No data available				
perboric acid (HBO(O ₂)), sodium salt, monohydrate		No data available				
sodium percarbonate		No data available				
sodium carboxymethyl cellulose		No data available				
alkyl alcohol ethoxylate		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
sodium carbonate			No data available					
perboric acid (HBO(O ₂)), sodium salt, monohydrate			No data available					
sodium percarbonate			No data available					
sodium carboxymethyl cellulose			No data available					
alkyl alcohol ethoxylate			No data available					

STOT-single exposure

Ingredient(s)	Affected organ(s)
sodium carbonate	No data available
perboric acid (HBO(O ₂)), sodium salt, monohydrate	No data available
sodium percarbonate	No data available
sodium carboxymethyl cellulose	No data available
alkyl alcohol ethoxylate	No data available

STOT-repeated exposure

Ingredient(s)	Affected organ(s)
sodium carbonate	No data available
perboric acid (HBO(O ₂)), sodium salt, monohydrate	No data available
sodium percarbonate	No data available
sodium carboxymethyl cellulose	No data available
alkyl alcohol ethoxylate	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)
sodium carbonate	LC ₅₀	300	<i>Lepomis macrochirus</i>	Method not given	96
perboric acid (HBO(O ₂)), sodium salt, monohydrate		No data available			
sodium percarbonate	LC ₅₀	70.7	<i>Pimephales promelas</i>	Method not given	96
sodium carboxymethyl cellulose	LC ₅₀	> 100	<i>Lepomis macrochirus</i>	Method not given	96

			<i>Oncorhynchus mykiss</i>		
alkyl alcohol ethoxylate		No data available			

Aquatic short-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
sodium carbonate	EC ₅₀	265	<i>Daphnia magna</i> Straus	Method not given	96
perboric acid (HBO(O ₂)), sodium salt, monohydrate		No data available			
sodium percarbonate	EC ₅₀	4.9	<i>Daphnia pulex</i>	Method not given	48
sodium carboxymethyl cellulose		No data available			-
alkyl alcohol ethoxylate		No data available			

Aquatic short-term toxicity - algae

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
sodium carbonate		No data available			-
perboric acid (HBO(O ₂)), sodium salt, monohydrate		No data available			
sodium percarbonate		No data available			-
sodium carboxymethyl cellulose		No data available			-
alkyl alcohol ethoxylate		No data available			

Aquatic short-term toxicity - marine species

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (days)
sodium carbonate		No data available			-
perboric acid (HBO(O ₂)), sodium salt, monohydrate		No data available			
sodium percarbonate		No data available			-
sodium carboxymethyl cellulose		No data available			-
alkyl alcohol ethoxylate		No data available			

Impact on sewage plants - toxicity to bacteria

Ingredient(s)	Endpoint	Value (mg/l)	Inoculum	Method	Exposure time
sodium carbonate		No data available			
perboric acid (HBO(O ₂)), sodium salt, monohydrate		No data available			
sodium percarbonate	EC ₅₀	466	<i>Activated sludge</i>	OECD 209	0.5 hour(s)
sodium carboxymethyl cellulose		No data available			
alkyl alcohol ethoxylate		No data available			

Aquatic long-term toxicity

Aquatic long-term toxicity - fish

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
sodium carbonate		No data available				
perboric acid (HBO(O ₂)), sodium salt, monohydrate		No data available				
sodium percarbonate	NOEC	7.4	<i>Pimephales promelas</i>	Method not given	96 hour(s)	
sodium carboxymethyl cellulose		No data available				
alkyl alcohol ethoxylate		No data available				

Aquatic long-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
sodium carbonate		No data available				
perboric acid (HBO(O ₂)), sodium salt, monohydrate		No data available				

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		available				
sodium percarbonate	NOEC	2	<i>Daphnia pulex</i>	Method not given	48 hour(s)	
sodium carboxymethyl cellulose		No data available				
alkyl alcohol ethoxylate		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
sodium carbonate		No data available			-	
perboric acid (HBO(O ₂)), sodium salt, monohydrate		No data available				
sodium percarbonate		No data available			-	
sodium carboxymethyl cellulose		No data available			-	
alkyl alcohol ethoxylate		No data available				

Terrestrial toxicity

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

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

Terrestrial toxicity - plants, if available:

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

Terrestrial toxicity - birds, if available:

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

Terrestrial toxicity - beneficial insects, if available:

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

Terrestrial toxicity - soil bacteria, if available:

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

12.2 Persistence and degradability**Abiotic degradation**

Abiotic degradation - photodegradation in air, if available:

Ingredient(s)	Half-life time	Method	Evaluation	Remark
sodium percarbonate	NA	Method not given		

Abiotic degradation - hydrolysis, if available:

Ingredient(s)	Half-life time in fresh water	Method	Evaluation	Remark
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
sodium carbonate					Not applicable (inorganic substance)
perboric acid (HBO(O ₂)), sodium salt, monohydrate					No data available
sodium percarbonate					Not applicable (inorganic substance)
sodium carboxymethyl cellulose				Method not given	Not readily biodegradable.
alkyl alcohol ethoxylate				OECD 301B	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 K_{ow})

Ingredient(s)	Value	Method	Evaluation	Remark
sodium carbonate	No data available		No bioaccumulation expected	
perboric acid (HBO(O ₂)), sodium salt, monohydrate	No data available			
sodium percarbonate	No data available			
sodium carboxymethyl cellulose	No data available			
alkyl alcohol ethoxylate	No data available			

Bioconcentration factor (BCF)

Ingredient(s)	Value	Species	Method	Evaluation	Remark
sodium carbonate	No data available			No bioaccumulation expected	
perboric acid (HBO(O ₂)), sodium salt, monohydrate	No data available				
sodium percarbonate	No data available				
sodium carboxymethyl cellulose	No data available				
alkyl alcohol ethoxylate	No data available				

12.4 Mobility in soil

Adsorption/Desorption to soil or sediment

Ingredient(s)	Adsorption coefficient Log K _{oc}	Desorption coefficient Log K _{oc} (des)	Method	Soil/sediment type	Evaluation
sodium carbonate	No data available				Potential for mobility in soil, soluble in water
perboric acid (HBO(O ₂)), sodium salt, monohydrate	No data available				
sodium percarbonate	No data available				High potential for mobility in soil
sodium carboxymethyl cellulose	No data available				
alkyl alcohol ethoxylate	No data available				

12.5 Other adverse effects

No other adverse effects known.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste from residues / unused products:

The concentrated contents or contaminated packaging should be disposed of by a certified handler or according to the site permit. Release of waste to sewers is discouraged. The cleaned packaging material is suitable for energy recovery or recycling in line with local legislation.

Empty packaging

Recommendation:

Dispose of observing national or local regulations.

Suitable cleaning agents:

Water, if necessary with cleaning agent.

SECTION 14: Transport information**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.
Group standard	Cleaning Products (Subsidiary Hazard) Group Standard 2017
Inventory Listing(s)	New Zealand: NZIoC (New Zealand Inventory of Chemicals) All components are listed on the NZIoC inventory, or are exempt

SECTION 16: Other information

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

SDS code: MS32000429**Version:** 01.0**Revision:** 2018-05-08**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