Safety Data Sheet

SUN PLATINUM-ECO DISHWASHER TABLETS

Revision: 2023-12-13 **Version:** 01.2

SECTION 1: Identification of the substance/mixture and supplier

1.1 Product identifier
Product name: SUN PLATINUM-ECO DISHWASHER TABLETS
Sun is a registered trade mark and is used under licence of Unilever

1.2 Recommended use and restrictions on use
Identified uses:
Dishwasher tablets
Restrictions of use:
Uses other than those identified are not recommended

1.3 Details of the supplier
DIVERSEY NEW ZEALAND LTD.
24 Bancroft Crescent, Glendene, Auckland, 0602, New Zealand
Telephone: 0800 803 615 (toll free)

Website: www.diversey.com

1.4 Emergency telephone number
Seek medical advice (show the label or safety data sheet where possible)
Call 0800 243 622 (24 hrs)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Acute toxicity, oral, Category 5
Skin irritation, Category 2
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.
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.

SECTION 3: Composition/information on ingredients

3.1 Substances / Mixtures

Ingredient(s)	CAS#	EC number	Weight percent
sodium carbonate	497-19-8	207-838-8	10-30
sodium percarbonate	15630-89-4	239-707-6	10-30
subtilisin	9014-01-1	232-752-2	0.1-1
glycerol	56-81-5	200-289-5	0.01-0.1

[4] Polymer.
Non-hazardous ingredients are the remainder and add up to 100%.

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

SECTION 4: First aid measures

4.1 Description of first aid measures
Inhalation: 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 face, hands and any exposed skin thoroughly after handling. Take off contaminated clothing. Wash contaminated clothing before reuse. Avoid contact with eyes. Use only with adequate ventilation. See chapter 8.2, Exposure controls / Personal protection.

7.2 Conditions for safe storage, including any incompatibilities
Store in accordance with local and national regulations. Store in a closed container. Keep only in original packaging.
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)
subtilisin			0.00006 mg/m³

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:

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: No special requirements under normal use conditions.
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: 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: Solid

Appearance: Tablets
Colour: White
Odour: Product specific
Odour threshold: Not applicable
pH: Not applicable (neat)
Dilution pH: ≈ 10 (50%) 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 Not applicable to solids or gases

Flammability (liquid): Not applicable.
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 determined
Lower and upper explosion limit/flammability limit (%): Not determined
Vapour pressure: Not determined
Relative density: Not determined
Relative vapour density: No data available. Not applicable to solids
Particle characteristics: Not determined. Not relevant to classification of this product.
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 Not applicable to solids or gases
Explosive properties: Not explosive.
Oxidising properties: Not oxidising.

9.2 Other information
Surface tension (N/m): Not determined
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
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): 4400
ATE - Inhalatory, mists (mg/l): >5

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)
sodium carbonate	LD_{50}	2800	Rat	OECD 401 (EU B.1)	
sodium percarbonate	LD_{50}	1034	Rat	Method not given	
Alcohols, C12-14, ethoxylated propoxylated		No data available			
alkyl alcohol alkoxylate	LD_{50}	> 2000	Rat	OECD 401 (EU B.1)	
subtilisin	LD_{50}	1800	Rat	OECD 401 (EU B.1)	
rape oil		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	
sodium percarbonate	LD_{50}	> 2000	Rabbit	OECD 402 (EU B.3)	
Alcohols, C12-14, ethoxylated propoxylated		No data available			
alkyl alcohol alkoxylate	LD_{50}	> 2000		Method not given	
subtilisin		No data available			
rape oil		No data available			

Acute inhalative toxicity

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
sodium carbonate	LC_{50}	> 2.3 (dust)		Weight of evidence	2
sodium percarbonate		No data available			
Alcohols, C12-14, ethoxylated propoxylated		No data available			
alkyl alcohol alkoxylate		No data available			
subtilisin		-		Weight of evidence	
rape oil		No data available			

Irritation and corrosivity

Skin irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
sodium carbonate	Not irritant	Rabbit	OECD 404 (EU B.4)	
sodium percarbonate	Not irritant	Rabbit	Method not given	
Alcohols, C12-14, ethoxylated propoxylated	No data available			
alkyl alcohol alkoxylate	Not irritant	Rabbit	OECD 404 (EU B.4)	
subtilisin	Mild irritant	Rabbit	OECD 404 (EU B.4)	
rape oil	No data available			

Eye irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
sodium carbonate	Irritant	Rabbit	OECD 405 (EU B.5)	
sodium percarbonate	Severe damage	Rabbit	EPA OPP 81-4	
Alcohols, C12-14, ethoxylated propoxylated	No data available			
alkyl alcohol alkoxylate	Not corrosive or irritant	Rabbit	Draize test	
subtilisin	Not corrosive or irritant	Rabbit	OECD 405 (EU B.5)	
rape oil	No data available			

Respiratory tract irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
sodium carbonate	No data available			
sodium percarbonate	Irritating to respiratory tract	Mouse	Method not given	

Alcohols, C12-14, ethoxylated propoxylated	No data available			
alkyl alcohol alkoxylate	No data available			
subtilisin	Irritating to respiratory tract			
rape oil	No data available			

Sensitisation

Sensitisation by skin contact

Ingredient(s)	Result	Species	Method	Exposure time (h)
sodium carbonate	Not sensitising		Method not given	
sodium percarbonate	Not sensitising	Guinea pig	OECD 406 (EU B.6) / Buehler test	
Alcohols, C12-14, ethoxylated propoxylated	No data available			
alkyl alcohol alkoxylate	Not sensitising	Guinea pig	OECD 406 (EU B.6) / GPMT	
subtilisin	No data available			
rape oil	No data available			

Sensitisation by inhalation

Ingredient(s)	Result	Species	Method	Exposure time
sodium carbonate	No data available			
sodium percarbonate	No data available			
Alcohols, C12-14, ethoxylated propoxylated	No data available			
alkyl alcohol alkoxylate	No data available			
subtilisin	Sensitising		Weight of evidence	
rape oil	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	
sodium percarbonate	No data available		No data available	
Alcohols, C12-14, ethoxylated propoxylated	No data available		No data available	
alkyl alcohol alkoxylate	No evidence for mutagenicity, negative test results	OECD 471 (EU B.12/13) Read across	No data available	
subtilisin	No evidence for mutagenicity, negative test results	OECD 471 (EU B.12/13) OECD 473 OECD 476 (Chinese Hamster Ovary)	No data available	
rape oil	No data available		No data available	

Carcinogenicity

Ingredient(s)	Effect
sodium carbonate	No evidence for carcinogenicity, weight-of-evidence
sodium percarbonate	No data available
Alcohols, C12-14, ethoxylated propoxylated	No data available
alkyl alcohol alkoxylate	No data available
subtilisin	No data available
rape oil	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				
sodium percarbonate			No data available				
Alcohols, C12-14, ethoxylated propoxylated			No data available				
alkyl alcohol alkoxylate			No data available				
subtilisin			No data available				
rape oil			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				
sodium percarbonate		No data available				
Alcohols, C12-14, ethoxylated propoxylated		No data available				
alkyl alcohol alkoxylate		No data available				
subtilisin		No data available				
rape oil		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				
sodium percarbonate		No data available				
Alcohols, C12-14, ethoxylated propoxylated		No data available				
alkyl alcohol alkoxylate		No data available				
subtilisin		No data available				
rape oil		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				
sodium percarbonate		No data available				
Alcohols, C12-14, ethoxylated propoxylated		No data available				
alkyl alcohol alkoxylate		No data available				
subtilisin		No data available				
rape oil		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					
sodium percarbonate			No data available					
Alcohols, C12-14, ethoxylated propoxylated			No data available					
alkyl alcohol alkoxylate			No data available					
subtilisin			No data available					
rape oil			No data available					

STOT-single exposure

Ingredient(s)	Affected organ(s)
sodium carbonate	Not applicable
sodium percarbonate	No data available
Alcohols, C12-14, ethoxylated propoxylated	No data available
alkyl alcohol alkoxylate	No data available
subtilisin	Respiratory tract
rape oil	No data available

STOT-repeated exposure

Ingredient(s)	Affected organ(s)

sodium carbonate	Not applicable
sodium percarbonate	No data available
Alcohols, C12-14, ethoxylated propoxylated	No data available
alkyl alcohol alkoxylate	No data available
subtilisin	No data available
rape oil	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	*Lepomis macrochirus*	Method not given	96
sodium percarbonate	LC_{50}	70.7	*Pimephales promelas*	Method not given	96
Alcohols, C12-14, ethoxylated propoxylated		No data available			
alkyl alcohol alkoxylate	LC_{50}	> 1-10	*Brachydanio rerio*	Method not given	96
subtilisin	LC_{50}	8.2	*Fish*	OECD 203 (EU C.1)	96
rape oil		No data available			

Aquatic short-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
sodium carbonate	EC_{50}	200-227	*Ceriodaphnia dubia*	Method not given	96
sodium percarbonate	EC_{50}	4.9	*Daphnia pulex*	Method not given	48
Alcohols, C12-14, ethoxylated propoxylated		No data available			
alkyl alcohol alkoxylate	EC_{50}	> 10-100	*Daphnia magna Straus*	Method not given	24
subtilisin	EC_{50}	0.586	*Daphnia*	OECD 202 (EU C.2)	48
rape oil		No data available			

Aquatic short-term toxicity - algae

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
sodium carbonate	EC_{50}	> 800	*Selenastrum capricornutum*		72
sodium percarbonate	EC_{50}	2.5	*Chlorella vulgaris*	Read across	
Alcohols, C12-14, ethoxylated propoxylated		No data available			
alkyl alcohol alkoxylate	EC_{10}	> 0.1-1	*Not specified*		72
subtilisin	$E_r C_{50}$	0.830	*Not specified*	OECD 201 (EU C.3)	72
rape oil		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			
sodium percarbonate		No data available			

Alcohols, C12-14, ethoxylated propoxylated		No data available			
alkyl alcohol alkoxylate		No data available			
subtilisin		No data available			
rape oil		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			
sodium percarbonate	EC_{50}	466	*Activated sludge*	OECD 209	0.5 hour(s)
Alcohols, C12-14, ethoxylated propoxylated		No data available			
alkyl alcohol alkoxylate	EC_{0}	> 100	*Bacteria Activated sludge*	Method not given	
subtilisin		No data available			
rape oil		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				
sodium percarbonate	NOEC	7.4	*Pimephales promelas*	Method not given	96 hour(s)	
Alcohols, C12-14, ethoxylated propoxylated		No data available				
alkyl alcohol alkoxylate		No data available				
subtilisin		No data available				
rape oil		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				
sodium percarbonate	NOEC	2	*Daphnia pulex*	Method not given	48 hour(s)	
Alcohols, C12-14, ethoxylated propoxylated		No data available				
alkyl alcohol alkoxylate		No data available				
subtilisin		No data available				
rape oil		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				

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				

Terrestrial toxicity - plants, if available:

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

		soil)				
sodium carbonate		No data available				

Terrestrial toxicity - birds, if available:

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

Terrestrial toxicity - beneficial insects, if available:

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

Terrestrial toxicity - soil bacteria, if available:

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

12.2 Persistence and degradability

Abiotic degradation

Abiotic degradation - photodegradation in air, if available:

Ingredient(s)	Half-life time	Method	Evaluation	Remark
sodium carbonate	No data available			
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:

Ingredient(s)	Type	Half-life time	Method	Evaluation	Remark
sodium carbonate		No data available			

Biodegradation

Ready biodegradability - aerobic conditions

Ingredient(s)	Inoculum	Analytical method	DT_{50}	Method	Evaluation
sodium carbonate					Not applicable (inorganic substance)
sodium percarbonate					Not applicable (inorganic substance)
Alcohols, C12-14, ethoxylated propoxylated					No data available
alkyl alcohol alkoxylate	Activated sludge, aerobe	Oxygen depletion	> 60%	OECD 301F	Readily biodegradable
subtilisin				OECD 301B	Readily biodegradable
rape oil					Readily biodegradable

Ready biodegradability - anaerobic and marine conditions, if available:

Ingredient(s)	Medium & Type	Analytical method	DT_{50}	Method	Evaluation
sodium carbonate					No data available

Degradation in relevant environmental compartments, if available:

Ingredient(s)	Medium & Type	Analytical method	DT_{50}	Method	Evaluation
sodium carbonate					No data available

12.3 Bioaccumulative potential

Partition coefficient n-octanol/water (log Kow)

Ingredient(s)	Value	Method	Evaluation	Remark
sodium carbonate	No data available		No bioaccumulation expected	
sodium percarbonate	No data available			
Alcohols, C12-14, ethoxylated	No data available			

propoxylated				
alkyl alcohol alkoxylate	No data available		No bioaccumulation expected	
subtilisin	< 0			
rape oil	No data available			

Bioconcentration factor (BCF)

Ingredient(s)	Value	Species	Method	Evaluation	Remark
sodium carbonate	No data available			No bioaccumulation expected	
sodium percarbonate	No data available				
Alcohols, C12-14, ethoxylated propoxylated	No data available				
alkyl alcohol alkoxylate	No data available				
subtilisin	-			Not relevant, does not bioaccumulate	
rape oil	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
sodium carbonate	No data available				Potential for mobility in soil, soluble in water
sodium percarbonate	No data available				High potential for mobility in soil
Alcohols, C12-14, ethoxylated propoxylated	No data available				
alkyl alcohol alkoxylate	No data available				Potential for adsorption to soil
subtilisin	No data available				
rape oil	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

ADG, IMO/IMDG, ICAO/IATA

14.1 UN number or ID number: Non-dangerous goods
14.2 UN proper shipping name: Non-dangerous goods
14.3 Transport hazard class(es): Non-dangerous goods
14.4 Packing group: Non-dangerous goods
14.5 Environmental hazards: Non-dangerous goods
14.6 Special precautions for user: Non-dangerous goods
14.7 Maritime transport in bulk according to IMO instruments: 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 2020
Inventory Listing(s) New Zealand: NZIoC (New Zealand Inventory of Chemicals)
All components are listed on the NZIoC inventory, or are exempt

HSNO Classification

6.1E - Acutely toxic (oral)
6.3A - Irritating to the skin
6.4A - Irritating to the eye
9.1D - Slightly harmful to the aquatic environment or are otherwise designed for biocidal action

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: MS3200444 **Version:** 01.2 **Revision:** 2023-12-13

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

Abbreviations and acronyms:
• DNEL - Derived No Effect Limit
• AUH - Non GHS hazard statement
• PNEC - Predicted No Effect Concentration
• ATE - Acute Toxicity Estimate
• LD50 - Lethal Dose, 50% / Median Lethal dose
• LC50 - Lethal Concentration, 50% / Median Lethal Concentration
• EC50 - effective concentration, 50%
• NOEL - No observed effect level
• NOAEL - No observed adverse effect level
• STOT-RE - Specific target organ toxicity (repeated exposure)
• STOT-SE - Specific target organ toxicity (single exposure)
• EC No. - European Community Number
• OECD - Organisation for Economic Cooperation and Development

End of Safety Data Sheet