Diversey
A SOLENIS COMPANY

Safety Data Sheet

SUMA DIFY

Revision: 2024-07-31 **Version:** 01.1

SECTION 1: Identification of the substance/mixture and supplier

1.1 Product identifier
Product name: SUMA DIFY

1.2 Recommended use and restrictions on use
Identified uses:
Machine ware washing 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: 0800 803 615 (toll free)

Website: www.diversey.com

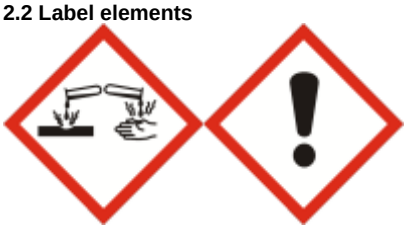
1.4 Emergency telephone number
Seek medical advice (show the label or safety data sheet where possible)
Call 0800 243 622 (24 hrs)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Skin corrosion, Category 1C
Serious eye damage, Category 1
Acute toxicity, oral, Category 4
Chronic aquatic toxicity, Category 2

2.2 Label elements



Signal word: Danger

Hazard statements:
H302 - Harmful if swallowed.
H314 - Causes severe skin burns and eye damage.
H411 - Toxic to aquatic life with long lasting effects.
AUH031 - Contact with acids liberates toxic gas.

Prevention statement(s):
P233 - Keep container tightly closed.
P260 - Do not breathe dust.
P264 - Wash face, hands and any exposed skin thoroughly after handling.
P270 - Do not eat, drink or smoke when using this product.
P280 - Wear protective gloves, protective clothing and eye or face protection.

Response statement(s):
P301 + P330 + P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P301 + P312 - IF SWALLOWED: Call a POISON CENTRE, doctor or physician if you feel unwell.
P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 - Immediately call a POISON CENTRE, doctor or physician.
P321 - Specific treatment (see supplemental first aid instructions on this label).
P363 - Wash contaminated clothing before reuse.

Storage statement(s):
P405 - Store locked up.

Disposal statement(s):
P501 - Dispose of unused content as chemical waste.

2.3 Other hazards
No other hazards known.

SECTION 3: Composition/information on ingredients

3.1 Substances / Mixtures

Ingredient(s)	CAS#	EC number	Weight percent
disodium metasilicate	6834-92-0	229-912-9	30-60
pentasodium triphosphate	7758-29-4	231-838-7	30-60
alkyl alcohol alkoxylate	68920-69-4	[4]	3-10
sodium dichloroisocyanurate, dihydrate	51580-86-0	220-767-7	1-3
Silica, amorphous, precipitated and gel	112945-52-5	231-545-4	1-3

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

[4] Polymer.
Workplace exposure limit(s), if available, are listed in subsection 8.1.

SECTION 4: First aid measures

4.1 Description of first aid measures

General Information: 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.

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 for at least 30 minutes. Take off immediately all contaminated clothing and wash it before reuse. Immediately call a POISON CENTRE, doctor or physician.

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. Do NOT induce vomiting. Keep at rest. Immediately call a POISON CENTRE, doctor or physician. 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: Shower and eyewash facilities should be considered in a workplace where necessary. Eyewash facilities should be considered in a workplace where necessary.

4.2 Most important symptoms and effects, both acute and delayed

Inhalation: May cause bronchospasm in chlorine sensitive individuals.

Skin contact: Causes severe burns.

Eye contact: Causes severe or permanent damage.

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

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
2X
2 - Fine water spray
X - Liquid-tight chemical protective clothing and breathing apparatus. Contain.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Ensure adequate ventilation. Do not breathe dust or vapour. Wear suitable protective clothing. Wear eye/face protection. 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
Ensure adequate ventilation. Collect mechanically. Do not place spilled materials back into the original container. Collect in closed and suitable containers for disposal.

6.4 Reference to other sections
For personal protective equipment see subsection 8.2. For disposal considerations see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling
Measures to prevent fire and explosions:
No special precautions required.

Measures required to protect the environment:
For environmental exposure controls see subsection 8.2.

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 immediately all contaminated clothing. Wash contaminated clothing before reuse. Avoid contact with skin and eyes. Do not breathe dust. Do not eat, drink or smoke when using this product. 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)
Silica, amorphous, precipitated and gel	10 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: The product is intended to be used in closed systems.
Appropriate organisational controls: Avoid direct contact and/or splashes where possible. Train personnel.

Personal protective equipment
Eye / face protection: Safety glasses or goggles (AS/NZS 1337.1).
Hand protection: Chemical-resistant protective gloves (AS/NZS 2161.10). Verify instructions regarding permeability and breakthrough time, as provided by the gloves supplier. Consider specific local use conditions, such as risk of splashes, cuts, contact time and temperature.

	Suggested gloves for prolonged contact: Material: butyl rubber Penetration time: ≥ 480 min Material thickness: ≥ 0.7 mm Suggested gloves for protection against splashes: Material: nitrile rubber Penetration time: ≥ 30 min Material thickness: ≥ 0.4 mm In consultation with the supplier of protective gloves a different type providing similar protection may be chosen.
Body protection:	Wear chemical-resistant clothing and boots in case direct dermal exposure and/or splashes may occur (EN ISO 13982-1).
Respiratory protection:	If exposure to dust cannot be avoided use: half mask (EN 140) with particle filter P2 (EN 143) or full-face mask (EN 136) with particle filter P1 (EN 143) Consider specific local use conditions. In consultation with the supplier of respiratory protection equipment a different type providing similar protection may be chosen.
Environmental exposure controls:	Should not reach sewage water or drainage ditch undiluted or unneutralised.

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: Chlorine	
Odour threshold: Not applicable	
pH: Not applicable	
Dilution pH: ≈ 12 (1%)	
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: ≈ 0.98 (20 °C)	OECD 109 (EU A.3)
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.	
Kinematic viscosity: Not applicable to solids or gases	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
Reacts with acids. Reacts with acids releasing toxic chlorine gas.

10.6 Hazardous decomposition products
Chlorine.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Mixture data: .

Relevant calculated ATE(s):
ATE - Oral (mg/kg): 2000

Skin irritation and corrosivity
Result: Skin corrosive 1C **Method:** Classified according to NZ HSNO Regulations

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)
disodium metasilicate	LD_{50}	770 - 820	Mouse	Method not given	ECHA Dossier 2020
pentasodium triphosphate	LD_{0}	> 2000	Rat	OECD 401 (EU B.1)	
alkyl alcohol alkoxylate	LD_{50}	> 5000	Rat	Read across	
sodium dichloroisocyanurate, dihydrate	LD_{50}	1671	Rat	EPA OPP 81-1	
Silica, amorphous, precipitated and gel	LD_{50}	> 5000	Rat	OECD 401 (EU B.1)	

Acute dermal toxicity

Ingredient(s)	Endpoint	Value (mg/kg)	Species	Method	Exposure time (h)
disodium metasilicate	LD_{50}	> 5000	Rat Guinea pig	Method not given	
pentasodium triphosphate	LD_{50}	> 4640	Rabbit	Method not given	
alkyl alcohol alkoxylate		No data available			
sodium dichloroisocyanurate, dihydrate	LD_{50}	> 5000	Rat	EPA OPP 81-2	
Silica, amorphous, precipitated and gel	LD_{50}	> 5000	Rabbit		

Acute inhalative toxicity

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
disodium metasilicate	LC_{50}	> 2.06	Rat	Method not given	
pentasodium triphosphate	LC_{50}	0.39 (dust)	Rat	EPA OPP 81-3	4
alkyl alcohol alkoxylate		No data available			
sodium dichloroisocyanurate, dihydrate	LC_{50}	> 0.27	Rat	OECD 403 (EU B.2)	4
Silica, amorphous, precipitated and gel		No data available			

Irritation and corrosivity
Skin irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
disodium metasilicate	Corrosive		Method not given	
pentasodium triphosphate	Not irritant	Rabbit	OECD 404 (EU B.4)	
alkyl alcohol alkoxylate	Not irritant	Rabbit	Draize test	
sodium dichloroisocyanurate, dihydrate	Not irritant		Method not given	
Silica, amorphous, precipitated and gel	Not irritant			

Eye irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
disodium metasilicate	Corrosive		Method not given	

pentasodium triphosphate	Not corrosive or irritant	Rabbit	OECD 405 (EU B.5)	
alkyl alcohol alkoxylate	Not corrosive or irritant	Rabbit		
sodium dichloroisocyanurate, dihydrate	Irritant		Method not given	
Silica, amorphous, precipitated and gel	Not corrosive or irritant			

Respiratory tract irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
disodium metasilicate	Irritating to respiratory tract		Method not given	
pentasodium triphosphate	No data available			
alkyl alcohol alkoxylate	No data available			
sodium dichloroisocyanurate, dihydrate	Irritating to respiratory tract			
Silica, amorphous, precipitated and gel	No data available			

Sensitisation

Sensitisation by skin contact

Ingredient(s)	Result	Species	Method	Exposure time (h)
disodium metasilicate	Not sensitising	Mouse	OECD 429 (EU B.42)	
pentasodium triphosphate	Not sensitising	Mouse	OECD 429 (EU B.42)	
alkyl alcohol alkoxylate	No data available			
sodium dichloroisocyanurate, dihydrate	Not sensitising	Guinea pig	OECD 429 (EU B.42)	
Silica, amorphous, precipitated and gel	No data available			

Sensitisation by inhalation

Ingredient(s)	Result	Species	Method	Exposure time
disodium metasilicate	No data available			
pentasodium triphosphate	No data available			
alkyl alcohol alkoxylate	No data available			
sodium dichloroisocyanurate, dihydrate	No data available			
Silica, amorphous, precipitated and gel	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)
disodium metasilicate	No data available		No data available	
pentasodium triphosphate	No evidence for mutagenicity, negative test results	OECD 471 (EU B.12/13)	No evidence of genotoxicity, negative test results	OECD 475 (EU B.11)
alkyl alcohol alkoxylate	No data available		No data available	
sodium dichloroisocyanurate, dihydrate	No evidence for mutagenicity, negative test results	OECD 471 (EU B.12/13)	No evidence of genotoxicity, negative test results	OECD 475 (EU B.11)
Silica, amorphous, precipitated and gel	No data available		No data available	

Carcinogenicity

Ingredient(s)	Effect
disodium metasilicate	No data available
pentasodium triphosphate	No evidence for carcinogenicity, negative test results
alkyl alcohol alkoxylate	No data available
sodium dichloroisocyanurate, dihydrate	No evidence for carcinogenicity, negative test results
Silica, amorphous, precipitated and gel	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
disodium metasilicate			No data available				
pentasodium triphosphate	NOAEL	Developmental toxicity	141	Rat	Not known		No evidence for reproductive toxicity
alkyl alcohol alkoxylate			No data available				
sodium dichloroisocyanurate, dihydrate	NOAEL	Developmental toxicity	190	Rat	OECD 416, (EU B.35), oral		No known significant effects or critical hazards
Silica, amorphous, precipitated and gel			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
disodium metasilicate	NOAEL	> 227 - 237	Rat	Method not given		
pentasodium triphosphate		No data available				
alkyl alcohol alkoxylate		No data available				
sodium dichloroisocyanurate, dihydrate	NOAEL	115	Rat	Method not given	28	
Silica, amorphous, precipitated and gel		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
disodium metasilicate		No data available				
pentasodium triphosphate		No data available				
alkyl alcohol alkoxylate		No data available				
sodium dichloroisocyanurate, dihydrate		No data available				
Silica, amorphous, precipitated and gel		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
disodium metasilicate		No data available				
pentasodium triphosphate		No data available				
alkyl alcohol alkoxylate		No data available				
sodium dichloroisocyanurate, dihydrate	NOAEL	> 31	Rat	Method not given	28	
Silica, amorphous, precipitated and gel		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
disodium metasilicate			No data available					
pentasodium triphosphate	Oral	NOAEL	225	Rat	Equivalent of OECD 412 (EU B.8)	24 month(s)		
alkyl alcohol alkoxylate			No data available					
sodium dichloroisocyanurate, dihydrate	Oral	NOAEL	1523	Mouse	OECD 453 (EU B.33)	24 month(s)		
Silica, amorphous, precipitated and gel			No data available					

STOT-single exposure

Ingredient(s)	Affected organ(s)
disodium metasilicate	Respiratory tract
pentasodium triphosphate	Not applicable
alkyl alcohol alkoxylate	No data available
sodium dichloroisocyanurate, dihydrate	Respiratory tract
Silica, amorphous, precipitated and gel	No data available

STOT-repeated exposure

Ingredient(s)	Affected organ(s)
disodium metasilicate	Not applicable
pentasodium triphosphate	Not applicable
alkyl alcohol alkoxylate	No data available
sodium dichloroisocyanurate, dihydrate	Not applicable
Silica, amorphous, precipitated and gel	No data available

Aspiration hazard
Substances with an aspiration hazard (H304), if any, are listed in section 3.

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

SECTION 12: Ecological information

12.1 Toxicity

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)
disodium metasilicate	LC_{50}	210	*Brachydanio rerio*	Method not given	96
pentasodium triphosphate	LC_{50}	1850	*Brachydanio rerio*	Method not given	24
alkyl alcohol alkoxylate		No data available			
sodium dichloroisocyanurate, dihydrate	LC_{50}	0.23	*Lepomis macrochirus*	Method not given	96
Silica, amorphous, precipitated and gel	LL_{50}	> 10000	*Brachydanio rerio*		96

Aquatic short-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
disodium metasilicate	EC_{50}	1700	*Daphnia*	Method not given	48
pentasodium triphosphate	EC_{50}	> 100	*Daphnia magna Straus*	40 CFR 797.1930	48
alkyl alcohol alkoxylate	EC_{50}	10 - 100	*Daphnia magna Straus*	Method not given	48
sodium dichloroisocyanurate, dihydrate	EC_{50}	0.21	*Daphnia magna Straus*	ASTM draft method	48
Silica, amorphous, precipitated and gel	EL_{50}	> 10000	*Daphnia magna Straus*		24

Aquatic short-term toxicity - algae

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
disodium metasilicate	EC_{50}	207	*Chlorella pyrenoidosa*	Method not given	72
pentasodium triphosphate	EC_{50}	160	*Desmodesmus subspicatus*	ISO/TC147/SC5/WG5 N84	96
alkyl alcohol alkoxylate		No data available			
sodium dichloroisocyanurate, dihydrate	EC_{50}	< 0.5	*Scenedesmus obliquus*	Non guideline test	3
Silica, amorphous, precipitated and gel		No data available			

Aquatic short-term toxicity - marine species

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (days)
disodium metasilicate		No data available			
pentasodium triphosphate		No data available			
alkyl alcohol alkoxylate		No data available			
sodium dichloroisocyanurate, dihydrate		No data available			
Silica, amorphous, precipitated and gel		No data available			

Impact on sewage plants - toxicity to bacteria

Ingredient(s)	Endpoint	Value (mg/l)	Inoculum	Method	Exposure time
disodium metasilicate	EC_{50}	> 100	*Activated*	Method not given	3 hour(s)

			sludge		
pentasodium triphosphate		No data available			
alkyl alcohol alkoxylate	EC_{10}	> 10000	*Activated sludge*	DIN 38412, Part 27	17 hour(s)
sodium dichloroisocyanurate, dihydrate	EC_{50}	51		OECD 209	3 hour(s)
Silica, amorphous, precipitated and gel		No data available			

Aquatic long-term toxicity

Aquatic long-term toxicity - fish

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
disodium metasilicate		No data available				
pentasodium triphosphate	LOEC	5	*Not specified*	OECD 212	96 hour(s)	
alkyl alcohol alkoxylate		No data available				
sodium dichloroisocyanurate, dihydrate	NOEC	1000	*Oncorhynchus mykiss*	OECD 215	28 day(s)	
Silica, amorphous, precipitated and gel		No data available				

Aquatic long-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
disodium metasilicate		No data available				
pentasodium triphosphate		No data available				
alkyl alcohol alkoxylate		No data available				
sodium dichloroisocyanurate, dihydrate	NOEC	160	*Daphnia magna*	OECD 211	21 day(s)	
Silica, amorphous, precipitated and gel		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 dichloroisocyanurate, dihydrate		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 dichloroisocyanurate, dihydrate	NOEC	1000	*Eisenia fetida*	OECD 207	14	

Terrestrial toxicity - plants, if available:

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

Terrestrial toxicity - birds, if available:

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

Abiotic degradation - hydrolysis, if available:

Ingredient(s)	Half-life time in fresh water	Method	Evaluation	Remark
sodium dichloroisocyanurate, dihydrate	No data available			

Abiotic degradation - other processes, if available:

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

Biodegradation

Ready biodegradability - aerobic conditions

Ingredient(s)	Inoculum	Analytical method	DT_{50}	Method	Evaluation
disodium metasilicate					Not applicable (inorganic substance)
pentasodium triphosphate					Not applicable (inorganic substance)
alkyl alcohol alkoxylate			> 60 % in 28 day(s)	OECD 301F	Readily biodegradable
sodium dichloroisocyanurate, dihydrate		Oxygen depletion	2 % in 28d day(s)	OECD 301D	Not readily biodegradable.
Silica, amorphous, precipitated and gel					Not applicable (inorganic substance)

Ready biodegradability - anaerobic and marine conditions, if available:

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

Degradation in relevant environmental compartments, if available:

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

12.3 Bioaccumulative potential

Partition coefficient n-octanol/water (log Kow)

Ingredient(s)	Value	Method	Evaluation	Remark
disodium metasilicate	No data available			
pentasodium triphosphate	No data available			
alkyl alcohol alkoxylate	No data available			
sodium dichloroisocyanurate, dihydrate	-0.0056	Method not given	No bioaccumulation expected	
Silica, amorphous, precipitated and gel	No data available			

Bioconcentration factor (BCF)

Ingredient(s)	Value	Species	Method	Evaluation	Remark
disodium metasilicate	No data available				
pentasodium triphosphate	No data available			No bioaccumulation expected	
alkyl alcohol alkoxylate	No data available				
sodium dichloroisocyanurate, dihydrate	No data available				
Silica, amorphous, precipitated and gel	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
disodium metasilicate	No data available				
pentasodium triphosphate	No data available				

alkyl alcohol alkoxylate	No data available				
sodium dichloroisocyanurate, dihydrate	No data available				
Silica, amorphous, precipitated and gel	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: 3253
14.2 UN proper shipping name:
Disodium trioxosilicate , mixture
14.3 Transport hazard class(es):
Transport hazard class (and subsidiary risks): 8
14.4 Packing group: III
14.5 Environmental hazards:
Environmentally hazardous: Yes
Marine pollutant: Yes
14.6 Special precautions for user: None known.
14.7 Maritime transport in bulk according to IMO instruments: The product is not transported in bulk tankers.

Other relevant information:
Hazchem code: 2X
Classification code: C6
Tunnel restriction code: (E)
IMO/IMDG
EmS: F-A, S-B

This product has been classified, labelled and package in accordance with the requirements of the NZ Land Transport Rule: Dangerous Goods, ADG, and the provisions of the IMDG Code.
Transport regulations include special provisions for certain classes of dangerous goods packed in limited quantities.

SECTION 15: Regulatory information

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

HSNO Approval Number HSR002526.
Group standard Cleaning Products (Corrosive) Group Standard 2020
Inventory Listing(s) New Zealand: NZIoC (New Zealand Inventory of Chemicals)
All components are listed on the NZIoC inventory, or are exempt

HSNO Classification 6.1D - Acutely toxic (oral)
8.2C - Corrosive to dermal tissue
8.3A - Corrosive to ocular tissue
9.1B - Ecotoxic in the aquatic environment

SECTION 16: Other information

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

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

End of Safety Data Sheet