

SUMA SHINE K2

Revision: 2024-07-31

Version: 01.1

SECTION 1: Identification of the substance/mixture and supplier

1.1 Product identifier

Product name: SUMA SHINE K2

1.2 Recommended use and restrictions on use

Identified uses:

Utensil presoak and destainer

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

Serious eye damage, Category 1

Acute toxicity, inhalation, Category 4

Skin irritation, Category 2

2.2 Label elements



Signal word: Danger

Hazard statements:

H315 - Causes skin irritation.

H318 - Causes serious eye damage.

H332 - Harmful if inhaled.

Prevention statement(s):

P233 - Keep container tightly closed.

P261 - Avoid breathing dust.

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.

Response statement(s):

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

P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.

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

P310 - Immediately call a POISON CENTRE, doctor or physician.

P321 - Specific treatment (see supplemental first aid instructions on this label).

P362 + P364 - Take off contaminated clothing and wash it before reuse.

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 (% w/w): 2

Not classified as hazardous

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	30-60
pentasodium triphosphate	7758-29-4	231-838-7	10-30
sodium percarbonate	15630-89-4	239-707-6	10-30
disodium metasilicate	6834-92-0	229-912-9	3-10
disodium trisilicate	1344-09-8	215-687-4	3-10
white mineral oil (petroleum)	8042-47-5	232-455-8	1-3
sodium alkylbenzenesulphonate	68411-30-3	270-115-0	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.

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. Call a POISON CENTRE, doctor or physician if you feel unwell. If skin irritation occurs: Get medical advice or attention.

Eye contact:

Hold eyelids apart and flush eyes with plenty of lukewarm water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTRE, doctor or physician.

Ingestion:

Rinse mouth. Immediately drink 1 glass of water. Never give anything by mouth to an unconscious person. Get medical attention or advice if you feel unwell.

Self-protection of first aider:

Consider personal protective equipment as indicated in subsection 8.2.

First aid facilities:

Eyewash facilities should be considered in a workplace where necessary.

4.2 Most important symptoms and effects, both acute and delayed

Inhalation:

No known effects or symptoms in normal use.

Skin contact:

Causes irritation.

Eye contact:

Causes severe or permanent damage.

Ingestion:

No known effects or symptoms in normal use.

4.3 Indication of any immediate medical attention and special treatment needed

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

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

SECTION 5: Firefighting measures

5.1 Extinguishing media

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

5.2 Special hazards arising from the substance or mixture

No special hazards known.

5.3 Advice for firefighters

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

5.4 Hazchem code

None allocated

SECTION 6: Accidental release measures

SUMA SHINE K2

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. Repeated or prolonged contact: Wear suitable gloves.

6.2 Environmental precautions

Do not allow to enter drainage system, surface or ground water.

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 advised by Diversy. Wash face, hands and any exposed skin thoroughly after handling. Take off 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 outdoors or in a well-ventilated area. 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:

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:**

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

SUMA SHINE K2

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: No special requirements under normal use conditions.

Recommended safety measures for handling the diluted product:

Recommended maximum concentration (% w/w): 2

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

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

Personal protective equipment

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

Hand protection: No special requirements under normal use conditions.

Body protection: No special requirements under normal use conditions.

Respiratory protection: No special requirements under normal use conditions.

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

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

	Method / remark
Physical state: Solid	
Appearance: Powder	
Colour: Clear , White	
Odour: Product specific	
Odour threshold: Not applicable	
pH: Not applicable	
Dilution pH: > 11 (2 %)	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: ≈ 1.05 (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

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

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): >2000

ATE - Inhalatory, mists (mg/l): 5

Skin irritation and corrosivity

Result: Not corrosive to skin **Method:** OECD 431 (EU B.40 bis), Episkin

Eye irritation and corrosivity

Result: No data available

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)	
pentasodium triphosphate	LD ₀	> 2000	Rat	OECD 401 (EU B.1)	
sodium percarbonate	LD ₅₀	1034	Rat	Method not given	
disodium metasilicate	LD ₅₀	770 - 820	Mouse	Method not given	ECHA Dossier 2020
disodium trisilicate	LD ₅₀	3400	Rat	Method not given	
white mineral oil (petroleum)	LD ₅₀	> 5000	Rat	OECD 401 (EU B.1)	
sodium alkylbenzenesulphonate	LD ₅₀	1080	Rat	OECD 401 (EU B.1)	

Acute dermal toxicity

Ingredient(s)	Endpoint	Value (mg/kg)	Species	Method	Exposure time (h)
sodium carbonate	LD ₅₀	> 2000	Rabbit	Method not given	
pentasodium triphosphate	LD ₅₀	> 4640	Rabbit	Method not given	
sodium percarbonate	LD ₅₀	> 2000	Rabbit	OECD 402 (EU B.3)	
disodium metasilicate	LD ₅₀	> 5000	Rat Guinea pig	Method not given	
disodium trisilicate	LD ₅₀	> 5000	Rat	Method not given	
white mineral oil (petroleum)	LD ₅₀	> 2000	Rabbit	OECD 402 (EU B.3)	
sodium alkylbenzenesulphonate	LD ₅₀	> 2000	Rat	OECD 402 (EU B.3)	

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
pentasodium triphosphate	LC ₅₀	0.39 (dust)	Rat	EPA OPP 81-3	4
sodium percarbonate		No data available			
disodium metasilicate	LC ₅₀	> 2.06	Rat	Method not given	
disodium trisilicate		No mortality observed	Rat	Method not given Non guideline test	4
white mineral oil (petroleum)	LC ₅₀	> 5	Rat	OECD 403 (EU B.2)	4
sodium alkylbenzenesulphonate		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)	
pentasodium triphosphate	Not irritant	Rabbit	OECD 404 (EU B.4)	
sodium percarbonate	Not irritant	Rabbit	Method not given	
disodium metasilicate	Corrosive		Method not given	
disodium trisilicate	Irritant		Method not given	
white mineral oil (petroleum)	Not irritant			
sodium alkylbenzenesulphonate	Irritant	Rabbit	OECD 404 (EU B.4)	

Eye irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
sodium carbonate	Irritant	Rabbit	OECD 405 (EU B.5)	
pentasodium triphosphate	Not corrosive or irritant	Rabbit	OECD 405 (EU B.5)	
sodium percarbonate	Severe damage	Rabbit	EPA OPP 81-4	
disodium metasilicate	Corrosive		Method not given	
disodium trisilicate	Severe damage Irritant		Method not given	
white mineral oil (petroleum)	Not corrosive or irritant			
sodium alkylbenzenesulphonate	Corrosive	Rabbit	OECD 405 (EU B.5)	

Respiratory tract irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
sodium carbonate	No data available			
pentasodium triphosphate	No data available			
sodium percarbonate	Irritating to respiratory tract	Mouse	Method not given	
disodium metasilicate	Irritating to respiratory tract		Method not given	
disodium trisilicate	Irritating to respiratory tract		Method not given	
white mineral oil (petroleum)	No data available			
sodium alkylbenzenesulphonate	Not irritating to respiratory tract			

Sensitisation

Sensitisation by skin contact

Ingredient(s)	Result	Species	Method	Exposure time (h)
sodium carbonate	Not sensitising		Method not given	
pentasodium triphosphate	Not sensitising	Mouse	OECD 429 (EU B.42)	
sodium percarbonate	Not sensitising	Guinea pig	OECD 406 (EU B.6) / Buehler test	
disodium metasilicate	Not sensitising	Mouse	OECD 429 (EU B.42)	
disodium trisilicate	Not sensitising		Method not given	
white mineral oil (petroleum)	Not sensitising			
sodium alkylbenzenesulphonate	Not sensitising	Guinea pig	OECD 406 (EU B.6) / GPMT	

Sensitisation by inhalation

Ingredient(s)	Result	Species	Method	Exposure time
sodium carbonate	No data available			
pentasodium triphosphate	No data available			
sodium percarbonate	No data available			
disodium metasilicate	No data available			
disodium trisilicate	No data available			
white mineral oil (petroleum)	No data available			
sodium alkylbenzenesulphonate	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	

SUMA SHINE K2

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)
sodium percarbonate	No data available		No data available	
disodium metasilicate	No data available		No data available	
disodium trisilicate	No evidence for mutagenicity, negative test results		No data available	
white mineral oil (petroleum)	No data available		No data available	
sodium alkylbenzenesulphonate	No evidence for mutagenicity, negative test results	OECD 471 (EU B.12/13) OECD 476 OECD 473	No data available	

Carcinogenicity

Ingredient(s)	Effect
sodium carbonate	No evidence for carcinogenicity, weight-of-evidence
pentasodium triphosphate	No evidence for carcinogenicity, negative test results
sodium percarbonate	No data available
disodium metasilicate	No data available
disodium trisilicate	No evidence for carcinogenicity, negative test results
white mineral oil (petroleum)	No data available
sodium alkylbenzenesulphonate	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				
pentasodium triphosphate	NOAEL	Developmental toxicity	141	Rat	Not known		No evidence for reproductive toxicity
sodium percarbonate			No data available				
disodium metasilicate			No data available				
disodium trisilicate			No data available				No evidence for reproductive toxicity
white mineral oil (petroleum)			No data available				
sodium alkylbenzenesulphonate	NOAEL	Teratogenic effects	300	Rat	Non guideline test		No known significant effects or critical hazards

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				
pentasodium triphosphate		No data available				
sodium percarbonate		No data available				
disodium metasilicate	NOAEL	> 227 - 237	Rat	Method not given		
disodium trisilicate	NOAEL	> 159	Rat	Method not given	180	No effects observed
white mineral oil (petroleum)		No data available				
sodium alkylbenzenesulphonate		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				
pentasodium triphosphate		No data available				
sodium percarbonate		No data available				
disodium metasilicate		No data available				
disodium trisilicate		No data available				
white mineral oil (petroleum)		No data available				
sodium alkylbenzenesulphonate		No data available				

SUMA SHINE K2

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				
pentasodium triphosphate		No data available				
sodium percarbonate		No data available				
disodium metasilicate		No data available				
disodium trisilicate		No data available				
white mineral oil (petroleum)		No data available				
sodium alkylbenzenesulphonate		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					
pentasodium triphosphate	Oral	NOAEL	225	Rat	Equivalent of OECD 412 (EU B.8)	24 month(s)		
sodium percarbonate			No data available					
disodium metasilicate			No data available					
disodium trisilicate			No data available					
white mineral oil (petroleum)			No data available					
sodium alkylbenzenesulphonate			No data available					

STOT-single exposure

Ingredient(s)	Affected organ(s)
sodium carbonate	Not applicable
pentasodium triphosphate	Not applicable
sodium percarbonate	No data available
disodium metasilicate	Respiratory tract
disodium trisilicate	No data available
white mineral oil (petroleum)	No data available
sodium alkylbenzenesulphonate	Not applicable

STOT-repeated exposure

Ingredient(s)	Affected organ(s)
sodium carbonate	Not applicable
pentasodium triphosphate	Not applicable
sodium percarbonate	No data available
disodium metasilicate	Not applicable
disodium trisilicate	Not applicable
white mineral oil (petroleum)	No data available
sodium alkylbenzenesulphonate	Not applicable

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)
sodium carbonate	LC ₅₀	300	<i>Lepomis macrochirus</i>	Method not given	96
pentasodium triphosphate	LC ₅₀	1850	<i>Brachydanio rerio</i>	Method not given	24
sodium percarbonate	LC ₅₀	70.7	<i>Pimephales promelas</i>	Method not given	96
disodium metasilicate	LC ₅₀	210	<i>Brachydanio rerio</i>	Method not given	96
disodium trisilicate	LC ₅₀	260 - 310	<i>Brachydanio rerio</i> <i>Oncorhynchus mykiss</i>	Method not given	96
white mineral oil (petroleum)		No data available			
sodium alkylbenzenesulphonate	LC ₅₀	1.67	Fish	EPA-OPPTS 850.1075	96

Aquatic short-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
sodium carbonate	EC ₅₀	200-227	<i>Ceriodaphnia dubia</i>	Method not given	96
pentasodium triphosphate	EC ₅₀	> 100	<i>Daphnia magna</i> Straus	40 CFR 797.1930	48
sodium percarbonate	EC ₅₀	4.9	<i>Daphnia pulex</i>	Method not given	48
disodium metasilicate	EC ₅₀	1700	<i>Daphnia</i>	Method not given	48
disodium trisilicate	EC ₅₀	1700	<i>Daphnia magna</i> Straus	Method not given OECD 202, static	48
white mineral oil (petroleum)		No data available			
sodium alkylbenzenesulphonate	LC ₅₀	2.9	<i>Daphnia</i>	OECD 202 (EU C.2)	48

Aquatic short-term toxicity - algae

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
sodium carbonate	EC ₅₀	> 800	<i>Selenastrum capricornutum</i>		72
pentasodium triphosphate	EC ₅₀	160	<i>Desmodesmus subspicatus</i>	ISO/TC147/SC5/WG5 N84	96
sodium percarbonate	EC ₅₀	2.5	<i>Chlorella vulgaris</i>	Read across	
disodium metasilicate	EC ₅₀	207	<i>Chlorella pyrenoidosa</i>	Method not given	72
disodium trisilicate	EC ₅₀	207	<i>Desmodesmus subspicatus</i>	DIN 38412, Part 9	72
white mineral oil (petroleum)		No data available			
sodium alkylbenzenesulphonate	E _b C ₅₀	47.3	Not specified	Non guideline test	72

Aquatic short-term toxicity - marine species

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (days)
sodium carbonate		No data available			
pentasodium triphosphate		No data available			
sodium percarbonate		No data available			
disodium metasilicate		No data available			
disodium trisilicate		No data available			
white mineral oil (petroleum)		No data available			
sodium alkylbenzenesulphonate		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			
pentasodium triphosphate		No data available			

SUMA SHINE K2

sodium percarbonate	EC ₅₀	466	Activated sludge	OECD 209	0.5 hour(s)
disodium metasilicate	EC ₅₀	> 100	Activated sludge	Method not given	3 hour(s)
disodium trisilicate		No data available			
white mineral oil (petroleum)		No data available			
sodium alkylbenzenesulphonate	EC ₅₀	550	Bacteria	OECD 209	3 hour(s)

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				
pentasodium triphosphate	LOEC	5	<i>Not specified</i>	OECD 212	96 hour(s)	
sodium percarbonate	NOEC	7.4	<i>Pimephales promelas</i>	Method not given	96 hour(s)	
disodium metasilicate		No data available				
disodium trisilicate	NOEC	348	<i>Brachydanio rerio</i>	Method not given	96 hour(s)	
white mineral oil (petroleum)		No data available				
sodium alkylbenzenesulphonate	NOEC	0.23	<i>Oncorhynchus mykiss</i>	Method not given	72 day(s)	

Aquatic long-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
sodium carbonate		No data available				
pentasodium triphosphate		No data available				
sodium percarbonate	NOEC	2	<i>Daphnia pulex</i>	Method not given	48 hour(s)	
disodium metasilicate		No data available				
disodium trisilicate		No data available				
white mineral oil (petroleum)		No data available				
sodium alkylbenzenesulphonate	NOEC	1.41	<i>Daphnia magna</i>	OECD 211		

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 soil)	Species	Method	Exposure time (days)	Effects observed
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	Species	Method	Exposure	Effects observed
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	(mg/kg dw soil)	time (days)
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)
pentasodium triphosphate					Not applicable (inorganic substance)
sodium percarbonate					Not applicable (inorganic substance)
disodium metasilicate					Not applicable (inorganic substance)
disodium trisilicate					Not applicable (inorganic substance)
white mineral oil (petroleum)				OECD 301F	Not readily biodegradable.
sodium alkylbenzenesulphonate	Activated sludge, aerobe	CO ₂ production	85 % in 28 day(s)	OECD 301B	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	
pentasodium triphosphate	No data available			
sodium percarbonate	No data available			
disodium metasilicate	No data available			
disodium trisilicate	No data available		Low potential for bioaccumulation Not relevant, does not bioaccumulate	
white mineral oil (petroleum)	No data available			
sodium alkylbenzenesulphonate	3.32	Method not given	Low potential for bioaccumulation	

Bioconcentration factor (BCF)

SUMA SHINE K2

Ingredient(s)	Value	Species	Method	Evaluation	Remark
sodium carbonate	No data available			No bioaccumulation expected	
pentasodium triphosphate	No data available			No bioaccumulation expected	
sodium percarbonate	No data available				
disodium metasilicate	No data available				
disodium trisilicate	No data available				
white mineral oil (petroleum)	No data available				
sodium alkylbenzenesulphonate	2-1000		Method not given	High potential for bioaccumulation	

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
pentasodium triphosphate	No data available				
sodium percarbonate	No data available				High potential for mobility in soil
disodium metasilicate	No data available				
disodium trisilicate	No data available				
white mineral oil (petroleum)	No data available				
sodium alkylbenzenesulphonate	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

6.1D - Acutely toxic (inhalation)

6.3A - Irritating to the skin

8.3A - Corrosive to ocular tissue

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: MS3200358**Version:** 01.1**Revision:** 2024-07-31**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