



## SURF PROFESSIONAL LAUNDRY POWDER

Revision: 2019-12-19

Version: 01.0

### SECTION 1: Identification of the substance/mixture and supplier

#### 1.1 Product identifier

**Product name:** SURF PROFESSIONAL LAUNDRY POWDER

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#### 1.2 Recommended use and restrictions on use

**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](http://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

##### HSNO Classification

6.1E - Acutely toxic (inhalation)

6.3A - Irritating to the skin

8.3A - Corrosive to ocular tissue

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

##### GHS Equivalent Classification

Acute toxicity, inhalation, Category 5

Skin irritation, Category 2

Serious eye damage, Category 1

Acute aquatic toxicity, Category 3

#### 2.2 Label elements



**Signal word:** Danger

##### Hazard statements:

H333 - May be harmful if inhaled.

H315 - Causes skin irritation.

H318 - Causes serious eye damage.

H402 - Harmful to aquatic life.

##### Prevention statement(s):

P233 - Keep container tightly closed.

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

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.

**SURF PROFESSIONAL LAUNDRY POWDER**

P310 - Immediately call a POISON CENTRE, doctor or physician.  
 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 number	EC number	Weight percent
sodium carbonate	497-19-8	207-838-8	10-30
sodium silicate	1344-09-8	215-687-4	3-10
sodium alkylbenzenesulphonate	68411-30-3	270-115-0	3-10
Alcohols, C12-18, ethoxylated	68213-23-0	500-201-8	0.1-1
sodium hypochlorite	7681-52-9	231-668-3	0.01-0.1

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

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

**SECTION 4: First aid measures****4.1 Description of first aid measures**

<b>Inhalation:</b>	Remove person to fresh air and keep comfortable for breathing. Get medical attention or advice if you feel unwell.
<b>Skin contact:</b>	Wash skin with plenty of lukewarm, gently flowing water. If skin irritation occurs: Get medical advice or attention.
<b>Eye contact:</b>	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.
<b>Ingestion:</b>	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.
<b>Self-protection of first aider:</b>	Consider personal protective equipment as indicated in subsection 8.2.
<b>First aid facilities:</b>	Eyewash facilities should be considered in a workplace where necessary.

**4.2 Most important symptoms and effects, both acute and delayed**

<b>Inhalation:</b>	No known effects or symptoms in normal use.
<b>Skin contact:</b>	Causes irritation.
<b>Eye contact:</b>	Causes severe or permanent damage.
<b>Ingestion:</b>	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 protective clothing, gloves and eye/face protection.

**SURF PROFESSIONAL LAUNDRY POWDER****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. 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 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:

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:**

Safety glasses or goggles (EN 166).

**Hand protection:**

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:  $\geq 480$  min Material thickness:  $\geq 0.7$  mm

Suggested gloves for protection against splashes: Material: nitrile rubber Penetration time:  $\geq 30$  min Material thickness:  $\geq 0.4$  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:**

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**

## SURF PROFESSIONAL LAUNDRY POWDER

	Method / remark
<b>Physical State:</b> Solid	
<b>Appearance:</b> Powder	
<b>Colour:</b> Opaque, White	
<b>Odour:</b> Perfumed	
<b>Odour threshold:</b> Not applicable	
<b>pH</b> Not applicable. (neat)	ISO 4316
<b>Dilution pH:</b> ≤ 11 (1%)	ISO 4316
<b>Melting point/freezing point (°C):</b> Not determined	Not relevant to classification of this product
<b>Initial boiling point and boiling range (°C):</b> Not determined	Not applicable to solids or gases
<b>Flammability (liquid):</b> Not applicable.	
<b>Flash point (°C):</b> ≈ .? °C	
<b>Sustained combustion:</b> Not applicable. ( <i>UN Manual of Tests and Criteria, section 32, L.2</i> )	
<b>Evaporation rate:</b> Not determined	Not relevant to classification of this product
<b>Flammability (solid, gas):</b> Not determined	
<b>Upper/lower flammability limit (%):</b> Not determined	
<b>Vapour pressure:</b> Not determined	
<b>Vapour density:</b> Not determined	Not relevant to classification of this product
<b>Relative density:</b> ≈ 0.72 (20 °C)	OECD 109 (EU A.3)
<b>Solubility in / Miscibility with Water:</b> Soluble	
<b>Partition coefficient: n-octanol/water</b> No information available. Substance data, partition coefficient n-octanol/water (log Kow): see subsection 12.3	
<b>Autoignition temperature:</b> Not determined	
<b>Decomposition temperature:</b> Not applicable.	
<b>Viscosity:</b> ≈ mPa.s (20 °C)	Not applicable to solids or gases
<b>Explosive properties:</b> Not explosive.	
<b>Oxidising properties:</b> Not oxidising	
<b>9.2 Other information</b>	
<b>Surface tension (N/m):</b> Not determined	
<b>Corrosion to metals:</b> Not determined	Not applicable to solids or gases

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No reactivity hazards known under normal storage and use conditions.

### 10.2 Chemical stability

Stable under normal storage and use conditions.

### 10.3 Possibility of hazardous reactions

No hazardous reactions known under normal storage and use conditions.

### 10.4 Conditions to avoid

None known under normal storage and use conditions.

### 10.5 Incompatible materials

Reacts with acids.

### 10.6 Hazardous decomposition products

None known under normal storage and use conditions.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

Mixture data:

#### Acute oral toxicity

LD50 Oral 11,287

**Species** Rat

**Method** Weight of evidence

#### Acute inhalation toxicity

LC50 (Vapour) 1000 (mg/l)

**Method** Weight of evidence

LC50 (Dust/Mist) 1000 (mg/l)

#### Relevant calculated ATE(s):

ATE - Oral (mg/kg): >5000

ATE - Inhalatory, mists (mg/l): 5.5

#### Skin irritation and corrosivity

**Result:** Skin irritant 2

**Method:** Bridging

#### Eye irritation and corrosivity

**Result:** Eye damage 1

**Method:** Bridging

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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 <sub>50</sub>	2800	Rat	Method not given	
sodium silicate	LD <sub>50</sub>	3400	Rat	Method not given	
sodium alkylbenzenesulphonate	LD <sub>50</sub>	1080	Rat	OECD 401 (EU B.1)	
Alcohols, C12-18, ethoxylated		1000	Rat		
sodium hypochlorite	LD <sub>50</sub>	1100	Rat	OECD 401 (EU B.1)	90

## Acute dermal toxicity

Ingredient(s)	Endpoint	Value (mg/kg)	Species	Method	Exposure time (h)
sodium carbonate	LD <sub>50</sub>	> 2000	Rabbit	Method not given	
sodium silicate	LD <sub>50</sub>	> 5000	Rat	Method not given	
sodium alkylbenzenesulphonate	LD <sub>50</sub>	> 2000	Rat	OECD 402 (EU B.3)	
Alcohols, C12-18, ethoxylated		> 2000			
sodium hypochlorite	LD <sub>50</sub>	> 20000	Rabbit	OECD 402 (EU B.3)	

## Acute inhalative toxicity

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
sodium carbonate	LC <sub>50</sub>	> 2.3 (dust)		Weight of evidence	2
sodium silicate	LC <sub>50</sub>	> 2.06	Rat	Method not given	
sodium alkylbenzenesulphonate		No data available			
Alcohols, C12-18, ethoxylated		> 5			
sodium hypochlorite	LC <sub>50</sub>	> 10.5 (vapour)	Rat	OECD 403 (EU B.2)	1

**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 silicate	Irritant		Method not given	
sodium alkylbenzenesulphonate	Irritant	Rabbit	OECD 404 (EU B.4)	
Alcohols, C12-18, ethoxylated	No data available			
sodium hypochlorite	Corrosive	Rabbit	OECD 404 (EU B.4)	

## Eye irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
sodium carbonate	Irritant	Rabbit	Method not given	
sodium silicate	Irritant		Method not given	
sodium alkylbenzenesulphonate	Corrosive	Rabbit	OECD 405 (EU B.5)	
Alcohols, C12-18, ethoxylated	No data available			
sodium hypochlorite	Severe damage	Rabbit	OECD 405 (EU B.5)	

## Respiratory tract irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
sodium carbonate	No data available			
sodium silicate	Irritating to respiratory tract		Method not given	
sodium alkylbenzenesulphonate	Not irritating to respiratory tract			
Alcohols, C12-18, ethoxylated	No data available			
sodium hypochlorite	Irritating to respiratory tract			

**Sensitisation**

## Sensitisation by skin contact

Ingredient(s)	Result	Species	Method	Exposure time (h)
sodium carbonate	Not sensitising		Method not given	
sodium silicate	Not sensitising		Method not given	
sodium alkylbenzenesulphonate	Not sensitising	Guinea pig	OECD 406 (EU B.6) / GPMT	
Alcohols, C12-18, ethoxylated	No data available			
sodium hypochlorite	Not sensitising	Guinea pig	OECD 406 (EU B.6) / Buehler test	

## Sensitisation by inhalation

Ingredient(s)	Result	Species	Method	Exposure time
sodium carbonate	No data available			
sodium silicate	No data available			
sodium alkylbenzenesulphonate	No data available			
Alcohols, C12-18, ethoxylated	No data available			

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sodium hypochlorite	Not sensitising			
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**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 silicate	No evidence for mutagenicity, negative test results		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	
Alcohols, C12-18, ethoxylated	No data available		No data available	
sodium hypochlorite	No evidence for mutagenicity	OECD 471 (EU B.12/13)	No evidence for mutagenicity, negative test results	OECD 474 (EU B.12)

## Carcinogenicity

Ingredient(s)	Effect
sodium carbonate	No evidence for carcinogenicity, weight-of-evidence
sodium silicate	No evidence for carcinogenicity, negative test results
sodium alkylbenzenesulphonate	No data available
Alcohols, C12-18, ethoxylated	No data available
sodium hypochlorite	No evidence for carcinogenicity, negative test results

## 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 silicate			No data available				No evidence for reproductive toxicity
sodium alkylbenzenesulphonate	NOAEL	Teratogenic effects	300	Rat	Non guideline test		No known significant effects or critical hazards
Alcohols, C12-18, ethoxylated			No data available				
sodium hypochlorite	NOAEL	Developmental toxicity Impaired fertility	5 (Cl)	Rat	OECD 414 (EU B.31), oral OECD 415 (EU B.34), oral		No evidence for reproductive toxicity

**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 silicate	NOAEL	> 159	Rat	Method not given		
sodium alkylbenzenesulphonate		No data available				
Alcohols, C12-18, ethoxylated		No data available				
sodium hypochlorite	NOAEL	50	Rat	OECD 408 (EU B.26)	90	

## 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 silicate		No data available				
sodium alkylbenzenesulphonate		No data available				
Alcohols, C12-18, ethoxylated		No data available				
sodium hypochlorite		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 silicate		No data available				
sodium alkylbenzenesulphonate		No data available				
Alcohols, C12-18, ethoxylated		No data available				
sodium hypochlorite		No data				

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		available			
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## 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 silicate			No data available					
sodium alkylbenzenesulphonate			No data available					
Alcohols, C12-18, ethoxylated			No data available					
sodium hypochlorite			No data available					

## STOT-single exposure

Ingredient(s)	Affected organ(s)
sodium carbonate	No data available
sodium silicate	No data available
sodium alkylbenzenesulphonate	No data available
Alcohols, C12-18, ethoxylated	No data available
sodium hypochlorite	Not applicable

## STOT-repeated exposure

Ingredient(s)	Affected organ(s)
sodium carbonate	No data available
sodium silicate	No data available
sodium alkylbenzenesulphonate	No data available
Alcohols, C12-18, ethoxylated	No data available
sodium hypochlorite	Not applicable

## 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 <sub>50</sub>	300	<i>Lepomis macrochirus</i>	Method not given	96
sodium silicate	LC <sub>50</sub>	260 - 310	<i>Oncorhynchus mykiss</i>	Method not given	96
sodium alkylbenzenesulphonate	LC <sub>50</sub>	1.67	<i>Fish</i>	EPA-OPPTS 850.1075	96
Alcohols, C12-18, ethoxylated		10-100 [Not a valid number]			
sodium hypochlorite	LC <sub>50</sub>	0.06	<i>Oncorhynchus mykiss</i>	Method not given	96

## Aquatic short-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
sodium carbonate	EC <sub>50</sub>	265	<i>Daphnia magna Straus</i>	Method not given	96
sodium silicate	EC <sub>50</sub>	1700	<i>Daphnia magna Straus</i>	Method not given	48
sodium alkylbenzenesulphonate	LC <sub>50</sub>	2.9	<i>Daphnia</i>	OECD 202 (EU C.2)	48
Alcohols, C12-18, ethoxylated		10-100 [Not a valid number]			
sodium hypochlorite	EC <sub>50</sub>	0.035	<i>Ceriodaphnia dubia</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		No data available			-
sodium silicate	EC <sub>50</sub>	207	<i>Desmodesmus subspicatus</i>	Method not given	72

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sodium alkylbenzenesulphonate	E <sub>b</sub> C <sub>50</sub>	47.3	Not specified	Non guideline test	72
Alcohols, C12-18, ethoxylated		10-100 [Not a valid number]			
sodium hypochlorite	NOEC	0.0021	Not specified	Method not given	168

## Aquatic short-term toxicity - marine species

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (days)
sodium carbonate		No data available			-
sodium silicate		No data available			-
sodium alkylbenzenesulphonate		No data available			
Alcohols, C12-18, ethoxylated		No data available			
sodium hypochlorite	EC <sub>50</sub>	0.026	<i>Crassostrea virginica</i>	Method not given	2

## Impact on sewage plants - toxicity to bacteria

Ingredient(s)	Endpoint	Value (mg/l)	Inoculum	Method	Exposure time
sodium carbonate		No data available			
sodium silicate		No data available			
sodium alkylbenzenesulphonate	EC <sub>50</sub>	550	<i>Bacteria</i>	OECD 209	3 hour(s)
Alcohols, C12-18, ethoxylated		No data available			
sodium hypochlorite		0.375	<i>Activated sludge</i>	Method not given	

## 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 silicate	NOEC	348	<i>Brachydanio rerio</i>	Method not given	96 hour(s)	
sodium alkylbenzenesulphonate	NOEC	0.23	<i>Oncorhynchus mykiss</i>	Method not given	72 day(s)	
Alcohols, C12-18, ethoxylated		No data available				
sodium hypochlorite	NOEC	0.04	<i>Menidia pelinsulae</i>	Method not given	96 hour(s)	

## Aquatic long-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
sodium carbonate		No data available				
sodium silicate		No data available				
sodium alkylbenzenesulphonate	NOEC	1.41	<i>Daphnia magna</i>	OECD 211		
Alcohols, C12-18, ethoxylated		No data available				
sodium hypochlorite	NOEC	0.007	<i>Crassostrea virginica</i>	Method not given	15 day(s)	

## 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			-	
sodium silicate		No data available			-	
sodium alkylbenzenesulphonate		No data available				
Alcohols, C12-18, ethoxylated		No data available				
sodium hypochlorite		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 silicate		No data available			-	



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sodium hypochlorite		No data available			-	
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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 silicate		No data available			-	
sodium hypochlorite		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 silicate		No data available			-	
sodium hypochlorite		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 silicate		No data available			-	
sodium hypochlorite		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 silicate		No data available			-	
sodium hypochlorite		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 hypochlorite	115 day(s)	Indirect photo-oxidation		

Abiotic degradation - hydrolysis, if available:

Ingredient(s)	Half-life time in fresh water	Method	Evaluation	Remark
sodium carbonate	No data available		Rapidly hydrolysible	

Abiotic degradation - other processes, if available:

**Biodegradation**

Ready biodegradability - aerobic conditions

Ingredient(s)	Inoculum	Analytical method	DT <sub>50</sub>	Method	Evaluation
sodium carbonate					Not applicable (inorganic substance)
sodium silicate					Not applicable (inorganic substance)
sodium alkylbenzenesulphonate	Activated sludge, aerobe	CO <sub>2</sub> production	85 % in 28 day(s)	OECD 301B	Readily biodegradable
Alcohols, C12-18, ethoxylated				OECD 301F	Readily biodegradable
sodium hypochlorite					Not applicable (inorganic substance)

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<sub>ow</sub>)

Ingredient(s)	Value	Method	Evaluation	Remark
sodium carbonate	No data available		No bioaccumulation expected	
sodium silicate	No data available		Low potential for bioaccumulation	
sodium alkylbenzenesulphonate	3.32	Method not given	Low potential for bioaccumulation	
Alcohols, C12-18, ethoxylated	-		No bioaccumulation expected	
sodium hypochlorite	-3.42	Method not given	No bioaccumulation expected	

## SURF PROFESSIONAL LAUNDRY POWDER

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## Bioconcentration factor (BCF)

Ingredient(s)	Value	Species	Method	Evaluation	Remark
sodium carbonate	No data available			No bioaccumulation expected	
sodium silicate	No data available				
sodium alkylbenzenesulphonate	2-1000		Method not given	High potential for bioaccumulation	
Alcohols, C12-18, ethoxylated	No data available				
sodium hypochlorite	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 silicate	No data available				
sodium alkylbenzenesulphonate	No data available				
Alcohols, C12-18, ethoxylated	No data available				
sodium hypochlorite	1.12				High potential for mobility in soil

## 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: 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

Environmentally hazardous: No

Marine pollutant: No

14.6 Special precautions for user: Non-dangerous goods

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code: The product is not transported in bulk tankers.

Non-dangerous goods

## Other relevant information:

Hazchem code: None allocated

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

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: MS32000503

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**SURF PROFESSIONAL LAUNDRY POWDER****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**