



Revision: 2019-07-17 **Version:** 01.0

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name: Surf Professional White

Surf is a registered trade mark and is used under licence of Unilever

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses:

AISE-P102 - Laundry detergent. Semi-automatic process AISE-C1 - Laundry regular (powder, liquid) for consumer use

Uses advised against: Uses other than those identified are not recommended

1.3 Details of the supplier of the safety data sheet

Diversey Europe Operations BV, Maarssenbroeksedijk 2, 3542DN Utrecht, The Netherlands

Contact details

Diversey Ltd

Weston Favell Centre, Northampton NN3 8PD, United Kingdom

Tel: 01604 405311, Fax: 01604 406809

Regulatory Email: customerservice.uk@diversey.com

1.4 Emergency telephone number

Seek medical advice (show the label or safety data sheet where possible)

For medical or environmental emergency only:

call 0800 052 0185

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Eye Irrit. 2 (H319)

2.2 Label elements



Signal word: Warning.

Hazard statements:

H319 - Causes serious eye irritation.

Precautionary statements:

P101 - If medical advice is needed, have product container or label at hand.

P102 - Keep out of reach of children.

2.3 Other hazards

No other hazards known. The product does not meet the criteria for PBT or vPvB in accordance with Regulation (EC) No 1907/2006, Annex xIII

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Ingredient(s)	EC number	CAS number	REACH number	Classification	Notes	Weight
						percent
sodium carbonate	207-838-8	497-19-8	01-2119485498-19	Eye Irrit. 2 (H319)		20-30
sodium dodecylbenzenesulphonate	246-680-4	25155-30-0	01-2119489428-22	Acute Tox. 4 (H302) Skin Irrit. 2 (H315) Eye Dam. 1 (H318) Aquatic Chronic 3		3-10

				(H412)	
sodium silicate	215-687-4	1344-09-8	01-2119448725-31	STOT SE 3 (H335)	3-10
				Skin Irrit. 2 (H315)	
				Eye Irrit. 2 (H319)	
sodium percarbonate	239-707-6	15630-89-4	01-2119457268-30	Ox. Sol. 2 (H272)	3-10
				Acute Tox. 4 (H302)	
				Eye Dam. 1 (H318)	
Alcohols, C12-15, ethoxylated	[4]	68131-39-5	[4]	Acute Tox. 4 (H302)	0.1-1
				Eye Dam. 1 (H318)	
				Aquatic Acute 1 (H400)	
				Aquatic Chronic 3	
				(H412)	

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

For the full text of the H and EUH phrases mentioned in this Section, see Section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

Inhalation: Get medical attention or advice if you feel unwell.

Skin contact: Wash skin with plenty of lukewarm, gently flowing water. If skin irritation occurs: Get medical advice

or attention.

Eye contact: Hold eyelids apart and flush eyes with plenty of lukewarm water for at least 15 minutes. Remove

contact lenses, if present and easy to do. Continue rinsing. If irritation occurs and persists, get

medical attention.

Ingestion: Rinse mouth. Immediately drink 1 glass of water. Never give anything by mouth to an unconscious

person. Get medical attention or advice if you feel unwell.

Self-protection of first aider: Consider personal protective equipment as indicated in subsection 8.2.

4.2 Most important symptoms and effects, both acute and delayed

Inhalation:

No known effects or symptoms in normal use.

Skin contact:

No known effects or symptoms in normal use.

Eye contact: Causes severe irritation.

Ingestion: No known effects or symptoms in normal use.

4.3 Indication of any immediate medical attention and special treatment needed

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

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.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

No special measures required.

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

Collect mechanically.

6.4 Reference to other sections

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

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Measures to prevent fire and explosions:

No special precautions required.

Measures required to protect the environment:

For environmental exposure controls see subsection 8.2.

Advices on general occupational hygiene:

Follow general hygiene considerations recognised as common good workplace practices. Keep away from food, drink and animal feeding stuffs. Keep out of reach of children. Do not mix with other products unless adviced by Diversey. Wash face, hands and any exposed skin thoroughly after handling. 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. Keep out of reach of children.

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:

Recommended monitoring procedures, if available:

Additional exposure limits under the conditions of use, if available:

DNEL/DMEL and PNEC values

Human exposure

DNEL oral exposure - Consumer (mg/kg bw)

Ingredient(s)	Short term - Local effects	Short term - Systemic effects	Long term - Local effects	Long term - Systemic effects
sodium carbonate	-	-	-	-
sodium dodecylbenzenesulphonate	No data available	No data available	No data available	13
sodium silicate	-	-	-	0.8
sodium percarbonate	-	-	-	-
Alcohols, C12-15, ethoxylated	No data available	No data available	No data available	No data available

DNEL dermal exposure - Worker

Ingredient(s)	Short term - Local effects	Short term - Systemic effects (mg/kg bw)	Long term - Local effects	Long term - Systemic effects (mg/kg bw)
sodium carbonate		-	No data available	-
sodium dodecylbenzenesulphonate	No data available	No data available	No data available	No data available
sodium silicate	No data available	-	No data available	1.59
sodium percarbonate	12.8 mg/cm ² skin	-	12.8 mg/cm ² skin	-
Alcohols, C12-15, ethoxylated	No data available	No data available	No data available	No data available

DNEL dermal exposure - Consumer

Ingredient(s)	Short term - Local	Short term - Systemic	Long term - Local	Long term - Systemic
	effects	effects (mg/kg bw)	effects	effects (mg/kg bw)
sodium carbonate	No data available	-	No data available	-
sodium dodecylbenzenesulphonate	No data available	No data available	No data available	No data available
sodium silicate	No data available	-	No data available	0.8
sodium percarbonate	6.4 mg/cm ² skin	-	6.4 mg/cm ² skin	-
Alcohols, C12-15, ethoxylated	No data available	No data available	No data available	No data available

DNEL inhalatory exposure - Worker (mg/m³)

DNLL IIIIlalatory exposure - Worker (Ing/III-)				
Ingredient(s)	Short term - Local effects	Short term - Systemic effects	Long term - Local effects	Long term - Systemic effects
sodium carbonate	-	-	10	-
sodium dodecylbenzenesulphonate	No data available	No data available	No data available	52
sodium silicate	-	-	-	5.61
sodium percarbonate	-	-	5	-
Alcohols C12-15 ethoxylated	No data available	No data available	No data available	No data available

DNEL inhalatory exposure - Consumer (mg/m³)

Ingredient(s)	Short term - Local effects	Short term - Systemic effects	Long term - Local effects	Long term - Systemic effects
sodium carbonate	10	-	-	-
sodium dodecylbenzenesulphonate	No data available	No data available	No data available	No data available
sodium silicate	-	-	-	1.38
sodium percarbonate	-	-	-	-
Alcohols, C12-15, ethoxylated	No data available	No data available	No data available	No data available

Environmental exposure

Environmental exposure - PNEC

Ingredient(s)	Surface water, fresh	Surface water, marine	Intermittent (mg/l)	Sewage treatment
	(mg/l)	(mg/l)		plant (mg/l)
sodium carbonate	1	-	-	•
sodium dodecylbenzenesulphonate	No data available	No data available	No data available	No data available
sodium silicate	7.5	1	7.5	348
sodium percarbonate	0.035	0.035	0.035	16.24
Alcohols, C12-15, ethoxylated	No data available	No data available	No data available	No data available

Environmental exposure - PNEC, continued

Ingredient(s)	Sediment, freshwater (mg/kg)	Sediment, marine (mg/kg)	Soil (mg/kg)	Air (mg/m³)
sodium carbonate	-	-	•	•
sodium dodecylbenzenesulphonate	No data available	No data available	No data available	No data available
sodium silicate	-	-	-	-
sodium percarbonate	-	-	-	-
Alcohols, C12-15, ethoxylated	No data available	No data available	No data available	No data 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: No special requirements under normal use conditions.

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

Personal protective equipment

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

Recommended safety measures for handling the diluted product:

Recommended maximum concentration (%): 1

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

Personal protective equipment

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

Information in this section refers to the product, unless it is specifically stated that substance data is listed

Method / remark

Physical State: Solid Colour: NA White

Odour: To Match Standard (TMS) Slightly perfumed

Odour threshold: Not applicable

pH: Not applicable.

Dilution pH: ≈ 11 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

Substance data, boiling point

Ingredient(s)	Value (°C)	Method	Atmospheric pressure (hPa)
sodium carbonate	1600	Method not given	1013
sodium dodecylbenzenesulphonate	No data available		

sodium silicate	> 100	Method not given	
sodium percarbonate	Product decomposes before boiling		
Alcohols, C12-15, ethoxylated	No data available		

Method / remark

Flammability (liquid): Not applicable. Flash point (°C): Not applicable. Sustained combustion: Not applicable. (UN Manual of Tests and Criteria, section 32, L.2)

closed cup

Evaporation rate: Not determined

Not relevant to classification of this product

Flammability (solid, gas): Not flammable

See substance data

Upper/lower flammability limit (%): Not determined

Substance data, flammability or explosive limits, if available:

Method / remark

See substance data

Substance data, vapour pressure

Vapour pressure: Not determined

Ingredient(s)	Value (Pa)	Method	Temperature (°C)
sodium carbonate	Negligible		
sodium dodecylbenzenesulphonate	No data available		
sodium silicate	No data available		
sodium percarbonate	Negligible		
Alcohols, C12-15, ethoxylated	No data available		

Method / remark

Not relevant to classification of this product

OECD 109 (EU A.3)

Vapour density: Not determined Relative density: $\approx 0.7 (20 \,^{\circ}\text{C})$

Solubility in / Miscibility with Water: Soluble

Substance data, solubility in water

Ingredient(s)	Value (g/l)	Method	Temperature (°C)
sodium carbonate	210-215	Method not given	20
sodium dodecylbenzenesulphonate	No data available		
sodium silicate	Soluble	Method not given	20
sodium percarbonate	140	Method not given	20
Alcohols, C12-15, ethoxylated	No data available		

Substance data, partition coefficient n-octanol/water (log Kow): see subsection 12.3

Method / remark

Autoignition temperature: Not determined Decomposition temperature: Not applicable.

Viscosity: Not determined

Explosive properties: Not explosive. Oxidising properties: Not oxidising.

Not applicable to solids or gases

9.2 Other information

Surface tension (N/m): Not determined

Corrosion to metals: Not determined

Not relevant to classification of this product

Weight of evidence

Substance data, dissociation constant, if available:

Ingredient(s)	Value	Method	Temperature (°C)
sodium silicate	9.9 - 12 (pKa)	Method not given	

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

Skin irritation and corrosivity

Result: Not corrosive or irritant Method: Bridging

Eye irritation and corrosivity

Result: Eye irritant 2 Method: Bridging

Substance data, where relevant and available, are listed below:.

Acute toxicity

Acute oral toxicity

Ingredient(s)	Endpoint	Value (mg/kg)	Species	Method	Exposure time (h)
sodium carbonate	LD 50	2800	Rat	Method not given	
sodium dodecylbenzenesulphonate	LD 50	650	Rat	Non guideline test Weight of evidence	
sodium silicate	LD 50	3400	Rat	Method not given	
sodium percarbonate	LD 50	1034	Rat	Method not given	
Alcohols, C12-15, ethoxylated	LD 50	>300 - <=2000	Rat	Method not given	

Acute dermal toxicity

Ingredient(s)	Endpoint	Value (mg/kg)	Species	Method	Exposure time (h)
sodium carbonate	LD 50	> 2000	Rabbit	Method not given	
sodium dodecylbenzenesulphonate		No data available			
sodium silicate	LD 50	> 5000	Rat	Method not given	
sodium percarbonate	LD 50	> 2000	Rabbit	OECD 402 (EU B.3)	
Alcohols, C12-15, ethoxylated	LD 50	>300 - <=2000	Rabbit	Method not given	

Acute inhalative toxicity

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
sodium carbonate	LC 50	> 2.3 (dust)		Weight of evidence	2
sodium dodecylbenzenesulphonate		No data available			
sodium silicate		No mortality observed	Rat	Non guideline test	4
sodium percarbonate		No data available			
Alcohols, C12-15, ethoxylated		No data available			

Irritation and corrosivity

Skin irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
sodium carbonate	Not irritant	Rabbit	OECD 404 (EU B.4)	
sodium dodecylbenzenesulphonate	No data available			
sodium silicate	Irritant		Method not given	
sodium percarbonate	Not irritant	Rabbit	Method not given	
Alcohols, C12-15, ethoxylated	Mild irritant			

Eye irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
sodium carbonate	Irritant	Rabbit	Method not given	
sodium dodecylbenzenesulphonate	No data available			
sodium silicate	Irritant		Method not given	
sodium percarbonate	Severe damage	Rabbit	EPA OPP 81-4	

Alcohols, C12-15, ethoxylated	Severe damage		

Respiratory tract irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
sodium carbonate	No data available			
sodium dodecylbenzenesulphonate	No data available			
sodium silicate	Irritating to respiratory tract		Method not given	
sodium percarbonate	Irritating to respiratory tract	Mouse	Method not given	
Alcohols, C12-15, ethoxylated	No data available			

Sensitisation Sensitisation by skin contact

Sensitisation by skin contact				
Ingredient(s)	Result	Species	Method	Exposure time (h)
sodium carbonate	Not sensitising		Method not given	
sodium dodecylbenzenesulphonate	No data available			
sodium silicate	Not sensitising		Method not given	
sodium percarbonate	Not sensitising	Guinea pig	OECD 406 (EU B.6) / Buehler test	
Alcohols, C12-15, ethoxylated	No data available			

Sensitisation by inhalation

Ingredient(s)	Result	Species	Method	Exposure time
sodium carbonate	No data available			
sodium dodecylbenzenesulphonate	No data available			
sodium silicate	No data available			
sodium percarbonate	No data available			
Alcohols, C12-15, ethoxylated	No data available			

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction) Mutagenicity

Ingredient(s)	Result (in-vitro)	Method (in-vitro)	Result (in-vivo)	Method (in-vivo)
sodium carbonate	No data available		No data available	
sodium dodecylbenzenesulphonate	No data available		No data available	
sodium silicate	No evidence for mutagenicity, negative test results		No data available	
sodium percarbonate	No data available		No data available	
Alcohols, C12-15, ethoxylated	No data available		No data available	

Carcinogenicity

Ingredient(s)	Effect
sodium carbonate	No evidence for carcinogenicity, weight-of-evidence
sodium dodecylbenzenesulphonate	No data available
sodium silicate	No evidence for carcinogenicity, negative test results
sodium percarbonate	No data available
Alcohols, C12-15, ethoxylated	No data available

Toxicity for reproduction							
Ingredient(s)	Endpoint	Specific effect	Value (mg/kg bw/d)	Species	Method	Exposure time	Remarks and other effects reported
sodium carbonate			No data available				
sodium dodecylbenzenesulpho nate			No data available				
sodium silicate			No data available				No evidence for reproductive toxicity
sodium percarbonate			No data available				
Alcohols, C12-15, ethoxylated			No data available				

Repeated dose toxicity
Sub-acute or sub-chronic oral toxicity

Ingredient(s)	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure time (days)	Specific effects and organs affected
sodium carbonate		No data available				
sodium dodecylbenzenesulphonate		No data available				
sodium silicate	NOAEL	> 159	Rat	Method not given	180	No effects observed

sodium percarbonate	No data available		
Alcohols, C12-15, ethoxylated	No data		
	available		

Sub-chronic dermal toxicity

Ingredient(s)	Endpoint	Value	Species	Method	Exposure	Specific effects and organs
		(mg/kg bw/d)			time (days)	affected
sodium carbonate		No data				
		available				
sodium dodecylbenzenesulphonate		No data				
		available				
sodium silicate		No data				
		available				
sodium percarbonate		No data				
		available				
Alcohols, C12-15, ethoxylated		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 dodecylbenzenesulphonate		No data available				
sodium silicate		No data available				
sodium percarbonate		No data available				
Alcohols, C12-15, ethoxylated		No data available				

Chronic toxicity

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 dodecylbenzenesulpho nate			No data available					
sodium silicate			No data available					
sodium percarbonate			No data available					
Alcohols, C12-15, ethoxylated			No data available					

STOT-single exposure

Ingredient(s)	Affected organ(s)
sodium carbonate	No data available
sodium dodecylbenzenesulphonate	No data available
sodium silicate	No data available
sodium percarbonate	No data available
Alcohols, C12-15, ethoxylated	No data available

STOT-repeated exposure

Ingredient(s)	Affected organ(s)
sodium carbonate	No data available
sodium dodecylbenzenesulphonate	No data available
sodium silicate	Not applicable
sodium percarbonate	No data available
Alcohols, C12-15, ethoxylated	No data available

Aspiration hazard

Substances with an aspiration hazard (H304), if any, are listed in section 3. If relevant, see section 9 for dynamic viscosity and relative density of the product.

Potential adverse health effects and symptoms

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

SECTION 12: Ecological information

12.1 Toxicity

No data is available on the mixture.

Substance data, where relevant and available, are listed below:

Aquatic short-term toxicity Aquatic short-term toxicity - fish

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
sodium carbonate	LC 50	300	Lepomis macrochirus	Method not given	96
sodium dodecylbenzenesulphonate		No data available			
sodium silicate	LC 50	260 - 310	Oncorhynchus mykiss	Method not given	96
sodium percarbonate	LC 50	70.7	Pimephales promelas	Method not given	96
Alcohols, C12-15, ethoxylated	LC 50	10	Fish	Method not given	

Aquatic short-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
sodium carbonate	EC 50	265	Daphnia magna Straus	Method not given	96
sodium dodecylbenzenesulphonate		No data available			
sodium silicate	EC 50	1700	Daphnia magna Straus	OECD 202, static	48
sodium percarbonate	EC 50	4.9	Daphnia pulex	Method not given	48
Alcohols, C12-15, ethoxylated	EC 50	10		Method not given	

Aquatic short-term toxicity - algae

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
sodium carbonate		No data available			-
sodium dodecylbenzenesulphonate		No data available		Weight of evidence	
sodium silicate	EC 50	207	Desmodesmus subspicatus	DIN 38412, Part 9	72
sodium percarbonate		No data available			-
Alcohols, C12-15, ethoxylated	EC 50	10		Method not given	

Aquatic short-term toxicity - marine species

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (days)
sodium carbonate		No data available			-
sodium dodecylbenzenesulphonate		No data available			
sodium silicate		No data available			-
sodium percarbonate		No data available			-
Alcohols, C12-15, ethoxylated		No data available			

Impact on sewage plants - toxicity to bacteria

Ingredient(s)	Endpoint	Value (mg/l)	Inoculum	Method	Exposure time
sodium carbonate		No data available			
sodium dodecylbenzenesulphonate		No data available			
sodium silicate		No data available			
sodium percarbonate	EC 50	466	Activated sludge	OECD 209	0.5 hour(s)
Alcohols, C12-15, ethoxylated		No data available			

Aquatic long-term toxicity
Aquatic long-term toxicity - fish

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
sodium carbonate		No data available				
sodium dodecylbenzenesulphonate		No data available				
sodium silicate	NOEC	348	Brachydanio rerio	Method not given	96 hour(s)	
sodium percarbonate	NOEC	7.4	Pimephales	Method not	96 hour(s)	

			promelas	given	
Alcohols, C12-15, ethoxylated	NOEC	> 0.1 - <= 1.0		Method not given	

Aquatic long-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
sodium carbonate		No data available				
sodium dodecylbenzenesulphonate		No data available				
sodium silicate		No data available				
sodium percarbonate	NOEC	2	Daphnia pulex	Method not given	48 hour(s)	
Alcohols, C12-15, ethoxylated	NOEC	> 0.1 - <= 1.0		Method not given		

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 dodecylbenzenesulphonate		No data available				
sodium silicate		No data available			-	
sodium percarbonate		No data available			-	
Alcohols, C12-15, ethoxylated	EC 50	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			-	
sodium percarbonate		No data available			-	

Terrestrial toxicity - plants, if available:

refreetial textory plante, il available.						
Ingredient(s)	Endpoint	Value	Species	Method	Exposure	Effects observed
		(mg/kg dw			time (days)	
		soil)				
sodium carbonate		No data			-	
		available				
sodium silicate		No data			-	
		available				
sodium percarbonate		No data			-	
·		available				

Terrestrial toxicity - birds, if available:

Ingredient(s)	Endpoint	Value	Species	Method	Exposure time (days)	Effects observed
P 1		NI L			unie (uays)	
sodium carbonate		No data			-	
		available				
sodium silicate		No data			-	
		available				
sodium percarbonate		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 percarbonate		No data available			-	

Terrestrial toxicity - soil bacteria, if available:

remotinal territory con pactoria, il avanabie:						
Ingredient(s)	Endpoint	Value	Species	Method	Exposure	Effects observed
		(mg/kg dw			time (days)	
		soil)				

sodium carbonate	No data	-	
	available		
sodium silicate	No data	-	
	available		
sodium percarbonate	No data	-	
· ·	available		

12.2 Persistence and degradability

Abiotic degradation
Abiotic degradation - photodegradation in air, if available:

nerotto dogradation priotodogradation in any il availabion							
Ingredient(s)	Half-life time	Method	Evaluation	Remark			
sodium percarbonate	NA	Method not given					

Abiotic degradation - hydrolysis, if available:

Ingredient(s)	Half-life time in fresh	Method Evaluation		Remark
	water			
sodium carbonate	No data available		Rapidly hydrolysible	
sodium percarbonate	< 1 day(s)	Method not given	Hydrolysible	

Abiotic degradation - other processes, if available:

Ingredient(s)	Inoculum	Analytical method	DT 50	Method	Evaluation
sodium carbonate					Not applicable (inorganic substance)
sodium dodecylbenzenesulphonate				OECD 301E	Readily biodegradable
sodium silicate					Not applicable (inorganic substance)
sodium percarbonate					Not applicable (inorganic substance)
Alcohols, C12-15, ethoxylated				OECD 301B	Readily biodegradable

Ready biodegradability - anaerobic and marine conditions, if available:

Degradation in relevant environmental compartments, if available:

12.3 Bioaccumulative potentialPartition coefficient n-octanol/water (log Kow)

Ingredient(s)	Value	Method	Evaluation	Remark
sodium carbonate	No data available		No bioaccumulation expected	
sodium dodecylbenzenesulphonate	No data available			
sodium silicate	No data available		Not relevant, does not bioaccumulate	
sodium percarbonate	No data available			
Alcohols, C12-15, ethoxylated	No data available			

Bioconcentration factor (BCF)

Ingredient(s)	Value	Species	Method	Evaluation	Remark
sodium carbonate	No data available			No bioaccumulation expected	
sodium dodecylbenzenesulpho nate	No data available				
sodium silicate	No data available				
sodium percarbonate	No data available				
Alcohols, C12-15, ethoxylated	No data available				

12.4 Mobility in soil

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 dodecylbenzenesulphonate	No data available				
sodium silicate	No data available				
sodium percarbonate	No data available				High potential for mobility in soil
Alcohols, C12-15, ethoxylated	No data available				

12.5 Results of PBT and vPvB assessment

Substances that fulfill the criteria for PBT/vPvB, if any, are listed in section 3.

12.6 Other adverse effects

No other adverse effects known.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

The concentrated contents or contaminated packaging should be disposed of by a certified handler Waste from residues / unused products: 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.

European Waste Catalogue: 20 01 29* - detergents containing dangerous substances.

Empty packaging

Recommendation: Dispose of observing national or local regulations.

SECTION 14: Transport information

Land transport (ADR/RID), Sea transport (IMDG), Air transport (ICAO-TI / IATA-DGR)

14.1 UN number: Non-dangerous goods

14.2 UN proper shipping name: Non-dangerous goods 14.3 Transport hazard class(es): Non-dangerous goods

14.4 Packing group: Non-dangerous goods

14.5 Environmental hazards: Non-dangerous goods 14.6 Special precautions for user: Non-dangerous goods

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code: Non-dangerous goods

SECTION 15: Regulatory information

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

EU regulations:

- · Regulation (EC) No. 1907/2006 REACH
- Regulation (EC) No 1272/2008 CLP
- Regulation (EC) No. 648/2004 Detergents regulation

Authorisations or restrictions (Regulation (EC) No 1907/2006, Title VII respectively Title VIII): Not applicable.

UFI: H8SN-U00X-Y00H-G37W

Ingredients according to EC Detergents Regulation 648/2004

5 - 15 % non-ionic surfactants, oxygen-based bleaching agents, zeolites, polycarboxylates, soap < 5 %

perfumes, optical brighteners, enzymes, Butylphenyl Methylpropional

The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No. 648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

15.2 Chemical safety assessment

A chemical safety assessment has not been carried out on the mixture

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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The classification of the mixture is in general based on calculation methods using substance data, as required by Regulation (EC) No 1272/2008. If for certain classifications data on the mixture is available or for example bridging principles or weight of evidence can be used for classification, this will be indicated in the relevant sections of the Safety Data Sheet. See section 9 for physical chemical properties, section 11 for toxicological information and section 12 for ecological information.

Full text of the H and EUH phrases mentioned in section 3:

- · H272 May intensify fire; oxidiser.
- · H302 Harmful if swallowed.
- H303 May be harmful if swallowed.
- · H315 Causes skin irritation.
- H318 Causes serious eye damage. H319 - Causes serious eve irritation
- · H335 May cause respiratory irritation.
- H400 Very toxic to aquatic life.
- H412 Harmful to aquatic life with long lasting effects.

Abbreviations and acronyms:

- AISE The international Association for Soaps, Detergents and Maintenance Products
- DNEL Derived No Effect Limit

- EUH CLP Specific hazard statement
 PBT Persistent, Bioaccumulative and Toxic
 PNEC Predicted No Effect Concentration
 REACH number REACH registration number, without supplier specific part
 vPvB very Persistent and very Bioaccumulative
 ATE Acute Toxicity Estimate

- ATE Acute Toxicity Estimate
 LD50 Lethal Dose, 50% / Median Lethal dose

- LC50 Lethal Concentration, 50% / Median Lethal Concentration
 EC50 Lethal Concentration, 50% / Median Lethal Concentration
 EC50 effective concentration, 50%
 NOEL No observed effect level
 NOAEL No observed adverse effect level
 OECD Organization for Economic Cooperation and Development

End of Safety Data Sheet