



According to Regulation (EC) No 1907/2006

Persil Professional Hygiene

Revision: 2018-01-25 Version: 05.1

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

1.1 Product identifier

Trade name: Persil Professional Hygiene

Persil 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:

For professional use only.

AISE-P102 - Laundry detergent. Semi-automatic process

AISE-P103 - Laundry detergent. Manual process

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

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Diversey Ltd

Weston Favell Centre, Northampton NN3 8PD, United Kingdom

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Regulatory Email: customerservice.uk@diversey.com

1.4 Emergency telephone number

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.

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 percarbonate	239-707-6	15630-89-4	01-2119457268-30	Ox. Sol. 2 (H272) Acute Tox. 4 (H302) Eye Dam. 1 (H318)		10-20
sodium alkylbenzenesulphonate	290-656-6	90194-45-9	[1]	Acute Tox. 4 (H302) Skin Irrit. 2 (H315)		3-10

				Eye Dam. 1 (H318)	
alkyl alcohol ethoxylate	Polymer*	69011-36-5	[4]	Acute Tox. 4 (H302)	1-3
				Eye Dam. 1 (H318)	
alkyl alcohol ethoxylate	931-138-8	69011-36-5	[4]	Eye Dam. 1 (H318)	1-3
disodium disilicate	215-687-4	1344-09-8	01-2119448725-31	STOT SE 3 (H335)	1-3
				Skin Irrit. 2 (H315) Eve Dam. 1 (H318)	

^{*} Polymer.

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

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

- [1] Exempted: ionic mixture. See Regulation (EC) No 1907/2006, Annex V, paragraph 3 and 4. This salt is potentially present, based on calculation, and included for classification and labelling purposes only. Each starting material of the ionic mixture is registered, as required.
- [2] Exempted: included in Annex IV of Regulation (EC) No 1907/2006. [3] Exempted: Annex V of Regulation (EC) No 1907/2006.
- [4] Exempted: polymer. See Article 2(9) of Regulation (EC) No 1907/2006.

SECTION 4: First aid measures

4.1 Description of first aid measures

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

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

or attention.

Eye contact: Immediately rinse eyes cautiously with lukewarm water for several minutes. Remove contact lenses,

if present and easy to do. Continue rinsing. If irritation occurs and persists, get medical attention.

Immediately drink 1 glass of water. Get medical attention or advice if you feel unwell. Ingestion:

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:

Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs. Do not mix with

other products unless adviced by Diversey. Wash hands before breaks and at the end of workday. Wash face, hands and any exposed skin thoroughly after handling. Take off immediately all contaminated clothing. Use personal protective equipment as required. Use only with adequate ventilation.

7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local and national regulations. Keep only in original container. Store in a closed container. 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 percarbonate	-	-	-	-
sodium alkylbenzenesulphonate	No data available	No data available	No data available	No data available
alkyl alcohol ethoxylate	-	-	-	-
alkyl alcohol ethoxylate	-	-	-	-
disodium disilicate	-	-	<u>-</u> -	0.8

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	-	No data available	-
sodium percarbonate	12.8 mg/cm ² skin	-	12.8 mg/cm ² skin	-
sodium alkylbenzenesulphonate	No data available	No data available	No data available	No data available
alkyl alcohol ethoxylate	-	-	-	-
alkyl alcohol ethoxylate	-	-	-	-
disodium disilicate	No data available	-	No data available	1.59

DNEL dermal exposure - Consumer

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	-	No data available	-
sodium percarbonate	6.4 mg/cm ² skin	-	6.4 mg/cm ² skin	-
sodium alkylbenzenesulphonate	No data available	No data available	No data available	No data available
alkyl alcohol ethoxylate	-	-	-	-
alkyl alcohol ethoxylate	-	-	-	-
disodium disilicate	No data available	-	No data available	0.8

DNEL inhalatory exposure - Worker (mg/m³)

Ingredient(s)	Short term - Local effects	Short term - Systemic effects	Long term - Local effects	Long term - Systemic effects
sodium carbonate	-	-	10	-
sodium percarbonate	-	-	5	-
sodium alkylbenzenesulphonate	No data available	No data available	No data available	No data available
alkyl alcohol ethoxylate	-	-	-	No data available
alkyl alcohol ethoxylate	-	-	-	-
disodium disilicate	-	-	-	5.61

DNEL inhalatory exposure - Consumer (mg/m³)

Ingredient(s)	Short term - Local Short term - Systemic Long term - Local I		Long term - Systemic	
	effects	effects	effects	effects
sodium carbonate	10	-	-	-
sodium percarbonate	•	-	-	-
sodium alkylbenzenesulphonate	No data available	No data available	No data available	No data available
alkyl alcohol ethoxylate	No data available	No data available	-	-

alkyl alcohol ethoxylate	-	-	-	-
disodium disilicate	-	-	-	1.38

Environmental exposure

Environmental exposure - PNEC

Ingredient(s)	Surface water, fresh (mg/l)	Surface water, marine (mg/l)	Intermittent (mg/l)	Sewage treatment plant (mg/l)
sodium carbonate	-	-	-	-
sodium percarbonate	0.035	0.035	0.035	16.24
sodium alkylbenzenesulphonate	No data available	No data available	No data available	No data available
alkyl alcohol ethoxylate	-	-	-	-
alkyl alcohol ethoxylate	-	-	-	-
disodium disilicate	7.5	1	7.5	348

Environmental exposure - PNEC, continued

Ingredient(s)	Sediment, freshwater (mg/kg)	Sediment, marine (mg/kg)	Soil (mg/kg)	Air (mg/m³)
sodium carbonate	-	-	-	-
sodium percarbonate	-	-	-	-
sodium alkylbenzenesulphonate	No data available	No data available	No data available	No data available
alkyl alcohol ethoxylate	-	-	-	-
alkyl alcohol ethoxylate	-	-	-	-
disodium disilicate	-	-	-	-

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: Rinse and dry hands after use. For prolonged contact protection for the skin may be necessary.

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 <u>diluted</u> product:

Recommended maximum concentration (%): 2

Appropriate engineering controls:

Appropriate organisational controls:

No special requirements under normal use conditions.

No special requirements under normal use conditions.

Personal protective equipment

Eye / face protection: Safety glasses are not normally required. However, their use is recommended in those cases

where splashes may occur when handling the product.

Hand protection: Rinse and dry hands after use. For prolonged contact protection for the skin may be necessary.

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

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

Method / remark

Physical State: Solid
Colour: from White to Blue
Odour: Slightly perfumed
Odour threshold: Not applicable

pH:

Dilution pH: ≈ 11 (1%)

Melting point/freezing point (°C): Not determined Initial boiling point and boiling range (°C): Not determined

Not relevant to classification of this product

Substance data, boiling point

Ingredient(s)	Value (°C)	Method	Atmospheric pressure (hPa)
sodium carbonate	1600	Method not given	1013
sodium percarbonate	Product decomposes before boiling		
sodium alkylbenzenesulphonate	No data available		
alkyl alcohol ethoxylate	> 200	Method not given	
alkyl alcohol ethoxylate	No data available		
disodium disilicate	> 100	Method not given	

Method / remark

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

Evaporation rate: Not determined

Flammability (solid, gas): Not determined

Upper/lower flammability limit (%): Not determined

Substance data, flammability or explosive limits, if available:

Method / remark

Vapour pressure: Not determined

Substance data, vapour pressure

Ingredient(s)	Value (Pa)	Method	Temperature (°C)
sodium carbonate	Negligible		
sodium percarbonate	Negligible		
sodium alkylbenzenesulphonate	No data available		
alkyl alcohol ethoxylate	Negligible	Method not given	20-25
alkyl alcohol ethoxylate	< 100		
disodium disilicate	No data available		

Method / remark

Vapour density: Not determined Relative density: ≈ 0.64 (20 °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 percarbonate	140 Me		20
sodium alkylbenzenesulphonate	No data available		
alkyl alcohol ethoxylate	Soluble	Method not given	20
alkyl alcohol ethoxylate	Partly soluble	Method not given	20
disodium disilicate	Soluble	Method not given	20

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.

9.2 Other information

Surface tension (N/m): Not determined

Not relevant to classification of this product
Corrosion to metals: Not determined

Not applicable to solids or gases

Substance data, dissociation constant, if available:

Ingredient(s)	Value	Method	Temperature (°C)
disodium disilicate	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

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:.

Relevant calculated ATE(s):

ATE - Oral (mg/kg): >2000

Eye irritation and corrosivity

Result: Eye irritant 2 Method: Weight of evidence

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

Acute toxicity

Acute oral toxicity

Ingredient(s)	Endpoint	Value (mg/kg)	Species	Method	Exposure time (h)
sodium carbonate	LD 50	2800	Rat	Method not given	
sodium percarbonate	LD 50	1034	Rat	Method not given	
sodium alkylbenzenesulphonate		No data available			
alkyl alcohol ethoxylate	LD 50	> 300 - 2000	Rat	OECD 423 (EU B.1 tris)	
alkyl alcohol ethoxylate	LD 50	> 2000	Rat	OECD 423 (EU B.1 tris)	
disodium disilicate	LD 50	3400	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 percarbonate	LD 50	> 2000	Rabbit	OECD 402 (EU B.3)	
sodium alkylbenzenesulphonate		No data available			
alkyl alcohol ethoxylate	LD 50	> 2000	Rabbit	Method not given	
alkyl alcohol ethoxylate	LD 50	> 2000	Rat		
disodium disilicate	LD 50	> 5000	Rat	Method not given	

Acute inhalative toxicity

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
sodium carbonate	LC 50	2.3 (dust)	Rat	OECD 403 (EU B.2)	2
sodium percarbonate		No data available			
sodium alkylbenzenesulphonate		No data available			
alkyl alcohol ethoxylate		No data available			
alkyl alcohol ethoxylate		No data available			
disodium disilicate		No mortality observed	Rat	Non guideline test	

Irritation and corrosivity

Skin irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
sodium carbonate	Not irritant	Rabbit	Method not given	

sodium percarbonate	Not irritant	Rabbit	Method not given	
sodium alkylbenzenesulphonate	No data available			
alkyl alcohol ethoxylate	Not irritant	Rabbit	OECD 404 (EU B.4)	
alkyl alcohol ethoxylate	Not irritant	Rabbit	Weight of evidence Non guideline test	
disodium disilicate	Irritant		Method not given	

Eye irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
sodium carbonate	Irritant	Rabbit	Method not given	
sodium percarbonate	Severe damage	Rabbit	EPA OPP 81-4	
sodium alkylbenzenesulphonate	No data available			
alkyl alcohol ethoxylate	Severe damage	Rabbit	Method not given	
alkyl alcohol ethoxylate	Severe damage	Rabbit	Weight of evidence Non guideline test	
disodium disilicate	Severe damage		Method not given	

Respiratory tract irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
sodium carbonate	No data available			
sodium percarbonate	Irritating to respiratory tract	Mouse	Method not given	
sodium alkylbenzenesulphonate	No data available			
alkyl alcohol ethoxylate	No data available			
alkyl alcohol ethoxylate	No data available			
disodium disilicate	Irritating to respiratory tract		Method not given	

Sensitisation Sensitisation by skin contact

Ingredient(s)	Result	Species	Method	Exposure time (h)
sodium carbonate	Not sensitising		Method not given	
sodium percarbonate	Not sensitising	Guinea pig	OECD 406 (EU B.6) / Buehler test	
sodium alkylbenzenesulphonate	No data available			
alkyl alcohol ethoxylate	Not sensitising	Guinea pig	Method not given	
alkyl alcohol ethoxylate	Not sensitising	Guinea pig		
disodium disilicate	Not sensitising		Method not given	

Sensitisation by inhalation

Ingredient(s)	Result	Species	Method	Exposure time
sodium carbonate	No data available			
sodium percarbonate	No data available			
sodium alkylbenzenesulphonate	No data available			
alkyl alcohol ethoxylate	No data available			
alkyl alcohol ethoxylate	No data available			
disodium disilicate	No data available			

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Ingredient(s)	Result (in-vitro)	Method	Result (in-vivo)	Method
- '		(in-vitro)		(in-vivo)
sodium carbonate	No data available		No data available	
sodium percarbonate	No data available		No data available	
sodium alkylbenzenesulphonate	No data available		No data available	
alkyl alcohol ethoxylate	No evidence of genotoxicity, negative test results		No evidence of genotoxicity, negative test results	Method not given
alkyl alcohol ethoxylate	No evidence for mutagenicity	,	No evidence for mutagenicity, negative test results	Weight of evidence
disodium disilicate	No evidence for mutagenicity, negative test results		No data available	

Carcinogenicity

Ingredient(s)	Effect
sodium carbonate	No evidence for carcinogenicity, weight-of-evidence
sodium percarbonate	No data available
sodium alkylbenzenesulphonate	No data available
alkyl alcohol ethoxylate	No evidence for carcinogenicity, weight-of-evidence
alkyl alcohol ethoxylate	No evidence for carcinogenicity, weight-of-evidence
disodium disilicate	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 percarbonate			No data available				
sodium alkylbenzenesulphonat e			No data available				
alkyl alcohol ethoxylate	NOAEL	Teratogenic effects	> 50	Rat	Not known		No known significant effects or critical hazards
alkyl alcohol ethoxylate			-		Weight of evidence		No evidence for reproductive toxicity No evidence for teratogenic effects
disodium disilicate			No data available				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 percarbonate		No data available				
sodium alkylbenzenesulphonate		No data available				
alkyl alcohol ethoxylate		No data available				
alkyl alcohol ethoxylate		No data available				
disodium disilicate	NOAEL	> 159	Rat	Method not given	180	No effects observed

Sub-chronic dermal toxicity

Ingredient(s)	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure time (days)	Specific effects and organs affected
sodium carbonate		No data available				
sodium percarbonate		No data available				
sodium alkylbenzenesulphonate		No data available				
alkyl alcohol ethoxylate		No data available				
alkyl alcohol ethoxylate		No data available				
disodium disilicate		No data available				

Sub-chronic inhalation toxicity

Ingredient(s)	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure time (days)	Specific effects and organs affected
sodium carbonate		No data available				
sodium percarbonate		No data available				
sodium alkylbenzenesulphonate		No data available				
alkyl alcohol ethoxylate		No data available				
alkyl alcohol ethoxylate		No data available				
disodium disilicate		No data available				

Chronic toxicity

Ingredient(s)	Exposure	Endpoint	Value	Species	Method	Exposure	Specific effects and	Remark
	route		(mg/kg bw/d)			time	organs affected	
sodium carbonate			No data					
			available					
sodium percarbonate			No data					
			available					
sodium			No data					
alkylbenzenesulphonat			available					
е								
alkyl alcohol ethoxylate	Oral	NOAEL	50	Rat	Method not	24 month(s)	Effects on organ weights	
					given			
alkyl alcohol ethoxylate			No data					
			available					
disodium disilicate			No data					

_					
		available			

STOT-single exposure

Ingredient(s)	Affected organ(s)
sodium carbonate	No data available
sodium percarbonate	No data available
sodium alkylbenzenesulphonate	No data available
alkyl alcohol ethoxylate	Not applicable
alkyl alcohol ethoxylate	Not applicable
disodium disilicate	No data available

STOT-repeated exposure

Ingredient(s)	Affected organ(s)
sodium carbonate	No data available
sodium percarbonate	No data available
sodium alkylbenzenesulphonate	No data available
alkyl alcohol ethoxylate	Not applicable
alkyl alcohol ethoxylate	Not applicable
disodium disilicate	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 50	300	Lepomis macrochirus	Method not given	96
sodium percarbonate	LC 50	70.7	Pimephales promelas	Method not given	96
sodium alkylbenzenesulphonate		No data available			
alkyl alcohol ethoxylate	LC 50	1 - 10	Cyprinus carpio	OECD 203 (EU C.1)	96
alkyl alcohol ethoxylate	LC 50	1 - 10	Cyprinus carpio	OECD 203 (EU C.1)	96
disodium disilicate	LC 50	260 - 310	Oncorhynchus mykiss	Method not given	96

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 percarbonate	EC 50	4.9	Daphnia pulex	Method not given	48
sodium alkylbenzenesulphonate		No data available			
alkyl alcohol ethoxylate	EC 50	1 - 10	Daphnia magna Straus	OECD 202, static	48
alkyl alcohol ethoxylate	EC 50	1 - 10	Daphnia magna Straus	OECD 202 (EU C.2)	48
disodium disilicate	EC 50	1700	Daphnia magna Straus	Method not given	48

Aquatic short-term toxicity - algae

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
sodium carbonate		No data available			-
sodium percarbonate		No data available			-
sodium alkylbenzenesulphonate		No data available			
alkyl alcohol ethoxylate	EC 50	1 - 10	Desmodesmus subspicatus	OECD 201, static	72

alkyl alcohol ethoxylate	EC 50	1 - 10	Desmodesmus	OECD 201 (EU C.3)	72
			subspicatus		
disodium disilicate	EC 50	207	Desmodesmus	Method not given	72
			subspicatus	-	

Aquatic short-term toxicity - marine species

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (days)
sodium carbonate		No data available			-
sodium percarbonate		No data available			-
sodium alkylbenzenesulphonate		No data available			
alkyl alcohol ethoxylate		No data available			-
alkyl alcohol ethoxylate		No data available			-
disodium disilicate		No data available			-

Impact on sewage plants - toxicity to bacteria

Ingredient(s)	Endpoint	Value (mg/l)	Inoculum	Method	Exposure time
sodium carbonate		No data available			
sodium percarbonate	EC 50	466	Activated sludge	OECD 209	0.5 hour(s)
sodium alkylbenzenesulphonate		No data available			
alkyl alcohol ethoxylate	EC 10	> 10000	Activated sludge	DIN 38412 / Part 8	17 hour(s)
alkyl alcohol ethoxylate	EC 50	140	Activated sludge	Weight of evidence	17 hour(s)
disodium disilicate		No data available			

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

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
sodium carbonate		No data available				
sodium percarbonate	NOEC	7.4	Pimephales promelas	Method not given	96 hour(s)	
sodium alkylbenzenesulphonate		No data available				
alkyl alcohol ethoxylate		No data available				
alkyl alcohol ethoxylate	NOEC	1.73	Not specified	QSAR Weight of evidence	·	
disodium disilicate	NOEC	348	Brachydanio rerio	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 percarbonate	NOEC	2	Daphnia pulex	Method not given	48 hour(s)	
sodium alkylbenzenesulphonate		No data available				
alkyl alcohol ethoxylate		No data available				
alkyl alcohol ethoxylate	NOEC	1.36	Daphnia magna	QSAR Weight of evidence	21 hour(s)	
disodium disilicate		No data available				

Aquatic toxicity to other aquatic benthic organisms, including sediment-dwelling organisms, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw sediment)	Species	Method	Exposure time (days)	Effects observed
sodium carbonate		No data available			-	
sodium percarbonate		No data available			-	
sodium alkylbenzenesulphonate		No data available				
alkyl alcohol ethoxylate		No data available			-	

alkyl alcohol ethoxylate	No data available		-	
disodium disilicate	No data		-	
	available	1		

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			ı	
sodium percarbonate		No data available			-	
alkyl alcohol ethoxylate	NOEC	220	Eisenia fetida		-	
alkyl alcohol ethoxylate	LD 50	> 1000	Eisenia fetida	OECD 207	14	
disodium disilicate		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			-	
sodium percarbonate		No data available			-	
alkyl alcohol ethoxylate	NOEC	10	Lepidium sativum	OECD 208	-	
alkyl alcohol ethoxylate	EC 50	> 100	Triticum aestivum Lepidium sativum Brassica alba	OECD 208	-	
disodium disilicate		No data available			-	

Terrestrial toxicity - birds, if available:

Ingredient(s)	Endpoint	Value	Species	Method	Exposure time (days)	Effects observed
sodium carbonate		No data			-	
sodium percarbonate		available No data			_	
		available				
alkyl alcohol ethoxylate		No data available			-	
alkyl alcohol ethoxylate		No data available			-	
disodium disilicate		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 percarbonate		No data available			-	
alkyl alcohol ethoxylate		No data available			-	
alkyl alcohol ethoxylate		No data available			-	
disodium disilicate		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 percarbonate		No data available			-	
alkyl alcohol ethoxylate		No data available			-	
alkyl alcohol ethoxylate		No data available			-	
disodium disilicate		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 percarbonate	NA	Method not given		

Abiotic degradation - hydrolysis, if available:

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

Abiotic degradation - other processes, if available:

BiodegradationReady biodegradability - aerobic conditions

Ingredient(s)	Inoculum	Analytical method	DT 50	Method	Evaluation
sodium carbonate					Not applicable (inorganic substance)
sodium percarbonate					Not applicable (inorganic substance)
sodium alkylbenzenesulphonate				OECD 301B	Readily biodegradable
alkyl alcohol ethoxylate		CO ₂ production	> 60 % in 28 day(s)	OECD 301B	Readily biodegradable
alkyl alcohol ethoxylate		CO ₂ production	> 60 % in 28 day(s)	OECD 301B	Readily biodegradable
disodium disilicate					Not applicable (inorganic substance)

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 percarbonate	No data available			
sodium alkylbenzenesulphonate	No data available			
alkyl alcohol ethoxylate	No data available			
alkyl alcohol ethoxylate	No data available		Not relevant, does not bioaccumulate	
disodium disilicate	No data available		Low potential for bioaccumulation	

Bioconcentration factor (BCF)

Ingredient(s)	Value	Species	Method	Evaluation	Remark
sodium carbonate	No data available			No bioaccumulation expected	
sodium percarbonate	No data available				
sodium alkylbenzenesulphonat e	No data available				
alkyl alcohol ethoxylate	No data available				
alkyl alcohol ethoxylate	No data available				
disodium disilicate	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 percarbonate	No data available				High potential for mobility in soil
sodium alkylbenzenesulphonate	No data available				
alkyl alcohol ethoxylate	No data available				Immobile in soil or sediment
alkyl alcohol ethoxylate	No data available				
disodium disilicate	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

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

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

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

Class: -

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

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

Ingredients according to EC Detergents Regulation 648/2004

15 - 30% zeolites anionic surfactants, oxygen-based bleaching agents 5 - 15% non-ionic surfactants, phosphonates, polycarboxylates, soap < 5% perfumes, optical brighteners, enzymes

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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Classification procedure

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.
- · H315 Causes skin irritation.
- H318 Causes serious eye damage.
- · H319 Causes serious eye irritation.
- · H335 May cause respiratory irritation.

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

End of Safety Data Sheet