



Domestos Professional Urinal Blocks

Revision: 2019-04-29

Version: 09.0

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

1.1 Product identifier

Trade name: Domestos Professional Urinal Blocks
Domestos 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-P305 - Sanitary cleaner. 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

Unilever Ireland, No.20 Riverwalk, National Digital Park, Citywest, Dublin 24
Tel: 1850 445555

Diversey Hygiene Sales Limited
Jamestown Road, Finglas, Dublin 11, Ireland
Tel: 01 8081808 (9am - 5pm Mon-Fri)
Email: dublin.orders@diversev.com

1.4 Emergency telephone number

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

National Poisons Information Centre

Tel: 01 809 2166. (8.00 a.m. to 10.00 p.m. 7 days a week)

Tel: 01 809 2566 (health care professionals)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Skin Irrit. 2 (H315)

Eye Dam. 1 (H318)

Aquatic Chronic 3 (H412)

2.2 Label elements



Signal word: Danger.

Contains sodium alkylbenzenesulphonate (Sodium Dodecylbenzenesulfonate), d-limonene (Limonene), citral (Citral), pin-2(3)-ene (Alpha-Pinenes), cineole (Eucalyptol)

Hazard statements:

H315 - Causes skin irritation.

H318 - Causes serious eye damage.

EUH208 - May produce an allergic reaction.

H412 - Harmful to aquatic life with long lasting effects.

Precautionary statements:

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

P102 - Keep out of reach of children.

P280 - Wear eye or face protection.

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

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

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P501 - Dispose of unused content as chemical waste.

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 #	REACH number	Classification	Notes	Weight percent
sodium alkylbenzenesulphonate	270-115-0	68411-30-3	01-2119489428-22	Acute Tox. 4 (H302) Skin Irrit. 2 (H315) Eye Dam. 1 (H318) Aquatic Chronic 3 (H412)		30-50
sodium carbonate	207-838-8	497-19-8	01-2119485498-19	Eye Irrit. 2 (H319)		3-10
d-limonene	227-813-5	5989-27-5	01-2119529223-47	Flam. Liq. 3 (H226) Asp. Tox. 1 (H304) Skin Irrit. 2 (H315) Skin Sens. 1B (H317) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)		0.1-1
citral	226-394-6	5392-40-5	-	Skin Irrit. 2 (H315) Skin Sens. 1 (H317)		0.1-1
pin-2(3)-ene	201-291-9	80-56-8	01-2119519223-49	Flam. Liq. 3 (H226) Asp. Tox. 1 (H304) Skin Irrit. 2 (H315) Skin Sens. 1B (H317)		0.1-1
cineole	207-431-5	470-82-6	01-2119967772-24	Flam. Liq. 3 (H226) Skin Sens. 1B (H317)		0.1-1

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.

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:	Take off immediately all contaminated clothing and wash it before re-use.
Eye contact:	Hold eyelids apart and flush eyes with plenty of lukewarm water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTRE, doctor or physician.
Ingestion:	Rinse mouth. Immediately drink 1 glass of water. Never give anything by mouth to an unconscious person. Get medical attention or advice if you feel unwell.
Self-protection of first aider:	Consider personal protective equipment as indicated in subsection 8.2.

4.2 Most important symptoms and effects, both acute and delayed

Inhalation:	No known effects or symptoms in normal use.
Skin contact:	Causes irritation.
Eye contact:	Causes severe or permanent damage.
Ingestion:	No known effects or symptoms in normal use.

4.3 Indication of any immediate medical attention and special treatment needed

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

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

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6.1 Personal precautions, protective equipment and emergency procedures

Wear eye/face protection.

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.

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 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. 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:

Ingredient(s)	Long term value(s)	Short term value(s)
citral	5 ppm	15 ppm

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 alkylbenzenesulphonate	-	-	-	0.425
sodium carbonate	-	-	-	-
d-limonene	-	-	-	4.76
citral	No data available	No data available	No data available	No data available
pin-2(3)-ene	No data available	No data available	No data available	No data available
cineole	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 alkylbenzenesulphonate	-	-	-	85
sodium carbonate	-	-	No data available	-
d-limonene	0.222 mg/cm ² skin	-	No data available	-
citral	No data available	No data available	No data available	No data available
pin-2(3)-ene	No data available	No data available	No data available	No data available
cineole	No data available	No data available	No data available	No data available

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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 alkylbenzenesulphonate	-	-	-	42.5
sodium carbonate	No data available	-	No data available	-
d-limonene	0.111 mg/cm ² skin	-	No data available	-
citral	No data available	No data available	No data available	No data available
pin-2(3)-ene	No data available	No data available	No data available	No data available
cineole	No data available	No data available	No data available	No data available

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 alkylbenzenesulphonate	-	-	-	6
sodium carbonate	-	-	10	-
d-limonene	-	-	-	33.3
citral	No data available	No data available	No data available	No data available
pin-2(3)-ene	No data available	No data available	No data available	No data available
cineole	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 alkylbenzenesulphonate	-	-	-	1.5
sodium carbonate	10	-	-	-
d-limonene	-	-	-	8.33
citral	No data available	No data available	No data available	No data available
pin-2(3)-ene	No data available	No data available	No data available	No data available
cineole	No data available	No data available	No data available	No data available

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 alkylbenzenesulphonate	0.268	0.0268	0.0167	3.43
sodium carbonate	-	-	-	-
d-limonene	0.0054	0.00054	-	1.8
citral	No data available	No data available	No data available	No data available
pin-2(3)-ene	No data available	No data available	No data available	No data available
cineole	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/m ³)
sodium alkylbenzenesulphonate	8.1	6.8	35	-
sodium carbonate	-	-	-	-
d-limonene	1.32	0.13	0.262	-
citral	No data available	No data available	No data available	No data available
pin-2(3)-ene	No data available	No data available	No data available	No data available
cineole	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:

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: ≥ 480 min Material thickness: ≥ 0.7 mm
 Suggested gloves for protection against splashes: Material: nitrile rubber Penetration time: ≥ 30 min Material thickness: ≥ 0.4 mm
 In consultation with the supplier of protective gloves a different type providing similar protection may

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be chosen.
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

<p>Physical State: Solid Appearance: Tablets Colour: Green Odour: Perfumed Odour threshold: Not applicable pH: Not applicable. Dilution pH: ≈ 8 (1%) Melting point/freezing point (°C): Not determined Initial boiling point and boiling range (°C): Not determined</p>	<p>Method / remark</p> <p>ISO 4316 Not relevant to classification of this product Not applicable to solids or gases</p>
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Substance data, boiling point

Ingredient(s)	Value (°C)	Method	Atmospheric pressure (hPa)
sodium alkylbenzenesulphonate	No data available		
sodium carbonate	1600	Method not given	1013
d-limonene	175-178	Method not given	1013
citral	No data available		
pin-2(3)-ene	No data available		
cineole	No data available		

<p>Flammability (liquid): Not applicable. Flash point (°C): Not applicable. Sustained combustion: Not applicable. <i>(UN Manual of Tests and Criteria, section 32, L.2)</i> Evaporation rate: Not determined Flammability (solid, gas): Not flammable Upper/lower flammability limit (%): Not determined</p>	<p>Method / remark</p> <p>Not relevant to classification of this product See substance data</p>
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Substance data, flammability or explosive limits, if available:

Ingredient(s)	Lower limit (% vol)	Upper limit (% vol)
d-limonene	0.7	6.1

<p>Vapour pressure: Not determined</p>	<p>Method / remark</p> <p>See substance data</p>
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Substance data, vapour pressure

Ingredient(s)	Value (Pa)	Method	Temperature (°C)
sodium alkylbenzenesulphonate	No data available		
sodium carbonate	Negligible		
d-limonene	190-230	Method not given	20
citral	No data available		
pin-2(3)-ene	No data available		
cineole	No data available		

<p>Vapour density: Not determined Relative density: ≈ 1.00 (20 °C) Solubility in / Miscibility with Water: Soluble</p>	<p>Method / remark</p> <p>Not relevant to classification of this product OECD 109 (EU A.3)</p>
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Substance data, solubility in water

Ingredient(s)	Value (g/l)	Method	Temperature (°C)
sodium alkylbenzenesulphonate	> 250		
sodium carbonate	210-215	Method not given	20
d-limonene	Insoluble	Method not given	20
citral	No data available		
pin-2(3)-ene	No data available		

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cineole	No data available		
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Substance data, partition coefficient n-octanol/water (log Kow): see subsection 12.3

Autoignition temperature: Not determined
Decomposition temperature: Not applicable.
Viscosity: Not determined
Explosive properties: Not explosive.
Oxidising properties: Not oxidising.

Method / remark

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
 Not applicable to solids or gases

Substance data, dissociation constant, if available:

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

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 alkylbenzenesulphonate	LD ₅₀	1080	Rat	OECD 401 (EU B.1)	
sodium carbonate	LD ₅₀	2800	Rat	Method not given	
d-limonene	LD ₅₀	4400 - 5100	Rat	Method not given	
citral		No data available			
pin-2(3)-ene		No data available			
cineole		No data available			

Acute dermal toxicity

Ingredient(s)	Endpoint	Value (mg/kg)	Species	Method	Exposure time (h)
sodium alkylbenzenesulphonate	LD ₅₀	> 2000	Rat	OECD 402 (EU B.3)	
sodium carbonate	LD ₅₀	> 2000	Rabbit	Method not given	
d-limonene	LD ₅₀	> 5000	Rabbit	Method not given	
citral		No data available			
pin-2(3)-ene		No data available			
cineole		No data			

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		available		
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Acute inhalative toxicity

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
sodium alkylbenzenesulphonate		No data available			
sodium carbonate	LC ₅₀	2.3 (dust)	Rat	OECD 403 (EU B.2)	2
d-limonene		No data available			
citral		No data available			
pin-2(3)-ene		No data available			
cineole		No data available			

Irritation and corrosivity

Skin irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
sodium alkylbenzenesulphonate	Irritant	Rabbit	OECD 404 (EU B.4)	
sodium carbonate	Not irritant	Rabbit	OECD 404 (EU B.4)	
d-limonene	Irritant	Rabbit	Method not given	
citral	No data available			
pin-2(3)-ene	No data available			
cineole	No data available			

Eye irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
sodium alkylbenzenesulphonate	Corrosive	Rabbit	OECD 405 (EU B.5)	
sodium carbonate	Irritant	Rabbit	Method not given	
d-limonene	No data available			
citral	No data available			
pin-2(3)-ene	No data available			
cineole	No data available			

Respiratory tract irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
sodium alkylbenzenesulphonate	Not irritating to respiratory tract			
sodium carbonate	No data available			
d-limonene	No data available			
citral	No data available			
pin-2(3)-ene	No data available			
cineole	No data available			

Sensitisation

Sensitisation by skin contact

Ingredient(s)	Result	Species	Method	Exposure time (h)
sodium alkylbenzenesulphonate	Not sensitising	Guinea pig	OECD 406 (EU B.6) / GPMT	
sodium carbonate	Not sensitising		Method not given	
d-limonene	Sensitising	Guinea pig	Method not given	
citral	No data available			
pin-2(3)-ene	No data available			
cineole	No data available			

Sensitisation by inhalation

Ingredient(s)	Result	Species	Method	Exposure time
sodium alkylbenzenesulphonate	No data available			
sodium carbonate	No data available			
d-limonene	No data available			
citral	No data available			
pin-2(3)-ene	No data available			
cineole	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 alkylbenzenesulphonate	No evidence for mutagenicity, negative	OECD 471 (EU)	No data available	

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	test results	B.12/13) OECD 476 OECD 473		
sodium carbonate	No data available		No data available	
d-limonene	No data available		No data available	
citral	No data available		No data available	
pin-2(3)-ene	No data available		No data available	
cineole	No data available		No data available	

Carcinogenicity

Ingredient(s)	Effect
sodium alkylbenzenesulphonate	No data available
sodium carbonate	No evidence for carcinogenicity, weight-of-evidence
d-limonene	No data available
citral	No data available
pin-2(3)-ene	No data available
cineole	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 alkylbenzenesulphonate	NOAEL	Teratogenic effects	300	Rat	Non guideline test		No known significant effects or critical hazards
sodium carbonate			No data available				
d-limonene			No data available				
citral			No data available				
pin-2(3)-ene			No data available				
cineole			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 alkylbenzenesulphonate		No data available				
sodium carbonate		No data available				
d-limonene		No data available				
citral		No data available				
pin-2(3)-ene		No data available				
cineole		No data available				

Sub-chronic dermal toxicity

Ingredient(s)	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure time (days)	Specific effects and organs affected
sodium alkylbenzenesulphonate		No data available				
sodium carbonate		No data available				
d-limonene		No data available				
citral		No data available				
pin-2(3)-ene		No data available				
cineole		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 alkylbenzenesulphonate		No data available				
sodium carbonate		No data available				
d-limonene		No data available				
citral		No data available				
pin-2(3)-ene		No data available				

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		available				
cineole		No data available				

Chronic toxicity

Ingredient(s)	Exposure route	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure time	Specific effects and organs affected	Remark
sodium alkylbenzenesulphonate			No data available					
sodium carbonate			No data available					
d-limonene			No data available					
citral			No data available					
pin-2(3)-ene			No data available					
cineole			No data available					

STOT-single exposure

Ingredient(s)	Affected organ(s)
sodium alkylbenzenesulphonate	No data available
sodium carbonate	No data available
d-limonene	No data available
citral	No data available
pin-2(3)-ene	No data available
cineole	No data available

STOT-repeated exposure

Ingredient(s)	Affected organ(s)
sodium alkylbenzenesulphonate	No data available
sodium carbonate	No data available
d-limonene	No data available
citral	No data available
pin-2(3)-ene	No data available
cineole	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 alkylbenzenesulphonate	LC ₅₀	1.67	<i>Fish</i>	EPA-OPPTS 850.1075	96
sodium carbonate	LC ₅₀	300	<i>Lepomis macrochirus</i>	Method not given	96
d-limonene	LC ₅₀	0.72	<i>Pimephales promelas</i>	OECD 203 (EU C.1)	96
citral		No data available			
pin-2(3)-ene		No data available			
cineole		No data available			

Aquatic short-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
sodium alkylbenzenesulphonate	LC ₅₀	2.9	<i>Daphnia</i>	OECD 202 (EU C.2)	48
sodium carbonate	EC ₅₀	265	<i>Daphnia magna Straus</i>	Method not given	96

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d-limonene	EC ₅₀	0.36	<i>Daphnia magna Straus</i>	OECD 202 (EU C.2)	48
citral		No data available			
pin-2(3)-ene		No data available			
cineole		No data available			

Aquatic short-term toxicity - algae

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
sodium alkylbenzenesulphonate	E _b C ₅₀	47.3	<i>Not specified</i>	Non guideline test	72
sodium carbonate		No data available			-
d-limonene	E _r C ₅₀	150	<i>Desmodesmus subspicatus</i>	OECD 201 (EU C.3)	72
citral		No data available			
pin-2(3)-ene		No data available			
cineole		No data available			

Aquatic short-term toxicity - marine species

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (days)
sodium alkylbenzenesulphonate		No data available			
sodium carbonate		No data available			-
d-limonene		No data available			-
citral		No data available			
pin-2(3)-ene		No data available			
cineole		No data available			

Impact on sewage plants - toxicity to bacteria

Ingredient(s)	Endpoint	Value (mg/l)	Inoculum	Method	Exposure time
sodium alkylbenzenesulphonate	EC ₅₀	550	<i>Bacteria</i>	OECD 209	3 hour(s)
sodium carbonate		No data available			
d-limonene		No data available			
citral		No data available			
pin-2(3)-ene		No data available			
cineole		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 alkylbenzenesulphonate	NOEC	0.23	<i>Oncorhynchus mykiss</i>	Method not given	72 day(s)	
sodium carbonate		No data available				
d-limonene		No data available				
citral		No data available				
pin-2(3)-ene		No data available				
cineole		No data available				

Aquatic long-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
sodium alkylbenzenesulphonate	NOEC	1.41	<i>Daphnia magna</i>	OECD 211		
sodium carbonate		No data available				
d-limonene		No data available				

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citral		No data available				
pin-2(3)-ene		No data available				
cineole		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 alkylbenzenesulphonate		No data available				
sodium carbonate		No data available			-	
d-limonene		No data available			-	
citral		No data available				
pin-2(3)-ene		No data available				
cineole		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			-	
d-limonene		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			-	
d-limonene		No data available			-	

Terrestrial toxicity - birds, if available:

Ingredient(s)	Endpoint	Value	Species	Method	Exposure time (days)	Effects observed
sodium carbonate		No data available			-	
d-limonene		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			-	
d-limonene		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			-	
d-limonene		No data available			-	

12.2 Persistence and degradability

Abiotic degradation

Abiotic degradation - photodegradation in air, if available:

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:

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Biodegradation

Ready biodegradability - aerobic conditions

Ingredient(s)	Inoculum	Analytical method	DT ₅₀	Method	Evaluation
sodium alkylbenzenesulphonate	Activated sludge, aerobic	CO ₂ production	85 % in 28 day(s)	OECD 301B	Readily biodegradable
sodium carbonate					Not applicable (inorganic substance)
d-limonene			80 % in 28 day(s)	OECD 301D	Readily biodegradable
citral				OECD 301F	Readily biodegradable
pin-2(3)-ene				OECD 301D	Readily biodegradable
cineole				OECD 301F	Readily biodegradable

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 Kow)

Ingredient(s)	Value	Method	Evaluation	Remark
sodium alkylbenzenesulphonate	3.32	Method not given	Low potential for bioaccumulation	
sodium carbonate	No data available		No bioaccumulation expected	
d-limonene	No data available		High potential for bioaccumulation	
citral	No data available			
pin-2(3)-ene	No data available			
cineole	No data available			

Bioconcentration factor (BCF)

Ingredient(s)	Value	Species	Method	Evaluation	Remark
sodium alkylbenzenesulphonate	2-1000		Method not given	High potential for bioaccumulation	
sodium carbonate	No data available			No bioaccumulation expected	
d-limonene	683.1		Method not given	High potential for bioaccumulation	
citral	No data available				
pin-2(3)-ene	No data available				
cineole	No data available				

12.4 Mobility in soil

Adsorption/Desorption to soil or sediment

Ingredient(s)	Adsorption coefficient Log K _{oc}	Desorption coefficient Log K _{oc} (des)	Method	Soil/sediment type	Evaluation
sodium alkylbenzenesulphonate	No data available				
sodium carbonate	No data available				Potential for mobility in soil, soluble in water
d-limonene	No data available				High potential for mobility in soil
citral	No data available				
pin-2(3)-ene	No data available				
cineole	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 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.

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

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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: 5MK4-G01E-A00W-EECX

Ingredients according to EC Detergents Regulation 648/2004

anionic surfactants

15 - 30 %

perfumes, Limonene, Citral, Citronellol

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:

- H226 - Flammable liquid and vapour.
- H302 - Harmful if swallowed.
- H303 - May be harmful if swallowed.
- H304 - May be fatal if swallowed and enters airways.
- H315 - Causes skin irritation.
- H317 - May cause an allergic skin reaction.
- H318 - Causes serious eye damage.
- H319 - Causes serious eye irritation.
- H400 - Very toxic to aquatic life.
- H410 - Very toxic to aquatic life with long lasting effects.
- 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
- 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
- OECD - Organization for Economic Cooperation and Development

End of Safety Data Sheet