

Domestos Professional Urinal Blocks

Revision: 2014-10-08

Version: 07.0

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:
For professional use only.
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, Maarssebroeksedijk 2, 3542DN Utrecht, The Netherlands

Contact details

Unilever UK Ltd., Freepost ADM1000, London SW1A 2XX
Tel: 0800 776647

Diversey Ltd
Weston Favell Centre, Northampton NN3 8PD, United Kingdom
Tel: 01604 405311, Fax: 01604 406809
Regulatory Email: MSDSinfoUK@sealedair.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

The product has been classified and labelled in accordance with Regulation (EC) No 1272/2008.

Skin Irrit. 2 (H315)
Eye Dam. 1 (H318)
Aquatic Chronic 3 (H412)

Classification in accordance with Directive 1999/45/EC and corresponding national legislation

Indication of danger
Xi - Irritant

Risk phrases:

R38 - Irritating to skin.
R41 - Risk of serious damage to eyes.

2.2 Label elements



Signal word: Danger

Contains sodium alkylbenzenesulphonate (Sodium Dodecylbenzenesulfonate). EUH208: d-limonene (Limonene)

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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:

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.

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

| Ingredient(s) | EC number | CAS number | REACH number | Classification | Classification (1999/45/EC) | Notes | Weight percent |
|-------------------------------|-----------|------------|-------------------|--|--|-------|----------------|
| sodium alkylbenzenesulphonate | 270-115-0 | 68411-30-3 | No data available | Acute Tox. 4 (H302) Skin Irrit. 2 (H315) Eye Dam. 1 (H318) Aquatic Chronic 3 (H412) | Xn;R22 Xi;R38-41 | | 20-30 |
| sodium carbonate | 207-838-8 | 497-19-8 | 01-2119485498-19 | Eye Irrit. 2 (H319) | Xi;R36 | | 3-10 |
| d-limonene | 227-813-5 | 5989-27-5 | 01-2119529223-47 | Asp. Tox. 1 (H304) Skin Irrit. 2 (H315) Skin Sens. 1B (H317) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410) | R10 Xi;R38-43 N;R50/53 Xn;R65 | | 0.1-1 |

* Polymer.

For the full text of the R, 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****Inhalation**

Get medical attention or advice if you feel unwell.

Skin contact:

Wash skin with plenty of lukewarm, gently flowing water. Take off immediately all contaminated clothing and wash it before re-use. 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. Immediately call a POISON CENTRE, doctor or physician.

Ingestion:

Rinse mouth. Immediately drink 1 glass of water. 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.

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SECTION 6: Accidental release measures**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:

Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs. Do not mix with other products unless advised by Sealed Air. 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. Wash contaminated clothing before reuse. Use personal protective equipment as required. Avoid contact with eyes. 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 alkylbenzenesulphonate | No data available | No data available | No data available | No data available |
| sodium carbonate | No data available | No data available | No data available | No data available |
| d-limonene | No data available | No data available | No data available | 4.76 |

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 | No data available | No data available | No data available | No data available |
| sodium carbonate | No data available | No data available | No data available | No data available |
| d-limonene | 0.222 mg/cm ² skin | No data available | No data available | No data available |

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 | No data available | No data available | No data available | No data available |
| sodium carbonate | No data available | No data available | No data available | No data available |
| d-limonene | 0.111 mg/cm ² skin | No data available | No data available | No data available |

DNEL inhalatory exposure - Worker (mg/m³)

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| Ingredient(s) | Short term - Local effects | Short term - Systemic effects | Long term - Local effects | Long term - Systemic effects |
|-------------------------------|----------------------------|-------------------------------|---------------------------|------------------------------|
| sodium alkylbenzenesulphonate | No data available | No data available | No data available | No data available |
| sodium carbonate | No data available | No data available | 10 | No data available |
| d-limonene | No data available | No data available | No data available | 33.3 |

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 | No data available | No data available | No data available | No data available |
| sodium carbonate | 10 | No data available | No data available | No data available |
| d-limonene | No data available | No data available | No data available | 8.33 |

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 | No data available | No data available | No data available | No data available |
| sodium carbonate | No data available | No data available | No data available | No data available |
| d-limonene | 0.0054 | 0.00054 | No data available | 1.8 |

Environmental exposure - PNEC, continued

| Ingredient(s) | Sediment, freshwater (mg/kg) | Sediment, marine (mg/kg) | Soil (mg/kg) | Air (mg/m ³) |
|-------------------------------|------------------------------|--------------------------|-------------------|--------------------------|
| sodium alkylbenzenesulphonate | No data available | No data available | No data available | No data available |
| sodium carbonate | No data available | No data available | No data available | No data available |
| d-limonene | 1.32 | 0.13 | 0.262 | No data available |

8.2 Exposure controls

The following information applies for the uses indicated in subsection 1.2.

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 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

Method / remark

Physical State: Solid

Appearance: Tablets

Colour: Green

Odour: Perfumed

Odour threshold: Not applicable

pH:

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Dilution pH: ≈ 8 (1%)

Melting point/freezing point (°C): Not determined

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

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 |

Method / remark

Flash point (°C): Not applicable.

Sustained combustion: Not determined

Evaporation rate: Not determined

Flammability (solid, gas): Not determined

Upper/lower flammability limit (%): Not determined

Substance data, flammability or explosive limits, if available:

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

Method / remark

Vapour pressure: Not determined

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 |

Method / remark

Vapour density: Not determined

Relative density: Not determined

Solubility in / Miscibility with Water: Soluble

Substance data, solubility in water

| Ingredient(s) | Value (g/l) | Method | Temperature (°C) |
|-------------------------------|-------------------|------------------|------------------|
| sodium alkylbenzenesulphonate | No data available | | |
| sodium carbonate | 210-215 | Method not given | 20 |
| d-limonene | Insoluble | 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 determined

Viscosity: Not determined

Explosive properties: Not explosive.

Oxidising properties: Not oxidising

9.2 Other information

Surface tension (N/m): Not determined

Corrosion to metals: Not applicable to solids or gases

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):

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 | | No data available | | | |
| sodium carbonate | LD ₅₀ | 2800 | Rat | Method not given | |
| d-limonene | LD ₅₀ | 4400 - 5100 | Rat | Method not given | |

Acute dermal toxicity

| Ingredient(s) | Endpoint | Value (mg/kg) | Species | Method | Exposure time (h) |
|-------------------------------|------------------|-------------------|---------|------------------|-------------------|
| sodium alkylbenzenesulphonate | | No data available | | | |
| sodium carbonate | LD ₅₀ | > 2000 | Rabbit | Method not given | |
| d-limonene | LD ₅₀ | > 5000 | Rabbit | Method not given | |

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 | | | |

Irritation and corrosivity

Skin irritation and corrosivity

| Ingredient(s) | Result | Species | Method | Exposure time |
|-------------------------------|-------------------|---------|------------------|---------------|
| sodium alkylbenzenesulphonate | No data available | | | |
| sodium carbonate | Not irritant | Rabbit | Method not given | |
| d-limonene | Irritant | Rabbit | Method not given | |

Eye irritation and corrosivity

| Ingredient(s) | Result | Species | Method | Exposure time |
|-------------------------------|-------------------|---------|------------------|---------------|
| sodium alkylbenzenesulphonate | No data available | | | |
| sodium carbonate | Irritant | Rabbit | Method not given | |
| d-limonene | No data available | | | |

Respiratory tract irritation and corrosivity

| Ingredient(s) | Result | Species | Method | Exposure time |
|-------------------------------|-------------------|---------|--------|---------------|
| sodium alkylbenzenesulphonate | No data available | | | |
| sodium carbonate | No data available | | | |
| d-limonene | No data available | | | |

Sensitisation

Sensitisation by skin contact

| Ingredient(s) | Result | Species | Method | Exposure time (h) |
|-------------------------------|-------------------|------------|------------------|-------------------|
| sodium alkylbenzenesulphonate | No data available | | | |
| sodium carbonate | Not sensitising | | Method not given | |
| d-limonene | Sensitising | Guinea pig | Method not given | |

Sensitisation by inhalation

| Ingredient(s) | Result | Species | Method | Exposure time |
|-------------------------------|-------------------|---------|--------|---------------|
| sodium alkylbenzenesulphonate | No data available | | | |
| sodium carbonate | No data available | | | |

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| | | | |
|------------|-------------------|--|--|
| d-limonene | 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 data available | | No data available | |
| sodium carbonate | No data available | | No data available | |
| d-limonene | 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 |

Toxicity for reproduction

| Ingredient(s) | Endpoint | Specific effect | Value (mg/kg bw/d) | Species | Method | Exposure time | Remarks and other effects reported |
|-------------------------------|----------|-----------------|--------------------|---------|--------|---------------|------------------------------------|
| sodium alkylbenzenesulphonate | | | No data available | | | | |
| sodium carbonate | | | No data available | | | | |
| d-limonene | | | 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 | | | | |

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 | | | | |

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 | | | | |

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 | | | | | |

STOT-single exposure

| Ingredient(s) | Affected organ(s) |
|-------------------------------|-------------------|
| sodium alkylbenzenesulphonate | No data available |
| sodium carbonate | No data available |
| d-limonene | No data available |

STOT-repeated exposure

| Ingredient(s) | Affected organ(s) |
|-------------------------------|-------------------|
| sodium alkylbenzenesulphonate | No data available |

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| | |
|------------------|-------------------|
| sodium carbonate | No data available |
| d-limonene | 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 | | No data available | | | |
| 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 | 96 |

Aquatic short-term toxicity - crustacea

| Ingredient(s) | Endpoint | Value (mg/l) | Species | Method | Exposure time (h) |
|-------------------------------|------------------|-------------------|-----------------------------|------------------|-------------------|
| sodium alkylbenzenesulphonate | | No data available | | | |
| sodium carbonate | EC ₅₀ | 265 | <i>Daphnia magna Straus</i> | Method not given | 96 |
| d-limonene | EC ₅₀ | 0.36 | <i>Daphnia magna Straus</i> | OECD 202 | 48 |

Aquatic short-term toxicity - algae

| Ingredient(s) | Endpoint | Value (mg/l) | Species | Method | Exposure time (h) |
|-------------------------------|--------------------------------|-------------------|--------------------------------|----------|-------------------|
| sodium alkylbenzenesulphonate | | No data available | | | |
| sodium carbonate | | No data available | | | |
| d-limonene | E _r C ₅₀ | 150 | <i>Desmodesmus subspicatus</i> | OECD 201 | 72 |

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 | | | |

Impact on sewage plants - toxicity to bacteria

| Ingredient(s) | Endpoint | Value (mg/l) | Inoculum | Method | Exposure time |
|-------------------------------|----------|-------------------|----------|--------|---------------|
| sodium alkylbenzenesulphonate | | No data available | | | |
| sodium carbonate | | No data available | | | |
| d-limonene | | 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 | | No data available | | | | |
| sodium carbonate | | No data available | | | | |
| d-limonene | | No data available | | | | |

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Aquatic long-term toxicity - crustacea

| Ingredient(s) | Endpoint | Value (mg/l) | Species | Method | Exposure time | Effects observed |
|-------------------------------|----------|-------------------|---------|--------|---------------|------------------|
| sodium alkylbenzenesulphonate | | No data available | | | | |
| sodium carbonate | | No data available | | | | |
| d-limonene | | 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 | | | | |

Terrestrial toxicity

Terrestrial toxicity - soil invertebrates, including earthworms, if available:

Terrestrial toxicity - plants, if available:

Terrestrial toxicity - birds, if available:

Terrestrial toxicity - beneficial insects, if available:

Terrestrial toxicity - soil bacteria, if 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:

Biodegradation

Ready biodegradability - aerobic conditions

| Ingredient(s) | Inoculum | Analytical method | DT ₅₀ | Method | Evaluation |
|-------------------------------|----------|-------------------|-------------------|-----------|--------------------------------------|
| sodium alkylbenzenesulphonate | | | | | No data available |
| sodium carbonate | | | | | Not applicable (inorganic substance) |
| d-limonene | | | 80 % in 28 day(s) | OECD 301D | Readily biodegradable |

Ready biodegradability - anaerobic and marine conditions, if available:

Degradation in relevant environmental compartments, if available:

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.

12.3 Bioaccumulative potential

Partition coefficient n-octanol/water (log Kow)

| Ingredient(s) | Value | Method | Evaluation | Remark |
|-------------------------------|-------------------|--------|------------------------------------|--------|
| sodium alkylbenzenesulphonate | No data available | | | |
| sodium carbonate | No data available | | No bioaccumulation expected | |
| d-limonene | No data available | | High potential for bioaccumulation | |

Bioconcentration factor (BCF)

| Ingredient(s) | Value | Species | Method | Evaluation | Remark |
|-------------------------------|-------------------|---------|------------------|------------------------------------|--------|
| sodium alkylbenzenesulphonate | No data available | | | | |
| sodium carbonate | No data available | | | No bioaccumulation expected | |
| d-limonene | 683.1 | | Method not given | High potential for bioaccumulation | |

12.4 Mobility in soil

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Adsorption/Desorption to soil or sediment

| Ingredient(s) | Adsorption coefficient Log Koc | Desorption coefficient Log Koc(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 |

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**ADR, RID, ADN, IMO/IMDG, ICAO/IATA**

14.1 UN number: Non-dangerous goods

14.2 UN proper shipping name: Non-dangerous goods

14.3 Transport hazard class(es): Non-dangerous goods

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 73/78 and the IBC Code: The product is not transported in bulk tankers.

SECTION 15: Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

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

Ingredients according to EC Detergents Regulation 648/2004

anionic surfactants

15 - 30%

perfumes, Limonene, Citral, Hydroxyisohexyl 3-Cyclohexene Carboxaldehyde, Citronellol, Geraniol

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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Reason for revision:

Overall design adjusted in accordance with Amendment 453/2010, Annex II of Regulation (EC) No 1907/2006, This data sheet contains changes from the previous version in section(s):, 1, 3, 15

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 R, H and EUH phrases mentioned in section 3:

Domestos Professional Urinal Blocks

- H226 - Flammable liquid and vapour.
- H302 - 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.
- R10 - Flammable.
- R22 - Harmful if swallowed.
- R36 - Irritating to eyes.
- R38 - Irritating to skin.
- R41 - Risk of serious damage to eyes.
- R43 - May cause sensitisation by skin contact.
- R65 - Harmful: may cause lung damage if swallowed.
- R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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