

Reinilon Ja-Top 38

Revision: 2024-08-08

Version: 03.5

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

1.1 Product identifier

Trade name: Reinilon Ja-Top 38

UFI: TN56-G053-700G-4C3S

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

Product use: Hard surface cleaner.
For professional use only.
Uses advised against: Uses other than those identified are not recommended.

SWED - Sector-specific worker exposure description :

AISE_SWED_PW_10_1
AISE_SWED_PW_11_1
AISE_SWED_PW_19_1

1.3 Details of the supplier of the safety data sheet

Diversey Europe Operations BV, De Corridor 4, 3621ZB Breukelen [Maarssebroeksedijk 2, 3542DN Utrecht], The Netherlands

Contact details

Diversey Deutschland GmbH & Co. oHG
Mallaustr. 50-56, D-68219 Mannheim, Tel: 0621 - 8757-0
Auskunftgebender Bereich: Abteilung Verbraucherschutz, Produktsicherheit und Regulatory, Tel: 0621 - 87 57-0
E-mail: vpr.de@solenis.com

1.4 Emergency telephone number

Seek medical advice (show the label or safety data sheet where possible)
24h Notfallouskunft: Für medizinische Auskünfte:
Giftnotruf Berlin Tel: 030 - 306 867 00
Für technische Auskünfte bei Produkthavarien:
24h Notfallouskunft der BASF Werksfeuerwehr,
Tel: 0621- 60 4 33 33

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Eye irritation, Category 2 (H319)

2.2 Label elements



Signal word: Warning.

Hazard statements:

H319 - Causes serious eye irritation.

2.3 Other hazards

No other hazards known.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

| Ingredient(s) | EC number | CAS number | REACH number | Classification | Notes | Weight percent |
|-----------------|-----------|------------|--------------|--|-------|----------------|
| 2-butoxyethanol | 203-905-0 | 111-76-2 | 01-211947510 | Acute toxicity - Inhalation, Category 3 (H331) | | 3-10 |

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| | | | | | | |
|-------------------------------|-----------|------------|----------------------|--|--|-----|
| | | | 8-36 | Acute toxicity - Oral, Category 4 (H302) Skin irritation, Category 2 (H315) Eye irritation, Category 2 (H319) | | |
| sodium carbonate | 207-838-8 | 497-19-8 | 01-211948549 8-19 | Eye irritation, Category 2 (H319) | | 1-3 |
| sodium alkylbenzenesulphonate | 290-656-6 | 90194-45-9 | [1] | Acute toxicity - Oral, Category 4 (H302) Skin irritation, Category 2 (H315) Serious eye damage, Category 1 (H318) Chronic aquatic toxicity, Category 3 (H412) | | 1-3 |

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

ATE, if available, are listed in section 11.

[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.

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

SECTION 4: First aid measures

4.1 Description of first aid measures

| | |
|--|---|
| Inhalation: | Get medical attention or advice if you feel unwell. |
| Skin contact: | Wash skin with plenty of lukewarm, gently flowing water. If skin irritation occurs: Get medical advice or attention. |
| Eye contact: | Hold eyelids apart and flush eyes with plenty of lukewarm water for at least 15 minutes. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If irritation occurs and persists, get medical attention. |
| Ingestion: | Rinse mouth. Immediately drink 1 glass of water. Never give anything by mouth to an unconscious person. Get medical attention or advice if you feel unwell. |
| Self-protection of first aider: | Consider personal protective equipment as indicated in subsection 8.2. |

4.2 Most important symptoms and effects, both acute and delayed

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

4.3 Indication of any immediate medical attention and special treatment needed

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

SECTION 5: Firefighting measures

5.1 Extinguishing media

Carbon dioxide. Dry powder. Water spray jet. Fight larger fires with water spray jet or alcohol-resistant foam.

5.2 Special hazards arising from the substance or mixture

No special hazards known.

5.3 Advice for firefighters

As in any fire, wear self contained breathing apparatus and suitable protective clothing including gloves and eye/face protection.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear eye/face protection.

6.2 Environmental precautions

Dilute with plenty of water. Do not allow to enter drainage system, surface or ground water.

6.3 Methods and material for containment and cleaning up

Dyke to collect large liquid spills. Absorb with liquid-binding material (sand, diatomite, universal binders). Do not place spilled materials back into the original container. Collect in closed and suitable containers for disposal.

6.4 Reference to other sections

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

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Measures to prevent fire and explosions:

No special precautions required.

Measures required to protect the environment:

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For environmental exposure controls see subsection 8.2.

Advices on general occupational hygiene:

Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs. Do not mix with other products unless advised by Diversey. Wash hands before breaks and at the end of workday. Avoid contact with eyes. Do not breathe spray. Use only with adequate ventilation. See chapter 8.2, Exposure controls / Personal protection.

7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local and national regulations. Store in a closed container. Keep only in original packaging. For conditions to avoid see subsection 10.4. For incompatible materials see subsection 10.5.

7.3 Specific end use(s)

No specific advice for end use available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Workplace exposure limits

Air limit values, if available:

| Ingredient(s) | Long term value(s) | Short term value(s) |
|-----------------|--------------------------------|---------------------|
| 2-butoxyethanol | 10 ppm 49 mg/m ³ | |

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/DMEL oral exposure - Consumer (mg/kg bw)

| Ingredient(s) | Short term - Local effects | Short term - Systemic effects | Long term - Local effects | Long term - Systemic effects |
|-------------------------------|----------------------------|-------------------------------|---------------------------|------------------------------|
| 2-butoxyethanol | - | 26.7 | - | 6.3 |
| sodium carbonate | - | - | - | - |
| sodium alkylbenzenesulphonate | - | - | - | 0.425 |

DNEL/DMEL 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) |
|-------------------------------|----------------------------|--|---------------------------|---|
| 2-butoxyethanol | - | 89 | - | 125 |
| sodium carbonate | - | - | No data available | - |
| sodium alkylbenzenesulphonate | No data available | - | No data available | - |

DNEL/DMEL 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) |
|-------------------------------|----------------------------|--|---------------------------|---|
| 2-butoxyethanol | - | 89 | - | 75 |
| sodium carbonate | No data available | - | No data available | - |
| sodium alkylbenzenesulphonate | No data available | - | No data available | - |

DNEL/DMEL inhalatory exposure - Worker (mg/m³)

| Ingredient(s) | Short term - Local effects | Short term - Systemic effects | Long term - Local effects | Long term - Systemic effects |
|-------------------------------|----------------------------|-------------------------------|---------------------------|------------------------------|
| 2-butoxyethanol | 246 | 1091 | - | 98 |
| sodium carbonate | - | - | 10 | - |
| sodium alkylbenzenesulphonate | - | - | - | - |

DNEL/DMEL inhalatory exposure - Consumer (mg/m³)

| Ingredient(s) | Short term - Local effects | Short term - Systemic effects | Long term - Local effects | Long term - Systemic effects |
|-------------------------------|----------------------------|-------------------------------|---------------------------|------------------------------|
| 2-butoxyethanol | 147 | 426 | - | 59 |
| sodium carbonate | 10 | - | - | - |
| sodium alkylbenzenesulphonate | - | - | - | - |

Environmental exposure

Environmental exposure - PNEC

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| Ingredient(s) | Surface water, fresh (mg/l) | Surface water, marine (mg/l) | Intermittent (mg/l) | Sewage treatment plant (mg/l) |
|-------------------------------|-----------------------------|------------------------------|---------------------|-------------------------------|
| 2-butoxyethanol | 8.8 | 0.88 | 9.1 | 463 |
| sodium carbonate | - | - | - | - |
| sodium alkylbenzenesulphonate | - | - | - | - |

Environmental exposure - PNEC, continued

| Ingredient(s) | Sediment, freshwater (mg/kg) | Sediment, marine (mg/kg) | Soil (mg/kg) | Air (mg/m³) |
|-------------------------------|------------------------------|--------------------------|--------------|-------------|
| 2-butoxyethanol | 34.6 | 3.46 | 2.33 | - |
| sodium carbonate | - | - | - | - |
| sodium alkylbenzenesulphonate | - | - | - | - |

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: Provide a good standard of general ventilation.
Appropriate organisational controls: Avoid direct contact and/or splashes where possible. Train personnel. Users are advised to consider national Occupational Exposure Limits or other equivalent values, if available.

REACH use scenarios considered for the undiluted product:

| | SWED - Sector-specific worker exposure description | LCS | PROC | Duration (min) | ERC |
|---|--|-----|---------|----------------|-------|
| Manual application by brushing, wiping or mopping | AISE_SWED_PW_10_1 | PW | PROC 10 | 480 | ERC8a |
| Spray application | AISE_SWED_PW_11_1 | PW | PROC 11 | 60 | ERC8a |
| Manual application | AISE_SWED_PW_19_1 | PW | PROC 19 | 480 | ERC8a |

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 (EN 16321 / EN 166).
Hand protection: No special requirements under normal use conditions.
Body protection: No special requirements under normal use conditions.
Respiratory protection: Respiratory protection is not normally required. However, inhalation of vapour, spray, gas or aerosols should be avoided. Trigger spray bottle application: No special requirements under normal use conditions. Apply technical measures to comply with the occupational exposure limits, if available.

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

| | |
|---|--|
| Physical state: Liquid Colour: Clear , Blue Odour: Product specific Odour threshold: Not applicable Melting point/freezing point (°C): Not determined Initial boiling point and boiling range (°C): Not determined | Method / remark Not relevant to classification of this product See substance data |
|---|--|

Substance data, boiling point

| Ingredient(s) | Value (°C) | Method | Atmospheric pressure (hPa) |
|-------------------------------|-------------------|------------------|----------------------------|
| 2-butoxyethanol | 168-172 | Method not given | 1013 |
| sodium carbonate | 1600 | Method not given | 1013 |
| sodium alkylbenzenesulphonate | No data available | | |

| | |
|---|--|
| Flammability (solid, gas): Not applicable to liquids Flammability (liquid): Not flammable. Flash point (°C): > 60 °C Sustained combustion: Not applicable. | Method / remark closed cup |
|---|--|

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(UN Manual of Tests and Criteria, section 32, L.2)

Lower and upper explosion limit/flammability limit (%): Not determined

See substance data

Substance data, flammability or explosive limits, if available:

| Ingredient(s) | Lower limit (% vol) | Upper limit (% vol) |
|-----------------|------------------------|------------------------|
| 2-butoxyethanol | 1.1 | 10.6 |

Method / remark**Autoignition temperature:** Not determined**Decomposition temperature:** Not applicable.**pH:** ≥ 11.5 (neat)

ISO 4316

Kinematic viscosity: Not determined**Solubility in / Miscibility with water:** Fully miscible

Substance data, solubility in water

| Ingredient(s) | Value (g/l) | Method | Temperature (°C) |
|-------------------------------|-------------------|------------------|---------------------|
| 2-butoxyethanol | Soluble | Method not given | 20 |
| sodium carbonate | 210-215 | Method not given | 20 |
| sodium alkylbenzenesulphonate | No data available | | |

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

Method / remark**Vapour pressure:** Not determined

See substance data

Substance data, vapour pressure

| Ingredient(s) | Value (Pa) | Method | Temperature (°C) |
|-------------------------------|-------------------|------------------|---------------------|
| 2-butoxyethanol | 89 | Method not given | 20 |
| sodium carbonate | Negligible | | |
| sodium alkylbenzenesulphonate | No data available | | |

Method / remark**Relative density:** ≈ 1.03 (20 °C)**Relative vapour density:** -

OECD 109 (EU A.3)

Particle characteristics: No data available.Not relevant to classification of this product
Not applicable to liquids.**9.2 Other information****9.2.1 Information with regard to physical hazard classes****Explosive properties:** Not explosive.**Oxidising properties:** Not oxidising.**Corrosion to metals:** Not corrosive**9.2.2 Other safety characteristics****Alkali reserve:** ≈ 0.7 (g NaOH / 100g; pH=10)**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 hazard classes as defined in Regulation (EC) No 1272/2008**

Mixture data: .

Relevant calculated ATE(s):

ATE - Oral (mg/kg): >2000

ATE - Inhalatory, vapours (mg/l): >20

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) | ATE Oral (mg/kg) |
|-------------------------------|------------------|---------------|---------|-------------------------------|-------------------|------------------|
| 2-butoxyethanol | LD ₅₀ | 1746 | Rat | ATE - Acute Toxicity Estimate | | 1200 |
| sodium carbonate | LD ₅₀ | 2800 | Rat | OECD 401 (EU B.1) | | 2800 |
| sodium alkylbenzenesulphonate | LD ₅₀ | > 1470 | Rat | OECD 401 (EU B.1) | | 1470 |

Acute dermal toxicity

| Ingredient(s) | Endpoint | Value (mg/kg) | Species | Method | Exposure time (h) | ATE Dermal (mg/kg) |
|-------------------------------|------------------|-------------------|---------|------------------|-------------------|--------------------|
| 2-butoxyethanol | LD ₅₀ | 6411 | | Method not given | | Not established |
| sodium carbonate | LD ₅₀ | > 2000 | Rabbit | Method not given | | Not established |
| sodium alkylbenzenesulphonate | | No data available | | | | Not established |

Acute inhalative toxicity

| Ingredient(s) | Endpoint | Value (mg/l) | Species | Method | Exposure time (h) |
|-------------------------------|------------------|----------------------------------|---------|--------------------|-------------------|
| 2-butoxyethanol | LC ₅₀ | > 2 (mist) No mortality observed | Rat | Method not given | 4 |
| sodium carbonate | LC ₅₀ | > 2.3 (dust) | | Weight of evidence | 2 |
| sodium alkylbenzenesulphonate | | No data available | | | |

Acute inhalative toxicity, continued

| Ingredient(s) | ATE - inhalation, dust (mg/l) | ATE - inhalation, mist (mg/l) | ATE - inhalation, vapour (mg/l) | ATE - inhalation, gas (mg/l) |
|-------------------------------|-------------------------------|-------------------------------|---------------------------------|------------------------------|
| 2-butoxyethanol | Not established | Not established | 3 | Not established |
| sodium carbonate | Not established | Not established | Not established | Not established |
| sodium alkylbenzenesulphonate | Not established | Not established | Not established | Not established |

Irritation and corrosivity

Skin irritation and corrosivity

| Ingredient(s) | Result | Species | Method | Exposure time |
|-------------------------------|--------------|---------|-------------------|--------------------|
| 2-butoxyethanol | Irritant | Rabbit | OECD 404 (EU B.4) | 24; 48; 72 hour(s) |
| sodium carbonate | Not irritant | Rabbit | OECD 404 (EU B.4) | |
| sodium alkylbenzenesulphonate | Irritant | Rabbit | OECD 404 (EU B.4) | |

Eye irritation and corrosivity

| Ingredient(s) | Result | Species | Method | Exposure time |
|-------------------------------|---------------|---------|-------------------|--------------------|
| 2-butoxyethanol | Irritant | Rabbit | OECD 405 (EU B.5) | 24; 48; 72 hour(s) |
| sodium carbonate | Irritant | Rabbit | OECD 405 (EU B.5) | |
| sodium alkylbenzenesulphonate | Severe damage | Rabbit | OECD 405 (EU B.5) | |

Respiratory tract irritation and corrosivity

| Ingredient(s) | Result | Species | Method | Exposure time |
|-------------------------------|-------------------|---------|--------|---------------|
| 2-butoxyethanol | No data available | | | |
| sodium carbonate | No data available | | | |
| sodium alkylbenzenesulphonate | No data available | | | |

Sensitisation

Sensitisation by skin contact

| Ingredient(s) | Result | Species | Method | Exposure time (h) |
|-----------------|-----------------|------------|--------------------------|-------------------|
| 2-butoxyethanol | Not sensitising | Guinea pig | OECD 406 (EU B.6) / GPMT | |

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| | | | | |
|-------------------------------|-----------------|------------|--------------------------|--|
| sodium carbonate | Not sensitising | | Method not given | |
| sodium alkylbenzenesulphonate | Not sensitising | Guinea pig | OECD 406 (EU B.6) / GPMT | |

Sensitisation by inhalation

| Ingredient(s) | Result | Species | Method | Exposure time |
|-------------------------------|-------------------|---------|--------|---------------|
| 2-butoxyethanol | No data available | | | |
| sodium carbonate | No data available | | | |
| sodium alkylbenzenesulphonate | 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) |
|-------------------------------|---|--|---|--------------------|
| 2-butoxyethanol | No evidence for mutagenicity, negative test results | OECD 471 (EU B.12/13) OECD 476 (Chinese Hamster Ovary) | No evidence for mutagenicity, negative test results | OECD 474 (EU B.12) |
| sodium carbonate | No data available | | No data available | |
| sodium alkylbenzenesulphonate | No data available | | No data available | |

Carcinogenicity

| Ingredient(s) | Effect |
|-------------------------------|--|
| 2-butoxyethanol | No evidence for carcinogenicity, negative test results |
| sodium carbonate | No evidence for carcinogenicity, weight-of-evidence |
| sodium alkylbenzenesulphonate | 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 |
|-------------------------------|----------|-----------------|--------------------|---------|--------|---------------|------------------------------------|
| 2-butoxyethanol | | | No data available | | | | |
| sodium carbonate | | | No data available | | | | |
| sodium alkylbenzenesulphonate | | | 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 |
|-------------------------------|----------|--------------------|---------|--------|----------------------|--------------------------------------|
| 2-butoxyethanol | | No data available | | | | |
| sodium carbonate | | No data available | | | | |
| sodium alkylbenzenesulphonate | | 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 |
|-------------------------------|----------|--------------------|---------|--------|----------------------|--------------------------------------|
| 2-butoxyethanol | | No data available | | | | |
| sodium carbonate | | No data available | | | | |
| sodium alkylbenzenesulphonate | | 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 |
|-------------------------------|----------|--------------------|---------|--------|----------------------|--------------------------------------|
| 2-butoxyethanol | | No data available | | | | |
| sodium carbonate | | No data available | | | | |
| sodium alkylbenzenesulphonate | | 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 |
|---------------|----------------|----------|--------------------|---------|--------|---------------|--------------------------------------|--------|
|---------------|----------------|----------|--------------------|---------|--------|---------------|--------------------------------------|--------|

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| | | | | | | | | |
|-------------------------------|--|--|-------------------|--|--|--|--|--|
| 2-butoxyethanol | | | No data available | | | | | |
| sodium carbonate | | | No data available | | | | | |
| sodium alkylbenzenesulphonate | | | No data available | | | | | |

STOT-single exposure

| Ingredient(s) | Affected organ(s) |
|-------------------------------|-------------------|
| 2-butoxyethanol | No data available |
| sodium carbonate | Not applicable |
| sodium alkylbenzenesulphonate | No data available |

STOT-repeated exposure

| Ingredient(s) | Affected organ(s) |
|-------------------------------|-------------------|
| 2-butoxyethanol | No data available |
| sodium carbonate | Not applicable |
| sodium alkylbenzenesulphonate | No data available |

Aspiration hazard

Substances with an aspiration hazard (H304), if any, are listed in section 3.

Potential adverse health effects and symptoms

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

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

Endocrine disrupting properties - Human data, if available:

11.2.2 Other information

No other relevant information available.

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) |
|-------------------------------|------------------|--------------|----------------------------|--------------------|-------------------|
| 2-butoxyethanol | LC ₅₀ | > 100 | <i>Oncorhynchus mykiss</i> | OECD 203, static | 96 |
| sodium carbonate | LC ₅₀ | 300 | <i>Lepomis macrochirus</i> | Method not given | 96 |
| sodium alkylbenzenesulphonate | LC ₅₀ | 1.67 | <i>Lepomis macrochirus</i> | EPA-OPPTS 850.1075 | 96 |

Aquatic short-term toxicity - crustacea

| Ingredient(s) | Endpoint | Value (mg/l) | Species | Method | Exposure time (h) |
|-------------------------------|------------------|--------------|-----------------------------|------------------|-------------------|
| 2-butoxyethanol | EC ₅₀ | > 100 | <i>Daphnia magna</i> Straus | OECD 202, static | 48 |
| sodium carbonate | EC ₅₀ | 200-227 | <i>Ceriodaphnia dubia</i> | Method not given | 96 |
| sodium alkylbenzenesulphonate | EC ₅₀ | 1.62 | <i>Daphnia magna</i> Straus | | 48 |

Aquatic short-term toxicity - algae

| Ingredient(s) | Endpoint | Value (mg/l) | Species | Method | Exposure time (h) |
|-------------------------------|------------------|--------------|--|------------------|-------------------|
| 2-butoxyethanol | EC ₅₀ | > 100 | <i>Pseudokirchneriella subcapitata</i> | OECD 201, static | 72 |
| sodium carbonate | EC ₅₀ | > 800 | <i>Selenastrum capricornutum</i> | | 72 |
| sodium alkylbenzenesulphonate | EC ₅₀ | 29 | <i>Selenastrum capricornutum</i> | | 96 |

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Aquatic short-term toxicity - marine species

| Ingredient(s) | Endpoint | Value (mg/l) | Species | Method | Exposure time (days) |
|-------------------------------|----------|-------------------|---------|--------|----------------------|
| 2-butoxyethanol | | No data available | | | |
| sodium carbonate | | No data available | | | |
| sodium alkylbenzenesulphonate | | No data available | | | |

Impact on sewage plants - toxicity to bacteria

| Ingredient(s) | Endpoint | Value (mg/l) | Inoculum | Method | Exposure time |
|-------------------------------|------------------|-------------------|---------------------------|------------------|---------------|
| 2-butoxyethanol | EC ₅₀ | 700 | <i>Pseudomonas putida</i> | Method not given | 16 hour(s) |
| sodium carbonate | | No data available | | | |
| sodium alkylbenzenesulphonate | | No data available | | | |

Aquatic long-term toxicity

Aquatic long-term toxicity - fish

| Ingredient(s) | Endpoint | Value (mg/l) | Species | Method | Exposure time | Effects observed |
|-------------------------------|----------|-------------------|--------------------|------------------|---------------|------------------|
| 2-butoxyethanol | NOEC | > 100 | <i>Danio rerio</i> | OECD 204 | 21 day(s) | |
| sodium carbonate | | No data available | | | | |
| sodium alkylbenzenesulphonate | NOEC | > 2.5-1 | | Method not given | | |

Aquatic long-term toxicity - crustacea

| Ingredient(s) | Endpoint | Value (mg/l) | Species | Method | Exposure time | Effects observed |
|-------------------------------|----------|-------------------|----------------------|----------|---------------|------------------|
| 2-butoxyethanol | NOEC | 100 | <i>Daphnia magna</i> | OECD 211 | 21 day(s) | |
| sodium carbonate | | No data available | | | | |
| sodium alkylbenzenesulphonate | | 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 |
|-------------------------------|----------|---------------------------|---------|--------|----------------------|------------------|
| 2-butoxyethanol | | No data available | | | | |
| sodium carbonate | | No data available | | | | |
| sodium alkylbenzenesulphonate | | 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 | | | | |

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 | | | | |

Terrestrial toxicity - birds, if available:

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

Terrestrial toxicity - beneficial insects, if available:

| Ingredient(s) | Endpoint | Value | Species | Method | Exposure | Effects observed |
|---------------|----------|-------|---------|--------|----------|------------------|
|---------------|----------|-------|---------|--------|----------|------------------|

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| | | (mg/kg dw soil) | | | time (days) | |
|------------------|--|-------------------|--|--|-------------|--|
| sodium carbonate | | 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 | | | | |

12.2 Persistence and degradability**Abiotic degradation**

Abiotic degradation - photodegradation in air, if available:

| Ingredient(s) | Half-life time | Method | Evaluation | Remark |
|------------------|-------------------|--------|------------|--------|
| sodium carbonate | No data 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:

| Ingredient(s) | Type | Half-life time | Method | Evaluation | Remark |
|------------------|------|-------------------|--------|------------|--------|
| sodium carbonate | | No data available | | | |

Biodegradation

Ready biodegradability - aerobic conditions

| Ingredient(s) | Inoculum | Analytical method | DT ₅₀ | Method | Evaluation |
|-------------------------------|--------------------------|----------------------------|---------------------|-----------|--------------------------------------|
| 2-butoxyethanol | | CO ₂ production | 90.4 % in 28 day(s) | OECD 301B | Readily biodegradable |
| sodium carbonate | | | | | Not applicable (inorganic substance) |
| sodium alkylbenzenesulphonate | Activated sludge, aerobe | CO ₂ production | 85% in 29 day(s) | OECD 301B | Readily biodegradable |

Ready biodegradability - anaerobic and marine conditions, if available:

| Ingredient(s) | Medium & Type | Analytical method | DT ₅₀ | Method | Evaluation |
|------------------|---------------|-------------------|------------------|--------|-------------------|
| sodium carbonate | | | | | No data available |

Degradation in relevant environmental compartments, if available:

| Ingredient(s) | Medium & Type | Analytical method | DT ₅₀ | Method | Evaluation |
|------------------|---------------|-------------------|------------------|--------|-------------------|
| sodium carbonate | | | | | No data available |

12.3 Bioaccumulative potential

Partition coefficient n-octanol/water (log Kow)

| Ingredient(s) | Value | Method | Evaluation | Remark |
|-------------------------------|-------------------|----------|-----------------------------------|--------|
| 2-butoxyethanol | 0.81 | OECD 107 | Low potential for bioaccumulation | |
| sodium carbonate | No data available | | No bioaccumulation expected | |
| sodium alkylbenzenesulphonate | No data available | | | |

Bioconcentration factor (BCF)

| Ingredient(s) | Value | Species | Method | Evaluation | Remark |
|-------------------------------|-------------------|---------|--------|-----------------------------|--------|
| 2-butoxyethanol | No data available | | | | |
| sodium carbonate | No data available | | | No bioaccumulation expected | |
| sodium alkylbenzenesulphonate | 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 |
|------------------|--|--|--------|--------------------|--|
| 2-butoxyethanol | No data available | | | | Potential for mobility in soil, soluble in water |
| sodium carbonate | No data available | | | | Potential for mobility in soil, soluble in water |

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| | | | | | |
|-------------------------------|-------------------|--|--|--|--|
| sodium alkylbenzenesulphonate | 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 Endocrine disrupting properties

Endocrine disrupting properties - Environmental effects, if available:

12.7 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.

Suitable cleaning agents:

Water, if necessary with cleaning agent.

SECTION 14: Transport information**Land transport (ADR/RID), Sea transport (IMDG), Air transport (ICAO-TI / IATA-DGR)**

14.1 UN number or ID number: Non-dangerous goods

14.2 UN proper shipping name: Non-dangerous goods

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

14.4 Packing group: Non-dangerous goods

14.5 Environmental hazards: Non-dangerous goods

14.6 Special precautions for user: Non-dangerous goods

14.7 Maritime transport in bulk according to IMO instruments: 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
- substances identified as having endocrine disrupting properties in accordance with the criteria set out in Delegated Regulation (EU) 2017/2100 or Regulation (EU) 2018/605
- Agreement concerning the International Carriage of Dangerous Goods by Road (ADR)
- International Maritime Dangerous Goods (IMDG) Code

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, non-ionic surfactants
perfumes

< 5 %

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.

Seveso - Classification: Not classified

National regulations :

- Information on employment restrictions: Youth Labour Protection Act (JArbSchG)

Klassifizierung nach Betriebssicherheitsverordnung (BetrSichV): -

Lagerklasse gemäß TRGS 510: Lagerklasse 12: Nichtbrennbare Flüssigkeiten

WGK classification: Wassergefährdungsklasse 1 (Selbsteinstufung nach Anlage 1 § 5.2 AwSV): schwach wassergefährdend.

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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This data sheet contains changes from the previous version in section(s):, 3, 4, 6, 16

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.

Abbreviations and acronyms:

- AISE - The international Association for Soaps, Detergents and Maintenance Products
- ATE - Acute Toxicity Estimate
- DNEL - Derived No Effect Limit
- EC50 - effective concentration, 50%
- ERC - Environmental release categories
- EUH - CLP Specific hazard statement
- LC50 - Lethal Concentration, 50% / Median Lethal Concentration
- LCS - Life cycle stage
- LD50 - Lethal Dose, 50% / Median Lethal dose
- NOAEL - No observed adverse effect level
- NOEL - No observed effect level
- OECD - Organisation for Economic Cooperation and Development
- PBT - Persistent, Bioaccumulative and Toxic
- PNEC - Predicted No Effect Concentration
- PROC - Process categories
- REACH number - REACH registration number, without supplier specific part
- vPvB - very Persistent and very Bioaccumulative
- H302 - Harmful if swallowed.
- H315 - Causes skin irritation.
- H318 - Causes serious eye damage.
- H319 - Causes serious eye irritation.
- H331 - Toxic if inhaled.
- H332 - Harmful if inhaled.
- H412 - Harmful to aquatic life with long lasting effects.

End of Safety Data Sheet