

ZENITH 5P ULTRA FLOOR CLEANER

Revision: 2022-06-05

Version: 02.0

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

1.1 Product identifier

Trade name: ZENITH 5P ULTRA FLOOR CLEANER

UFI: 9MYF-51RU-G00E-QYN2

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

Product use: Floor 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_8a_1
AISE_SWED_PW_8b_1
AISE_SWED_PW_4_1
AISE_SWED_PW_11_1
AISE_SWED_PW_19_1

1.3 Details of the supplier of the safety data sheet

Diversey Ltd, Weston Favell Centre, Northampton NN3 8PD, United Kingdom

Contact details

Zenith Hygiene Group
A1M Business Centre Dixons Hill Road Welham Green
Herts AL9 7JE
www.zhgplc.com
01707 270260
customer-care-zenith@diversey.com

1.4 Emergency telephone number

Seek medical advice (show the label or safety data sheet where possible)
For medical or environmental emergency only:
call 0800 052 0185

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Skin Irrit. 2 (H315)
Eye Dam. 1 (H318)

2.2 Label elements



Signal word: Danger.

Contains alkyl alcohol ethoxylate (C9-11 Pareth-5-10), potassium hydroxide (Potassium Hydroxide)

Hazard statements:

H315 - Causes skin irritation.
H318 - Causes serious eye damage.

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.

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Continue rinsing.

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

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 |
|--|-----------|-------------|------------------|--|-------|----------------|
| alkyl alcohol ethoxylate | [4] | 68439-46-3 | [4] | Acute Tox. 4 (H302) Eye Dam. 1 (H318) | | 3-10 |
| sodium cumenesulphonate | 239-854-6 | - | 01-2119489411-37 | Eye Irrit. 2 (H319) | | 1-3 |
| potassium hydroxide | 215-181-3 | 1310-58-3 | 01-2119487136-33 | Skin Corr. 1A (H314) Acute Tox. 4 (H302) Met. Corr. 1 (H290) | | 1-3 |
| Alcohols, C12-15-branched and linear, ethoxylated propoxylated | [4] | 120313-48-6 | [4] | Skin Irrit. 2 (H315) Aquatic Acute 1 (H400) Aquatic Chronic 3 (H412) | | 1-3 |

Specific concentration limits

potassium hydroxide:

- Eye Dam. 1 (H318) >= 2% > Eye Irrit. 2 (H319) >= 1%
- Skin Corr. 1A (H314) >= 5% > Skin Corr. 1B (H314) >= 2% > Skin Irrit. 2 (H315) >= 0.5%

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

ATE, if available, are listed in section 11.

[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 reuse.

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

6.1 Personal precautions, protective equipment and emergency procedures

Wear eye/face protection. Repeated or prolonged contact: Wear suitable gloves.

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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, sawdust). 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:

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. Wash face, hands and any exposed skin thoroughly after handling. Take off contaminated clothing. Wash contaminated clothing before reuse. Avoid contact with skin and 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) | UK - Long term value(s) | UK - Short term value(s) |
|---------------------|-------------------------|--------------------------|
| potassium hydroxide | | 2 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 |
|--|----------------------------|-------------------------------|---------------------------|------------------------------|
| alkyl alcohol ethoxylate | - | - | - | - |
| sodium cumenesulphonate | - | - | - | 3.8 |
| potassium hydroxide | - | - | - | - |
| Alcohols, C12-15-branched and linear, ethoxylated propoxylated | No data available | No data available | No data available | No data available |

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) |
|--|----------------------------|--|---------------------------|---|
| alkyl alcohol ethoxylate | - | - | - | - |
| sodium cumenesulphonate | No data available | - | No data available | 7.6 |
| potassium hydroxide | No data available | - | No data available | - |
| Alcohols, C12-15-branched and linear, ethoxylated propoxylated | No data available | No data available | 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) |
|--------------------------|----------------------------|--|---------------------------|---|
| alkyl alcohol ethoxylate | - | - | - | - |
| sodium cumenesulphonate | No data available | - | No data available | 3.8 |

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| | | | | |
|--|-------------------|-------------------|-------------------|-------------------|
| potassium hydroxide | No data available | - | No data available | - |
| Alcohols, C12-15-branched and linear, ethoxylated propoxylated | No data available | No data available | 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 |
|--|----------------------------|-------------------------------|---------------------------|------------------------------|
| alkyl alcohol ethoxylate | - | - | - | - |
| sodium cumenesulphonate | - | - | - | 53.6 |
| potassium hydroxide | - | - | 1 | - |
| Alcohols, C12-15-branched and linear, ethoxylated propoxylated | No data available | No data available | No data available | No data available |

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 |
|--|----------------------------|-------------------------------|---------------------------|------------------------------|
| alkyl alcohol ethoxylate | - | - | - | - |
| sodium cumenesulphonate | - | - | - | 13.2 |
| potassium hydroxide | - | - | 1 | - |
| Alcohols, C12-15-branched and linear, ethoxylated propoxylated | 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) |
|--|-----------------------------|------------------------------|---------------------|-------------------------------|
| alkyl alcohol ethoxylate | - | - | - | - |
| sodium cumenesulphonate | 0.23 | 0.023 | 2.3 | 100 |
| potassium hydroxide | - | - | - | - |
| Alcohols, C12-15-branched and linear, ethoxylated propoxylated | 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) |
|--|------------------------------|--------------------------|-------------------|--------------------------|
| alkyl alcohol ethoxylate | - | - | - | - |
| sodium cumenesulphonate | 0.862 | 0.086 | 0.037 | - |
| potassium hydroxide | - | - | - | - |
| Alcohols, C12-15-branched and linear, ethoxylated propoxylated | 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: If the product is diluted by using specific dosing systems with no risk of splashes or direct skin contact, the personal protection equipment as described in this section is not required.

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

REACH use scenarios considered for the undiluted product:

| | SWED - Sector-specific worker exposure description | LCS | PROC | Duration (min) | ERC |
|------------------------------|--|-----|---------|----------------|-------|
| Manual transfer and dilution | AISE_SWED_PW_8a_1 | PW | PROC 8a | 60 | ERC8a |
| Manual transfer and dilution | AISE_SWED_PW_8b_1 | PW | PROC 8b | 60 | ERC8b |

Personal protective equipment

Eye / face protection:

Safety glasses or goggles (EN 166).

Hand protection:

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

Repeated or prolonged contact: 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.

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Environmental exposure controls: No special requirements under normal use conditions.

Recommended safety measures for handling the diluted product:

Recommended maximum concentration (% w/w): 5

Appropriate engineering controls: Provide a good standard of general ventilation.

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

REACH use scenarios considered for the diluted product:

| | SWED | LCS | PROC | Duration (min) | ERC |
|---|-------------------|-----|---------|----------------|-------|
| Spray application | AISE_SWED_PW_11_1 | PW | PROC 11 | 60 | ERC8a |
| Manual application | AISE_SWED_PW_19_1 | PW | PROC 19 | 480 | ERC8a |
| Automatic application in a dedicated system | AISE_SWED_PW_4_1 | PW | PROC 4 | 480 | ERC8a |

Personal protective equipment

Eye / face protection:

No special requirements under normal use conditions.

Hand protection:

No special requirements under normal use conditions.

Body protection:

No special requirements under normal use conditions.

Respiratory protection:

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

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

Substance data, boiling point

| Ingredient(s) | Value (°C) | Method | Atmospheric pressure (hPa) |
|--|-----------------------------------|------------------|----------------------------|
| alkyl alcohol ethoxylate | > 232.2 | Method not given | |
| sodium cumenesulphonate | > 100 | Method not given | |
| potassium hydroxide | Not applicable to solids or gases | Method not given | |
| Alcohols, C12-15-branched and linear, ethoxylated propoxylated | > 250 | Method not given | |

| | Method / remark |
|--|--------------------|
| Flammability (solid, gas): Not applicable to liquids | |
| Flammability (liquid): Not flammable. | |
| Flash point (°C): > 60 °C | closed cup |
| Sustained combustion: The product does not sustain combustion (UN Manual of Tests and Criteria, section 32, L.2) | Weight of evidence |
| Lower and upper explosion limit/flammability limit (%): Not determined | |

Substance data, flammability or explosive limits, if available:

| | Method / remark |
|---|-----------------|
| Autoignition temperature: Not determined | |
| Decomposition temperature: Not applicable. | |
| pH: >= 11.5 (neat) | ISO 4316 |
| Dilution pH: > 11 (5 %) | 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) |
|--------------------------|-------------------|------------------|------------------|
| alkyl alcohol ethoxylate | 100 Soluble | Method not given | |
| sodium cumenesulphonate | Soluble | | |
| potassium hydroxide | No data available | | |

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| | | | |
|--|-----------|--|--|
| Alcohols, C12-15-branched and linear, ethoxylated propoxylated | Insoluble | | |
|--|-----------|--|--|

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

Vapour pressure: Not determined

Method / remark

See substance data

Substance data, vapour pressure

| Ingredient(s) | Value (Pa) | Method | Temperature (°C) |
|--|-------------------|------------------|------------------|
| alkyl alcohol ethoxylate | < 10 | Method not given | 37.8 |
| sodium cumenesulphonate | No data available | | |
| potassium hydroxide | Negligible | Method not given | |
| Alcohols, C12-15-branched and linear, ethoxylated propoxylated | < 10 | Method not given | 20 |

Relative density: ≈ 1.06 (20 °C)

Relative vapour density: -1 mg/m³

-2 ppm.

Particle characteristics: No data available.

Method / remark

OECD 109 (EU A.3)

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. Vapours may form explosive mixtures with air.

Oxidising properties: Not oxidising.

Corrosion to metals: Not corrosive

9.2.2 Other safety characteristics

No other relevant information 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) | ATE (mg/kg) |
|--------------------------|------------------|---------------|---------|--------------------|-------------------|-----------------|
| alkyl alcohol ethoxylate | LD ₅₀ | 1400 | Rat | Weight of evidence | | 14000 |
| sodium cumenesulphonate | LD ₅₀ | > 7000 | Rat | Method not given | | Not established |
| potassium hydroxide | LD ₅₀ | 333 | Rat | OECD 425 | | 26000 |

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| | | | | | |
|--|------------------|--------|-----|------------------|--------|
| Alcohols, C12-15-branched and linear, ethoxylated propoxylated | LD ₅₀ | > 2000 | Rat | Method not given | 250000 |
|--|------------------|--------|-----|------------------|--------|

Acute dermal toxicity

| Ingredient(s) | Endpoint | Value (mg/kg) | Species | Method | Exposure time (h) | ATE (mg/kg) |
|--|------------------|-------------------|---------|--------------------|-------------------|-----------------|
| alkyl alcohol ethoxylate | LD ₅₀ | 2000 - 5000 | Rat | Weight of evidence | | Not established |
| sodium cumenesulphonate | LD ₅₀ | > 2000 | Rabbit | Method not given | | Not established |
| potassium hydroxide | | No data available | | | | Not established |
| Alcohols, C12-15-branched and linear, ethoxylated propoxylated | | No data available | | | | Not established |

Acute inhalative toxicity

| Ingredient(s) | Endpoint | Value (mg/l) | Species | Method | Exposure time (h) |
|--|------------------|-------------------|---------|------------------|-------------------|
| alkyl alcohol ethoxylate | | No data available | | | |
| sodium cumenesulphonate | LC ₅₀ | > 770 | Rat | Method not given | 4 |
| potassium hydroxide | | No data available | | | |
| Alcohols, C12-15-branched and linear, ethoxylated propoxylated | | 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) |
|--|-------------------------------|-------------------------------|---------------------------------|------------------------------|
| alkyl alcohol ethoxylate | Not established | Not established | Not established | Not established |
| sodium cumenesulphonate | Not established | Not established | Not established | Not established |
| potassium hydroxide | Not established | Not established | Not established | Not established |
| Alcohols, C12-15-branched and linear, ethoxylated propoxylated | Not established | Not established | Not established | Not established |

Irritation and corrosivity

Skin irritation and corrosivity

| Ingredient(s) | Result | Species | Method | Exposure time |
|--|---------------|---------|--------------------|---------------|
| alkyl alcohol ethoxylate | Not irritant | | Weight of evidence | |
| sodium cumenesulphonate | Mild irritant | Rabbit | OECD 404 (EU B.4) | |
| potassium hydroxide | Corrosive | Rabbit | Draize test | |
| Alcohols, C12-15-branched and linear, ethoxylated propoxylated | Irritant | Rabbit | Draize test | |

Eye irritation and corrosivity

| Ingredient(s) | Result | Species | Method | Exposure time |
|--|---------------------------|---------|--------------------------------|---------------|
| alkyl alcohol ethoxylate | Severe damage | Rabbit | Weight of evidence OECD 437 | |
| sodium cumenesulphonate | Irritant | Rabbit | OECD 405 (EU B.5) | |
| potassium hydroxide | Corrosive | Rabbit | Method not given | |
| Alcohols, C12-15-branched and linear, ethoxylated propoxylated | Not corrosive or irritant | Rabbit | Draize test | |

Respiratory tract irritation and corrosivity

| Ingredient(s) | Result | Species | Method | Exposure time |
|--|-------------------|---------|--------|---------------|
| alkyl alcohol ethoxylate | No data available | | | |
| sodium cumenesulphonate | No data available | | | |
| potassium hydroxide | No data available | | | |
| Alcohols, C12-15-branched and linear, ethoxylated propoxylated | No data available | | | |

Sensitisation

Sensitisation by skin contact

| Ingredient(s) | Result | Species | Method | Exposure time (h) |
|--|-------------------|------------|-----------------------------|-------------------|
| alkyl alcohol ethoxylate | Not sensitising | | Weight of evidence | |
| sodium cumenesulphonate | Not sensitising | Guinea pig | OECD 406 (EU B.6) / GPMT | |
| potassium hydroxide | Not sensitising | Guinea pig | Method not given | |
| Alcohols, C12-15-branched and linear, ethoxylated propoxylated | No data available | | | |

Sensitisation by inhalation

| Ingredient(s) | Result | Species | Method | Exposure time |
|--------------------------|-------------------|---------|--------|---------------|
| alkyl alcohol ethoxylate | No data available | | | |

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| | | | |
|--|-------------------|--|--|
| sodium cumenesulphonate | No data available | | |
| potassium hydroxide | No data available | | |
| Alcohols, C12-15-branched and linear, ethoxylated propoxylated | 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) |
|--|---|-------------------|---|--------------------|
| alkyl alcohol ethoxylate | No evidence for mutagenicity, negative test results | OECD 473 | No data available | |
| sodium cumenesulphonate | No evidence for mutagenicity, negative test results | Method not given | No evidence for mutagenicity, negative test results | OECD 474 (EU B.12) |
| potassium hydroxide | No evidence for mutagenicity, negative test results | Method not given | No data available | |
| Alcohols, C12-15-branched and linear, ethoxylated propoxylated | No data available | | No data available | |

Carcinogenicity

| Ingredient(s) | Effect |
|--|--|
| alkyl alcohol ethoxylate | No evidence for carcinogenicity, negative test results |
| sodium cumenesulphonate | No evidence for carcinogenicity, negative test results |
| potassium hydroxide | No evidence for carcinogenicity, negative test results |
| Alcohols, C12-15-branched and linear, ethoxylated propoxylated | 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 |
|--|----------|---------------------|--------------------|---------|--------------------|---------------|---|
| alkyl alcohol ethoxylate | NOAEL | | > 250 | Rat | Not known | | No effects on fertility No developmental toxicity |
| sodium cumenesulphonate | NOAEL | Teratogenic effects | > 3000 | Rat | Non guideline test | | |
| potassium hydroxide | | | No data available | | | | No evidence for reproductive toxicity |
| Alcohols, C12-15-branched and linear, ethoxylated propoxylated | | | 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 |
|--|----------|--------------------|---------|--------------------|----------------------|--------------------------------------|
| alkyl alcohol ethoxylate | NOAEL | 80 - 400 | | OECD 408 (EU B.26) | | |
| sodium cumenesulphonate | NOAEL | 763 - 3534 | | OECD 408 (EU B.26) | 90 | |
| potassium hydroxide | | No data available | | | | |
| Alcohols, C12-15-branched and linear, ethoxylated propoxylated | | 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 |
|--|----------|--------------------|---------|--------------------|----------------------|--------------------------------------|
| alkyl alcohol ethoxylate | NOAEL | 80 | | OECD 411 (EU B.28) | 90 | |
| sodium cumenesulphonate | NOAEL | 440 | Mouse | Method not given | 90 | |
| potassium hydroxide | | No data available | | | | |
| Alcohols, C12-15-branched and linear, ethoxylated propoxylated | | 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 |
|--|----------|--------------------|---------|--------|----------------------|--------------------------------------|
| alkyl alcohol ethoxylate | | No data available | | | | |
| sodium cumenesulphonate | | No data available | | | | |
| potassium hydroxide | | No data available | | | | |
| Alcohols, C12-15-branched and linear, ethoxylated propoxylated | | No data available | | | | |

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Chronic toxicity

| Ingredient(s) | Exposure route | Endpoint | Value (mg/kg bw/d) | Species | Method | Exposure time | Specific effects and organs affected | Remark |
|--|----------------|----------|--------------------|---------|------------------|---------------|--------------------------------------|--------|
| alkyl alcohol ethoxylate | | | No data available | | | | | |
| sodium cumenesulphonate | Dermal | NOAEL | 727 | Mouse | Method not given | 24 month(s) | | |
| potassium hydroxide | | | No data available | | | | | |
| Alcohols, C12-15-branched and linear, ethoxylated propoxylated | | | No data available | | | | | |

STOT-single exposure

| Ingredient(s) | Affected organ(s) |
|--|-------------------|
| alkyl alcohol ethoxylate | No data available |
| sodium cumenesulphonate | No data available |
| potassium hydroxide | No data available |
| Alcohols, C12-15-branched and linear, ethoxylated propoxylated | No data available |

STOT-repeated exposure

| Ingredient(s) | Affected organ(s) |
|--|-------------------|
| alkyl alcohol ethoxylate | No data available |
| sodium cumenesulphonate | No data available |
| potassium hydroxide | No data available |
| Alcohols, C12-15-branched and linear, ethoxylated propoxylated | 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) |
|--|------------------|--------------|------------------------|----------------------------|-------------------|
| alkyl alcohol ethoxylate | LC ₅₀ | 5 - 7 | <i>Fish</i> | 92/69/EEC, C1, semi-static | 96 |
| sodium cumenesulphonate | LC ₅₀ | > 1000 | <i>Fish</i> | EPA-OPPTS 850.1075 | 96 |
| potassium hydroxide | LC ₅₀ | 80 | <i>Various species</i> | Weight of evidence | 24 |
| Alcohols, C12-15-branched and linear, ethoxylated propoxylated | LC ₅₀ | > 1-10 | <i>Fish</i> | OECD 203 (EU C.1) | 96 |

Aquatic short-term toxicity - crustacea

| Ingredient(s) | Endpoint | Value (mg/l) | Species | Method | Exposure time (h) |
|--|------------------|--------------|-----------------------------|--------------------|-------------------|
| alkyl alcohol ethoxylate | EC ₅₀ | 5.3 | <i>Daphnia</i> | 92/69/EEC | 48 |
| sodium cumenesulphonate | EC ₅₀ | > 1000 | <i>Daphnia</i> | EPA-OPPTS 850.1010 | 48 |
| potassium hydroxide | EC ₅₀ | 30 - 1000 | <i>Daphnia magna Straus</i> | Weight of evidence | |
| Alcohols, C12-15-branched and linear, ethoxylated propoxylated | EC ₅₀ | ≤ 1 | <i>Daphnia magna Straus</i> | OECD 202 (EU C.2) | 48 |

Aquatic short-term toxicity - algae

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

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| | | (mg/l) | | | time (h) |
|--|--------------------------------|-------------------|--------------------------------|-------------------|---|
| alkyl alcohol ethoxylate | EC ₅₀ | 1.4 - 47 | Not specified | 92/69/EEC | 72 |
| sodium cumenesulphonate | E _r C ₅₀ | 310 | Not specified | | 72 |
| potassium hydroxide | | No data available | | | |
| Alcohols, C12-15-branched and linear, ethoxylated propoxylated | EC ₅₀ | ≤ 1 | <i>Desmodesmus subspicatus</i> | OECD 201 (EU C.3) | RM000517/ RM002677 BASF EU RSDS 2021 |

Aquatic short-term toxicity - marine species

| Ingredient(s) | Endpoint | Value (mg/l) | Species | Method | Exposure time (days) |
|--|----------|-------------------|---------|--------|----------------------|
| alkyl alcohol ethoxylate | | No data available | | | |
| sodium cumenesulphonate | | No data available | | | |
| potassium hydroxide | | No data available | | | |
| Alcohols, C12-15-branched and linear, ethoxylated propoxylated | | No data available | | | |

Impact on sewage plants - toxicity to bacteria

| Ingredient(s) | Endpoint | Value (mg/l) | Inoculum | Method | Exposure time |
|--|--------------------------------|-------------------|-----------------------------------|-------------------------------------|---------------|
| alkyl alcohol ethoxylate | EC ₅₀ | > 140 | <i>Bacteria</i> | DIN EN ISO 8192-OECD 209-88/302/EEC | 3 hour(s) |
| sodium cumenesulphonate | E _r C ₅₀ | > 1000 | <i>Bacteria</i> | OECD 209 | 3 hour(s) |
| potassium hydroxide | EC ₅₀ | 22 | <i>Photobacterium phosphoreum</i> | Method not given | 15 minute(s) |
| Alcohols, C12-15-branched and linear, ethoxylated propoxylated | | No data available | | | |

Aquatic long-term toxicity

Aquatic long-term toxicity - fish

| Ingredient(s) | Endpoint | Value (mg/l) | Species | Method | Exposure time | Effects observed |
|--|------------------|-------------------|---------------|------------------|---------------|------------------|
| alkyl alcohol ethoxylate | EC ₁₀ | 8.983 | Not specified | Method not given | 21 day(s) | |
| sodium cumenesulphonate | | No data available | | | | |
| potassium hydroxide | | No data available | | | | |
| Alcohols, C12-15-branched and linear, ethoxylated propoxylated | | No data available | | | | |

Aquatic long-term toxicity - crustacea

| Ingredient(s) | Endpoint | Value (mg/l) | Species | Method | Exposure time | Effects observed |
|--|------------------|-------------------|----------------------|------------------|---------------|------------------|
| alkyl alcohol ethoxylate | EC ₁₀ | 2.579 | <i>Daphnia sp.</i> | Method not given | 21 day(s) | |
| sodium cumenesulphonate | | No data available | | | | |
| potassium hydroxide | | No data available | | | | |
| Alcohols, C12-15-branched and linear, ethoxylated propoxylated | NOEC | > 0.1-1 | <i>Daphnia magna</i> | Method not given | 21 day(s) | |

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 |
|--|----------|---------------------------|---------|--------|----------------------|------------------|
| alkyl alcohol ethoxylate | | No data available | | | | |
| sodium cumenesulphonate | | No data available | | | | |
| potassium hydroxide | | No data available | | | | |
| Alcohols, C12-15-branched and linear, ethoxylated propoxylated | | No data available | | | | |

Terrestrial toxicity

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

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

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| | | (mg/kg dw soil) | | | time (days) | |
|-------------------------|--|-------------------|--|--|-------------|--|
| sodium cumenesulphonate | | No data available | | | | |
| potassium hydroxide | | No data available | | | | |

Terrestrial toxicity - plants, if available:

| Ingredient(s) | Endpoint | Value (mg/kg dw soil) | Species | Method | Exposure time (days) | Effects observed |
|-------------------------|----------|-----------------------|---------|--------|----------------------|------------------|
| sodium cumenesulphonate | | No data available | | | | |
| potassium hydroxide | | No data available | | | | |

Terrestrial toxicity - birds, if available:

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

Abiotic degradation - hydrolysis, if available:

| Ingredient(s) | Half-life time in fresh water | Method | Evaluation | Remark |
|-------------------------|-------------------------------|--------|------------|--------|
| sodium cumenesulphonate | No data available | | | |
| potassium hydroxide | No data available | | | |

Abiotic degradation - other processes, if available:

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

Biodegradation

Ready biodegradability - aerobic conditions

| Ingredient(s) | Inoculum | Analytical method | DT ₅₀ | Method | Evaluation |
|--|--------------------------|----------------------------|--------------------|-----------|--------------------------------------|
| alkyl alcohol ethoxylate | | | | OECD 301B | Readily biodegradable |
| sodium cumenesulphonate | Activated sludge, aerobe | CO ₂ production | 100 % in 28 day(s) | OECD 301B | Readily biodegradable |
| potassium hydroxide | | | | | Not applicable (inorganic substance) |
| Alcohols, C12-15-branched and linear, ethoxylated propoxylated | Activated sludge, aerobe | CO ₂ production | > 60% in 28 day(s) | OECD 301B | Readily biodegradable |

Ready biodegradability - anaerobic and marine conditions, if available:

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

Degradation in relevant environmental compartments, if available:

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

12.3 Bioaccumulative potential

Partition coefficient n-octanol/water (log Kow)

| Ingredient(s) | Value | Method | Evaluation | Remark |
|--|-------------------|------------------|--------------------------------------|--------|
| alkyl alcohol ethoxylate | 3.11 - 4.19 | Method not given | High potential for bioaccumulation | |
| sodium cumenesulphonate | -1.5 | Method not given | Low potential for bioaccumulation | |
| potassium hydroxide | No data available | | Not relevant, does not bioaccumulate | |
| Alcohols, C12-15-branched and linear, ethoxylated propoxylated | No data available | | | |

Bioconcentration factor (BCF)

| Ingredient(s) | Value | Species | Method | Evaluation | Remark |
|--|-------------------|---------|------------------|------------------------------------|--------|
| alkyl alcohol ethoxylate | < 500 | | Method not given | High potential for bioaccumulation | |
| sodium cumenesulphonate | 3.16 | | QSAR | Low potential for bioaccumulation | |
| potassium hydroxide | No data available | | | | |
| Alcohols, C12-15-branched and linear, ethoxylated propoxylated | 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 |
|--|--|---|--------|--------------------|--|
| alkyl alcohol ethoxylate | No data available | | | | Potential for mobility in soil, soluble in water |
| sodium cumenesulphonate | No data available | | | | |
| potassium hydroxide | No data available | | | | Low potential for adsorption to soil |
| Alcohols, C12-15-branched and linear, ethoxylated propoxylated | 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:

European Waste Catalogue:

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.
20 01 29* - detergents containing dangerous substances.

Empty packaging

Recommendation:

Suitable cleaning agents:

Dispose of observing national or local regulations.

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: Non-dangerous goods

14.2 UN proper shipping name: Non-dangerous goods

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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

National regulations :

- Regulation (EC) 1907/2006 - REACH (UK amended)
- Regulation (EC) 1272/2008 - CLP (UK amended)
- Regulation (EC) 648/2004 - Detergents regulation (UK amended)
- Delegated Regulation (EU) 2017/2100 and Regulation (EU) 2018/605 (UK amended)
- 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 Detergents Regulation

non-ionic surfactants, phosphates, anionic surfactants, soap

< 5 %

The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) 648/2004 on detergents (UK amended). Data to support this assertion are held at the disposal of the competent authorities of the UK and will be made available to them, at their direct request or at the request of a detergent manufacturer.

Comah - classification: Not classified

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

SDS code: MS1005017

Version: 02.0

Revision: 2022-06-05

Reason for revision:

This data sheet contains changes from the previous version in section(s):, Overall design adjusted in accordance with Amendment 2020/878, Annex II of Regulation (EC) No 1907/2006, 2, 3, 4, 6, 8, 9, 11, 12, 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.

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

- H290 - May be corrosive to metals.
- H302 - Harmful if swallowed.
- H314 - Causes severe skin burns and eye damage.
- H315 - Causes skin irritation.
- H318 - Causes serious eye damage.
- H319 - Causes serious eye irritation.
- H400 - Very toxic to aquatic life.
- H412 - Harmful to aquatic life with long lasting effects.

Abbreviations and acronyms:

- AISE - The International Association for Soaps, Detergents and Maintenance Products
- 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

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- 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

End of Safety Data Sheet