# Safety Data Sheet

*According to Regulation (EC) No 1907/2006*

## Acifoam VF10

**Revision:** 2021-11-19 **Version:** 07.1

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

**1.1 Product identifier**
**Trade name:** Acifoam VF10

UFI: YEX3-H0U4-C00M-Y6ES

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

| | |
|---|---|
| **Product use:** | Descaling agent.<br>Open plant cleaning chemical.<br>For industrial use only.. |
| **Uses advised against:** | Uses other than those identified are not recommended. |

**SWED - Sector-specific worker exposure description :**
AISE_SWED_IS_1_1
AISE_SWED_IS_8b_1
AISE_SWED_IS_4_1
AISE_SWED_IS_7_4
AISE_SWED_IS_7_5

**1.3 Details of the supplier of the safety data sheet**
Diversey Europe Operations BV, Maarssenbroeksedijk 2, 3542DN Utrecht, The Netherlands

**Contact details**
Diversey Ltd
Weston Favell Centre, Northampton NN3 8PD, United Kingdom
Tel: 01604 405311, Fax: 01604 406809
Regulatory Email: customerservice.uk@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 Corr. 1B (H314)
Eye Dam. 1 (H318)
Met. Corr. 1 (H290)

**2.2 Label elements**

**Signal word:** Danger.

Contains phosphoric acid (Phosphoric Acid), alkylbenzenesulphonic acid (Dodecylbenzene Sulfonic Acid)

**Hazard statements:**
H314 - Causes severe skin burns and eye damage.
H290 - May be corrosive to metals.

**Precautionary statements:**
P280 - Wear protective gloves, protective clothing and eye or face protection.
P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.

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.

## SECTION 3: Composition/information on ingredients

**3.2 Mixtures**

| Ingredient(s) | EC number | CAS number | REACH number | Classification | Notes | Weight percent |
|---|---|---|---|---|---|---|
| phosphoric acid | 231-633-2 | 7664-38-2 | 01-2119485924-24 | Skin Corr. 1B (H314)<br>Eye Dam. 1 (H318)<br>Met. Corr. 1 (H290) | | 30-50 |
| alkylbenzenesulphonic acid | 287-494-3 | 85536-14-7 | 01-2119490234-40 | Skin Corr. 1C (H314)<br>Acute Tox. 4 (H302)<br>Eye Dam. 1 (H318)<br>Aquatic Chronic 3 (H412) | | 3-10 |
| propan-2-ol | 200-661-7 | 67-63-0 | 01-2119457558-25 | Flam. Liq. 2 (H225)<br>STOT SE 3 (H336)<br>Eye Irrit. 2 (H319) | | 1-3 |
| sodium cumenesulphonate | 239-854-6 | - | 01-2119489411-37 | Eye Irrit. 2 (H319) | | 1-3 |

**Specific concentration limits**
phosphoric acid:
• Eye Dam. 1 (H318) >= 25% > Eye Irrit. 2 (H319) >= 10%
• Skin Corr. 1B (H314) >= 25% > Skin Irrit. 2 (H315) >= 10%

Workplace exposure limit(s), if available, are listed in subsection 8.1.
ATE, if available, are listed in section 11.
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**

**General Information:** If unconscious place in recovery position and seek medical advice. Provide fresh air. If breathing is irregular or stopped, administer artificial respiration. No mouth-to-mouth or mouth-to-nose resuscitation. Use Ambu bag or ventilator.

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

**Skin contact:** Wash skin with plenty of lukewarm, gently flowing water for at least 30 minutes. Take off immediately all contaminated clothing and wash it before reuse. Immediately call a POISON CENTRE, doctor or physician.

**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. Do NOT induce vomiting. Keep at rest. Immediately call a POISON CENTRE, doctor or physician.

**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 severe burns.

**Eye contact:** Causes severe or permanent damage.

**Ingestion:** Ingestion will lead to a strong caustic effect on mouth and throat and to the danger of perforation of oesophagus and stomach.

**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 suitable protective clothing. Wear eye/face protection. Wear suitable gloves.

**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. Use neutralising agent. 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 unless adviced by Diversey. Wash face, hands and any exposed skin thoroughly after handling. Take off immediately all contaminated clothing. Wash contaminated clothing before reuse. Avoid contact with skin and eyes. Use only with adequate ventilation. See chapter 8.2, Exposure controls / Personal protection.

**7.2 Conditions for safe storage, including any incompatibilities**
Store in accordance with local and national regulations. Store in a closed container. Keep only in original packaging.
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) |
|---|---|---|
| phosphoric acid | 1 mg/m³ | 2 mg/m³ |
| propan-2-ol | 400 ppm<br>999 mg/m³ | 500 ppm<br>1250 mg/m³ |

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 |
|---|---|---|---|---|
| phosphoric acid | - | - | - | - |
| alkylbenzenesulphonic acid | - | - | - | 0.425 |
| propan-2-ol | - | - | - | 26 |
| sodium cumenesulphonate | - | - | - | 3.8 |

DNEL dermal exposure - Worker

| Ingredient(s) | Short term - Local effects | Short term - Systemic effects (mg/kg bw) | Long term - Local effects | Long term - Systemic effects (mg/kg bw) |
|---|---|---|---|---|
| phosphoric acid | No data available | - | No data available | - |

| | | | | |
|---|---|---|---|---|
| alkylbenzenesulphonic acid | - | - | - | 85 |
| propan-2-ol | No data available | - | No data available | 888 |
| sodium cumenesulphonate | No data available | - | No data available | 7.6 |

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) |
|---|---|---|---|---|
| phosphoric acid | No data available | - | No data available | - |
| alkylbenzenesulphonic acid | - | - | - | 42.5 |
| propan-2-ol | No data available | - | - | 319 |
| sodium cumenesulphonate | No data available | - | No data available | 3.8 |

DNEL inhalatory exposure - Worker (mg/m³)

| Ingredient(s) | Short term - Local effects | Short term - Systemic effects | Long term - Local effects | Long term - Systemic effects |
|---|---|---|---|---|
| phosphoric acid | - | - | 2.92 | 1 |
| alkylbenzenesulphonic acid | - | - | - | 6 |
| propan-2-ol | - | - | - | 500 |
| sodium cumenesulphonate | - | - | - | 53.6 |

DNEL inhalatory exposure - Consumer (mg/m³)

| Ingredient(s) | Short term - Local effects | Short term - Systemic effects | Long term - Local effects | Long term - Systemic effects |
|---|---|---|---|---|
| phosphoric acid | - | - | 0.73 | - |
| alkylbenzenesulphonic acid | - | - | - | 1.5 |
| propan-2-ol | - | - | - | 89 |
| sodium cumenesulphonate | - | - | - | 13.2 |

**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) |
|---|---|---|---|---|
| phosphoric acid | - | - | - | - |
| alkylbenzenesulphonic acid | 0.268 | 0.027 | 0.017 | 3.43 |
| propan-2-ol | 140.9 | 140.9 | 140.9 | 2251 |
| sodium cumenesulphonate | 0.23 | 0.023 | 2.3 | 100 |

Environmental exposure - PNEC, continued

| Ingredient(s) | Sediment, freshwater (mg/kg) | Sediment, marine (mg/kg) | Soil (mg/kg) | Air (mg/m³) |
|---|---|---|---|---|
| phosphoric acid | - | - | - | - |
| alkylbenzenesulphonic acid | 8.1 | 6.8 | 35 | - |
| propan-2-ol | 552 | 552 | 28 | - |
| sodium cumenesulphonate | 0.862 | 0.086 | 0.037 | - |

**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 |
|---|---|---|---|---|---|
| Automatic application in a dedicated closed system | AISE_SWED_IS_1_1 | IS | PROC 1 | 480 | ERC4 |
| Automatic transfer and dilution | AISE_SWED_IS_8b_1 | IS | PROC 8b | 60 | ERC4 |

**Personal protective equipment**

**Eye / face protection:** Safety glasses or goggles (EN 166). The use of a full-face shield or other full-face protection is strongly recommended when handling open containers or if splashes may occur.

**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. Wear chemical-resistant clothing and boots in case direct dermal exposure and/or splashes may occur (EN 14605).

**Respiratory protection:** No special requirements under normal use conditions.

**Environmental exposure controls:** Should not reach sewage water or drainage ditch undiluted or unneutralised.

*Recommended safety measures for handling the diluted product:*

**Recommended maximum concentration (% w/w):** 10

**Appropriate engineering controls:** Provide a good standard of general ventilation. Ensure that foam equipment does not generate respirable particles.

**Appropriate organisational controls:** No special requirements under normal use conditions. Users are advised to consider national Occupational Exposure Limits or other equivalent values, if available.

**REACH use scenarios considered for the diluted product:**

| | SWED | LCS | PROC | Duration (min) | ERC |
|---|---|---|---|---|---|
| Automatic application in a dedicated system | AISE_SWED_IS_4_1 | IS | PROC 4 | 480 | ERC8a |
| Foam spraying<br>Spray application | AISE_SWED_IS_7_4<br>AISE_SWED_IS_7_5 | IS | PROC 7 | 480 | ERC4 |

**Personal protective equipment**

**Eye / face protection:** Safety glasses or goggles (EN 166) are always recommended for foam applications.

**Hand protection:** Chemical-resistant protective gloves (EN 374) are always recommended for foam applications.
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
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:** Liquid | |
| **Colour:** Clear , Pale , Brown | |
| **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) |
|---|---|---|---|
| phosphoric acid | 158 | Method not given | 1013 |
| alkylbenzenesulphonic acid | 190 | Method not given | |
| propan-2-ol | 82 | Method not given | 1013 |
| sodium cumenesulphonate | > 100 | Method not given | |

| | Method / remark |
|---|---|
| **Flammability (solid, gas):** Not applicable to liquids | |
| **Flammability (liquid):** Not flammable. | |
| **Flash point (°C):** > 55 °C | closed cup |
| **Sustained combustion:** The product does not sustain combustion<br>*( UN Manual of Tests and Criteria, section 32, L.2 )* | Weight of evidence |

**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) |
|---|---|---|
| propan-2-ol | 2 | 13 |

| | Method / remark |
|---|---|
| **Autoignition temperature:** Not determined | |
| **Decomposition temperature:** Not applicable. | |
| **pH:** < 2 (neat) | ISO 4316 |
| **Dilution pH:** < 2 (10 %) | 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) |
|---|---|---|---|
| phosphoric acid | Soluble | | |
| alkylbenzenesulphonic acid | > 10 | Method not given | 20 |
| propan-2-ol | Soluble | Method not given | |
| sodium cumenesulphonate | Soluble | | |

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) |
|---|---|---|---|
| phosphoric acid | 4 | Method not given | 20 |
| alkylbenzenesulphonic acid | 0.15 | | 20 |
| propan-2-ol | 4200 | Method not given | 20 |
| sodium cumenesulphonate | No data available | | |

| | Method / remark |
|---|---|
| **Relative density:** ≈ 1.29 (20 °C) | OECD 109 (EU A.3) |
| **Relative vapour density:** No data available. | Not relevant to classification of this product |
| **Particle characteristics:** No data available. | 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:** Corrosive — Weight of evidence

**9.2.2 Other safety characteristics**

**Acid reserve:** ≈ -13.6 (g NaOH / 100g; pH=4)

## 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**

May be corrosive to metals. Reacts with alkali. Keep away from products containing chlorine-based bleaching agents or sulphites.

**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) |
|---|---|---|---|---|---|---|
| phosphoric acid | $LD_{50}$ | > 300-5000 | Rat | OECD 423 (EU B.1 tris) | | Not established |
| alkylbenzenesulphonic acid | $LD_{50}$ | 1470 | Rat | OECD 401 (EU B.1) | | 15000 |
| propan-2-ol | $LD_{50}$ | 5840 | Rat | OECD 401 (EU B.1) | | Not established |
| sodium cumenesulphonate | $LD_{50}$ | > 7000 | Rat | Method not given | | Not established |

Acute dermal toxicity

| Ingredient(s) | Endpoint | Value (mg/kg) | Species | Method | Exposure time (h) | ATE (mg/kg) |
|---|---|---|---|---|---|---|
| phosphoric acid | $LD_{50}$ | 2740 | Rabbit | Method not given | | Not established |
| alkylbenzenesulphonic acid | $LD_{50}$ | > 2000 | Rat | OECD 402 (EU B.3) | | Not established |
| propan-2-ol | $LD_{50}$ | > 2000 | Rabbit | Method not given | | Not established |
| sodium cumenesulphonate | $LD_{50}$ | > 2000 | Rabbit | Method not given | | Not established |

Acute inhalative toxicity

| Ingredient(s) | Endpoint | Value (mg/l) | Species | Method | Exposure time (h) |
|---|---|---|---|---|---|
| phosphoric acid | $LC_{50}$ | 850 | Rat | Method not given | 2 |
| alkylbenzenesulphonic acid | | No data available | | | |
| propan-2-ol | $LC_{50}$ | > 25 (vapour) | Rat | OECD 403 (EU B.2) | 6 |
| sodium cumenesulphonate | $LC_{50}$ | > 770 | Rat | Method not given | 4 |

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) |
|---|---|---|---|---|
| phosphoric acid | Not established | Not established | Not established | Not established |
| alkylbenzenesulphonic acid | Not established | Not established | Not established | Not established |
| propan-2-ol | Not established | Not established | Not established | Not established |
| sodium cumenesulphonate | Not established | Not established | Not established | Not established |

**Irritation and corrosivity**
Skin irritation and corrosivity

| Ingredient(s) | Result | Species | Method | Exposure time |
|---|---|---|---|---|
| phosphoric acid | Corrosive | Rabbit | OECD 404 (EU B.4) | |
| alkylbenzenesulphonic acid | Corrosive | Rabbit | OECD 404 (EU B.4) | |
| propan-2-ol | Not irritant | Rabbit | OECD 404 (EU B.4) | |
| sodium cumenesulphonate | Mild irritant | Rabbit | OECD 404 (EU B.4) | |

Eye irritation and corrosivity

| Ingredient(s) | Result | Species | Method | Exposure time |
|---|---|---|---|---|
| phosphoric acid | Severe damage | Rabbit | Method not given | |
| alkylbenzenesulphonic acid | Severe damage | Rabbit | OECD 405 (EU B.5) | |
| propan-2-ol | Irritant | Rabbit | OECD 405 (EU B.5) | |
| sodium cumenesulphonate | Irritant | Rabbit | OECD 405 (EU B.5) | |

Respiratory tract irritation and corrosivity

| Ingredient(s) | Result | Species | Method | Exposure time |
|---|---|---|---|---|
| phosphoric acid | No data available | | | |
| alkylbenzenesulphonic acid | No data available | | | |
| propan-2-ol | No data available | | | |
| sodium cumenesulphonate | No data available | | | |

### Sensitisation

Sensitisation by skin contact

| Ingredient(s) | Result | Species | Method | Exposure time (h) |
|---|---|---|---|---|
| phosphoric acid | Not sensitising | Human | Human experience | |
| alkylbenzenesulphonic acid | Not sensitising | Guinea pig | OECD 406 (EU B.6) / GPMT | |
| propan-2-ol | Not sensitising | Guinea pig | OECD 406 (EU B.6) / Buehler test | |
| sodium cumenesulphonate | Not sensitising | Guinea pig | OECD 406 (EU B.6) / GPMT | |

Sensitisation by inhalation

| Ingredient(s) | Result | Species | Method | Exposure time |
|---|---|---|---|---|
| phosphoric acid | No data available | | | |
| alkylbenzenesulphonic acid | No data available | | | |
| propan-2-ol | No data available | | | |
| sodium cumenesulphonate | 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) |
|---|---|---|---|---|
| phosphoric acid | No evidence for mutagenicity, negative test results | OECD 471 (EU B.12/13) OECD 473 OECD 476 (Mouse lymphoma) | No data available | |
| alkylbenzenesulphonic acid | No evidence for mutagenicity, negative test results | OECD 471 (EU B.12/13) OECD 473 | No evidence for mutagenicity, negative test results | OECD 474 (EU B.12) |
| propan-2-ol | No evidence for mutagenicity, negative test results No evidence of genotoxicity, negative test results | OECD 471 (EU B.12/13) | No evidence of genotoxicity, negative test results | OECD 474 (EU B.12) |
| sodium cumenesulphonate | No evidence for mutagenicity, negative test results | Method not given | No evidence for mutagenicity, negative test results | OECD 474 (EU B.12) |

Carcinogenicity

| Ingredient(s) | Effect |
|---|---|
| phosphoric acid | No data available |
| alkylbenzenesulphonic acid | No evidence for carcinogenicity, weight-of-evidence |
| propan-2-ol | No evidence for carcinogenicity, negative test results |
| sodium cumenesulphonate | No evidence for carcinogenicity, negative test results |

Toxicity for reproduction

| Ingredient(s) | Endpoint | Specific effect | Value (mg/kg bw/d) | Species | Method | Exposure time | Remarks and other effects reported |
|---|---|---|---|---|---|---|---|
| phosphoric acid | NOAEL | Developmental toxicity | 410 | Rat | OECD 422, oral | 10 day(s) | No evidence for reproductive toxicity No evidence for developmental toxicity |
| alkylbenzenesulphonic acid | NOAEL | Teratogenic effects | 300 | Rat | Read across | 20 day(s) | |
| propan-2-ol | | | No data available | | | | |
| sodium cumenesulphonate | NOAEL | Teratogenic effects | > 3000 | Rat | Non guideline test | | |

### 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 |
|---|---|---|---|---|---|---|
| phosphoric acid | NOAEL | 250 | Rat | OECD 422, oral | | |
| alkylbenzenesulphonic acid | | No data available | | | | |
| propan-2-ol | | No data available | | | | |
| sodium cumenesulphonate | NOAEL | 763 - 3534 | | OECD 408 (EU B.26) | 90 | |

Sub-chronic dermal toxicity

| Ingredient(s) | Endpoint | Value (mg/kg bw/d) | Species | Method | Exposure time (days) | Specific effects and organs affected |
|---|---|---|---|---|---|---|
| phosphoric acid | | No data | | | | |

| | | | | | | |
|---|---|---|---|---|---|---|
| | | available | | | | |
| alkylbenzenesulphonic acid | | No data available | | | | |
| propan-2-ol | | No data available | | | | |
| sodium cumenesulphonate | NOAEL | 440 | Mouse | Method not given | 90 | |

Sub-chronic inhalation toxicity

| Ingredient(s) | Endpoint | Value (mg/kg bw/d) | Species | Method | Exposure time (days) | Specific effects and organs affected |
|---|---|---|---|---|---|---|
| phosphoric acid | | No data available | | | | |
| alkylbenzenesulphonic acid | | No data available | | | | |
| propan-2-ol | | No data available | | | | |
| sodium cumenesulphonate | | 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 |
|---|---|---|---|---|---|---|---|---|
| phosphoric acid | | | No data available | | | | | |
| alkylbenzenesulphonic acid | Oral | NOAEL | 85 | Rat | Read across | 9 month(s) | | |
| propan-2-ol | | | No data available | | | | | |
| sodium cumenesulphonate | Dermal | NOAEL | 727 | Mouse | Method not given | 24 month(s) | | |

STOT-single exposure

| Ingredient(s) | Affected organ(s) |
|---|---|
| phosphoric acid | No data available |
| alkylbenzenesulphonic acid | No data available |
| propan-2-ol | Central nervous system |
| sodium cumenesulphonate | No data available |

STOT-repeated exposure

| Ingredient(s) | Affected organ(s) |
|---|---|
| phosphoric acid | No data available |
| alkylbenzenesulphonic acid | No data available |
| propan-2-ol | No data available |
| sodium cumenesulphonate | 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) |
|---|---|---|---|---|---|
| phosphoric acid | $LC_{50}$ | 138 | *Gambusia* | Method not given | 96 |

| | | | | | |
|---|---|---|---|---|---|
| | | | *affinis* | | |
| alkylbenzenesulphonic acid | $LC_{50}$ | 1 - 10 | *Cyprinus carpio* | OECD 203 (EU C.1) | 96 |
| propan-2-ol | $LC_{50}$ | > 100 | *Pimephales promelas* | Method not given | 48 |
| sodium cumenesulphonate | $LC_{50}$ | > 1000 | *Fish* | EPA-OPPTS 850.1075 | 96 |

Aquatic short-term toxicity - crustacea

| Ingredient(s) | Endpoint | Value (mg/l) | Species | Method | Exposure time (h) |
|---|---|---|---|---|---|
| phosphoric acid | $EC_{50}$ | > 100 | *Daphnia magna Straus* | OECD 202 (EU C.2) | 48 |
| alkylbenzenesulphonic acid | $EC_{50}$ | 1 - 10 | *Daphnia magna Straus* | OECD 202 (EU C.2) | 48 |
| propan-2-ol | $EC_{50}$ | > 100 | *Daphnia magna Straus* | Method not given | 48 |
| sodium cumenesulphonate | $EC_{50}$ | > 1000 | *Daphnia* | EPA-OPPTS 850.1010 | 48 |

Aquatic short-term toxicity - algae

| Ingredient(s) | Endpoint | Value (mg/l) | Species | Method | Exposure time (h) |
|---|---|---|---|---|---|
| phosphoric acid | $EC_{50}$ | > 100 | *Desmodesmus subspicatus* | OECD 201 (EU C.3) | 72 |
| alkylbenzenesulphonic acid | $EC_{50}$ | 10 - 100 | *Desmodesmus subspicatus* | OECD 201 (EU C.3) | 72 |
| propan-2-ol | $EC_{50}$ | > 100 | *Scenedesmus quadricauda* | Method not given | 72 |
| sodium cumenesulphonate | $E_rC_{50}$ | 310 | *Not specified* | | 72 |

Aquatic short-term toxicity - marine species

| Ingredient(s) | Endpoint | Value (mg/l) | Species | Method | Exposure time (days) |
|---|---|---|---|---|---|
| phosphoric acid | | No data available | | | |
| alkylbenzenesulphonic acid | | No data available | | | |
| propan-2-ol | | No data available | | | |
| sodium cumenesulphonate | | No data available | | | |

Impact on sewage plants - toxicity to bacteria

| Ingredient(s) | Endpoint | Value (mg/l) | Inoculum | Method | Exposure time |
|---|---|---|---|---|---|
| phosphoric acid | $EC_{50}$ | 270 | *Activated sludge* | Method not given | |
| alkylbenzenesulphonic acid | | No data available | | | |
| propan-2-ol | $EC_{50}$ | > 1000 | *Activated sludge* | Method not given | |
| sodium cumenesulphonate | $E_rC_{50}$ | > 1000 | *Bacteria* | OECD 209 | 3 hour(s) |

### Aquatic long-term toxicity

Aquatic long-term toxicity - fish

| Ingredient(s) | Endpoint | Value (mg/l) | Species | Method | Exposure time | Effects observed |
|---|---|---|---|---|---|---|
| phosphoric acid | | No data available | | | | |
| alkylbenzenesulphonic acid | NOEC | 0.1 - 1 | *Lepomis macrochirus* | Read across | 28 day(s) | |
| propan-2-ol | | No data available | | | | |
| sodium cumenesulphonate | | No data available | | | | |

Aquatic long-term toxicity - crustacea

| Ingredient(s) | Endpoint | Value (mg/l) | Species | Method | Exposure time | Effects observed |
|---|---|---|---|---|---|---|
| phosphoric acid | | No data available | | | | |
| alkylbenzenesulphonic acid | NOEC | 1 - 10 | *Not specified* | Read across | 32 day(s) | |
| propan-2-ol | | No data available | | | | |
| sodium cumenesulphonate | | 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 |
|---|---|---|---|---|---|---|
| phosphoric acid | | No data available | | | | |
| alkylbenzenesulphonic acid | | No data available | | | | |
| propan-2-ol | | No data available | | | | |
| sodium cumenesulphonate | | 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 |
|---|---|---|---|---|---|---|
| phosphoric acid | | No data available | | | | |
| alkylbenzenesulphonic acid | $LD_{50}$ | > 1000 | *Eisenia fetida* | OECD 207 | 14 | |
| propan-2-ol | | No data available | | | | |
| sodium cumenesulphonate | | No data available | | | | |

Terrestrial toxicity - plants, if available:

| Ingredient(s) | Endpoint | Value (mg/kg dw soil) | Species | Method | Exposure time (days) | Effects observed |
|---|---|---|---|---|---|---|
| phosphoric acid | | No data available | | | | |
| alkylbenzenesulphonic acid | $EC_{50}$ | 167 | | OECD 208 | 21 | |
| propan-2-ol | | No data available | | | | |
| sodium cumenesulphonate | | No data available | | | | |

Terrestrial toxicity - birds, if available:

| Ingredient(s) | Endpoint | Value | Species | Method | Exposure time (days) | Effects observed |
|---|---|---|---|---|---|---|
| phosphoric acid | | No data available | | | | |
| alkylbenzenesulphonic acid | | No data available | | | | |
| propan-2-ol | | No data available | | | | |
| 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 |
|---|---|---|---|---|---|---|
| phosphoric acid | | No data available | | | | |
| alkylbenzenesulphonic acid | | No data available | | | | |
| propan-2-ol | | No data available | | | | |
| sodium cumenesulphonate | | No data available | | | | |

Terrestrial toxicity - soil bacteria, if available:

| Ingredient(s) | Endpoint | Value (mg/kg dw soil) | Species | Method | Exposure time (days) | Effects observed |
|---|---|---|---|---|---|---|
| phosphoric acid | | No data available | | | | |
| alkylbenzenesulphonic acid | | No data available | | | | |
| propan-2-ol | | No data available | | | | |
| sodium cumenesulphonate | | 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 |
|---|---|---|---|---|
| phosphoric acid | No data available | | | |
| alkylbenzenesulphonic acid | No data available | | | |
| propan-2-ol | No data available | | | |
| sodium cumenesulphonate | No data available | | | |

Abiotic degradation - hydrolysis, if available:

| Ingredient(s) | Half-life time in fresh water | Method | Evaluation | Remark |
|---|---|---|---|---|
| phosphoric acid | No data available | | | |
| alkylbenzenesulphonic acid | No data available | | | |
| propan-2-ol | No data available | | | |
| sodium cumenesulphonate | No data available | | | |

Abiotic degradation - other processes, if available:

| Ingredient(s) | Type | Half-life time | Method | Evaluation | Remark |
|---|---|---|---|---|---|
| phosphoric acid | | No data available | | | |
| alkylbenzenesulphonic acid | | No data available | | | |
| propan-2-ol | | No data available | | | |
| sodium cumenesulphonate | | No data available | | | |

### Biodegradation

Ready biodegradability - aerobic conditions

| Ingredient(s) | Inoculum | Analytical method | $DT_{50}$ | Method | Evaluation |
|---|---|---|---|---|---|
| phosphoric acid | | | | | Not applicable (inorganic substance) |
| alkylbenzenesulphonic acid | | | 94 % in 28 day(s) | OECD 301A | Readily biodegradable |
| propan-2-ol | | | 95 % in 21 day(s) | OECD 301E | Readily biodegradable |
| sodium cumenesulphonate | Activated sludge, aerobe | $CO_2$ production | 100 % in 28 day(s) | OECD 301B | Readily biodegradable |

Ready biodegradability - anaerobic and marine conditions, if available:

| Ingredient(s) | Medium & Type | Analytical method | $DT_{50}$ | Method | Evaluation |
|---|---|---|---|---|---|
| phosphoric acid | | | | | No data available |
| alkylbenzenesulphonic acid | | | | | No data available |
| propan-2-ol | | | | | No data available |
| sodium cumenesulphonate | | | | | No data available |

Degradation in relevant environmental compartments, if available:

| Ingredient(s) | Medium & Type | Analytical method | $DT_{50}$ | Method | Evaluation |
|---|---|---|---|---|---|
| phosphoric acid | | | | | No data available |
| alkylbenzenesulphonic acid | | | | | No data available |
| propan-2-ol | | | | | No data available |
| sodium cumenesulphonate | | | | | No data available |

### 12.3 Bioaccumulative potential

Partition coefficient n-octanol/water (log Kow)

| Ingredient(s) | Value | Method | Evaluation | Remark |
|---|---|---|---|---|
| phosphoric acid | No data available | | No bioaccumulation expected | |
| alkylbenzenesulphonic acid | 3.2 | Method not given | Low potential for bioaccumulation | |
| propan-2-ol | 0.05 | OECD 107 | No bioaccumulation expected | |
| sodium cumenesulphonate | -1.1 | Method not given | Low potential for bioaccumulation | |

Bioconcentration factor (BCF)

| Ingredient(s) | Value | Species | Method | Evaluation | Remark |
|---|---|---|---|---|---|
| phosphoric acid | No data available | | | No bioaccumulation expected | |
| alkylbenzenesulphonic acid | 2 - 500 | | Method not given | Low potential for bioaccumulation | |
| propan-2-ol | No data available | | | | |
| sodium | No data available | | | | |

| | | | | | |
|---|---|---|---|---|---|
| cumenesulphonate | | | | | |

**12.4 Mobility in soil**
Adsorption/Desorption to soil or sediment

| Ingredient(s) | Adsorption coefficient Log Koc | Desorption coefficient Log Koc(des) | Method | Soil/sediment type | Evaluation |
|---|---|---|---|---|---|
| phosphoric acid | No data available | | | | Potential for mobility in soil, soluble in water |
| alkylbenzenesulphonic acid | No data available | | | | Low mobillity in soil |
| propan-2-ol | No data available | | | | Potential for mobility in soil, soluble in water |
| sodium cumenesulphonate | 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 14* - acids.

**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:** 1805
**14.2 UN proper shipping name:**
Phosphoric acid, solution
**14.3 Transport hazard class(es):**
**Transport hazard class (and subsidiary risks):** 8
**14.4 Packing group:** III
**14.5 Environmental hazards:**
**Environmentally hazardous:** No
**Marine pollutant:** No
**14.6 Special precautions for user:** None known.
**14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code:** The product is not transported in bulk tankers.

**Other relevant information:**
**ADR**
**Classification code:** C1
**Tunnel restriction code:** E
**Hazard identification number:** 80
**IMO/IMDG**
**EmS:** F-A, S-B

The product has been classified, labelled and packaged in accordance with the requirements of ADR and the provisions of the IMDG Code
Transport regulations include special provisions for certain classes of dangerous goods packed in limited quantities.

## 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**
anionic surfactants 5 - 15 %

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:** MSDS1576 **Version:** 07.1 **Revision:** 2021-11-19

**Reason for revision:**
Overall design adjusted in accordance with Amendment 2020/878, Annex II of Regulation (EC) No 1907/2006, This data sheet contains changes from the previous version in section(s):, 3, 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:**
• H225 - Highly flammable liquid and vapour.
• H290 - May be corrosive to metals.
• H302 - Harmful if swallowed.
• H314 - Causes severe skin burns and eye damage.
• H318 - Causes serious eye damage.
• H319 - Causes serious eye irritation.
• H336 - May cause drowsiness or dizziness.
• 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
• NOEL - No observed effect level
• OECD - Organization 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**