# Safety Data Sheet

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

## Surf Professional Tropical Lily & Ylang Ylang Liquid

**Revision:** 2020-08-09 **Version:** 08.0

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

**1.1 Product identifier**
**Trade name:** Surf Professional Tropical Lily & Ylang Ylang Liquid
*Surf is a registered trade mark and is used under licence of Unilever*

**1.2 Relevant identified uses of the substance or mixture and uses advised against**
**Identified uses:**
AISE-P102 - Laundry detergent. Semi-automatic process
AISE-P103 - Laundry detergent. Manual process
AISE-C1 - Laundry regular (powder, liquid) for consumer use
**Uses advised against:** Uses other than those identified are not recommended

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

**Contact details**
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**

Eye Irrit. 2 (H319)
Skin Sens. 1 (H317)

**2.2 Label elements**

**Signal word:** Warning.

Contains 2-methyl-2H-isothiazol-3-one (Methylisothiazolinone), 3(2H)-Isothiazolone, 2-octyl- (Octylisothiazolinone), isoeugenol (Isoeugenol)

**Hazard statements:**
H319 - Causes serious eye irritation.
H317 - May cause an allergic skin reaction.

**Precautionary statements:**
P101 - If medical advice is needed, have product container or label at hand.
P102 - Keep out of reach of children.
P280 - Wear protective gloves.
P501 - Dispose of unused content as chemical waste.

**Further indications on the label:**
Contains: preservative.

**2.3 Other hazards**
No other hazards known. The product does not meet the criteria for PBT or vPvB in accordance with Regulation (EC) No 1907/2006, Annex

XIII.

## SECTION 3: Composition/information on ingredients

**3.2 Mixtures**

| Ingredient(s) | EC number | CAS number | REACH number | Classification | Notes | Weight percent |
|---|---|---|---|---|---|---|
| sodium alkylbenzenesulphonate | 270-115-0 | 68411-30-3 | 01-2119489428-22 | Acute Tox. 4 (H302)<br>Skin Irrit. 2 (H315)<br>Eye Dam. 1 (H318)<br>Aquatic Chronic 3 (H412) | | 3-10 |
| Poly(oxy-1,2-ethanediyl), .alpha.-sulfo-.omega.-hydroxy-, C12-14-alkyl ethers, sodium salts | 500-234-8 | 68891-38-3 | - | Skin Irrit. 2 (H315)<br>Eye Dam. 1 (H318)<br>Aquatic Chronic 3 (H412) | | 3-10 |
| Alcohols, C12-15, ethoxylated | 500-195-7 | 68131-39-5 | - | Acute Tox. 4 (H302)<br>Eye Dam. 1 (H318)<br>Aquatic Chronic 3 (H412) | | 3-10 |
| Benzenesulfonic acid, C10-13-alkyl derivatives, compounds with triethanolamine | 270-116-6 | 68411-31-4 | - | Acute Tox. 4 (H302)<br>Skin Irrit. 2 (H315)<br>Eye Dam. 1 (H318)<br>Aquatic Chronic 3 (H412) | | 1-3 |
| 2-methyl-2H-isothiazol-3-one | 220-239-6 | 2682-20-4 | [6] | Acute Tox. 2 (H330)<br>Acute Tox. 3 (H301)<br>Acute Tox. 3 (H311)<br>Skin Corr. 1B (H314)<br>Eye Dam. 1 (H318)<br>Skin Sens. 1A (H317)<br>Aquatic Acute 1 (H400)<br>Aquatic Chronic 1 (H410) | | < 0.01 |

Workplace exposure limit(s), if available, are listed in subsection 8.1.
[6] Exempted: biocidal active. See Article 15a 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**

**General Information:** Symptoms of intoxication may even occur after several hours. It is recommended to continue medical observation for at least 48 hours after the incident.

**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. 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:** May cause an allergic skin reaction.

**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 suitable gloves.

**6.2 Environmental precautions**
Do not allow to enter drainage system, surface or ground water. Dilute with plenty of 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:**
Follow general hygiene considerations recognised as common good workplace practices. Keep away from food, drink and animal feeding stuffs. Keep out of reach of children. Do not mix with other products unless adviced by Diversey. Wash face, hands and any exposed skin thoroughly after handling. Take off contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Use only with adequate ventilation. See chapter 8.2, Exposure controls / Personal protection.

**7.2 Conditions for safe storage, including any incompatibilities**
Store in accordance with local and national regulations. Store in a closed container. Keep only in original packaging. Keep out of reach of children.
For conditions to avoid see subsection 10.4. For incompatible materials see subsection 10.5.

**7.3 Specific end use(s)**
No specific advice for end use available.

## SECTION 8: Exposure controls/personal protection

**8.1 Control parameters**
**Workplace exposure limits**

Air limit values, if available:

Biological limit values, if available:

**Recommended monitoring procedures, if available:**

Additional exposure limits under the conditions of use, if available:

**DNEL/DMEL and PNEC values**
**Human exposure**
DNEL oral exposure - Consumer (mg/kg bw)

| Ingredient(s) | Short term - Local effects | Short term - Systemic effects | Long term - Local effects | Long term - Systemic effects |
|---|---|---|---|---|
| sodium alkylbenzenesulphonate | - | - | - | 0.425 |
| Poly(oxy-1,2-ethanediyl), .alpha.-sulfo-.omega.-hydroxy-, C12-14-alkyl ethers, sodium salts | No data available | No data available | No data available | No data available |
| Alcohols, C12-15, ethoxylated | No data available | No data available | No data available | No data available |
| Benzenesulfonic acid, C10-13-alkyl derivatives, compounds with triethanolamine | No data available | No data available | No data available | No data available |
| 2-methyl-2H-isothiazol-3-one | - | - | - | - |

DNEL dermal exposure - Worker

| Ingredient(s) | Short term - Local effects | Short term - Systemic effects (mg/kg bw) | Long term - Local effects | Long term - Systemic effects (mg/kg bw) |
|---|---|---|---|---|
| sodium alkylbenzenesulphonate | - | - | - | 119 |
| Poly(oxy-1,2-ethanediyl), .alpha.-sulfo-.omega.-hydroxy-, C12-14-alkyl ethers, sodium salts | No data available | No data available | No data available | No data available |
| Alcohols, C12-15, ethoxylated | No data available | No data available | No data available | No data available |

| | | | | |
|---|---|---|---|---|
| Benzenesulfonic acid, C10-13-alkyl derivatives, compounds with triethanolamine | No data available | No data available | No data available | No data available |
| 2-methyl-2H-isothiazol-3-one | - | - | - | - |

DNEL dermal exposure - Consumer

| Ingredient(s) | Short term - Local effects | Short term - Systemic effects (mg/kg bw) | Long term - Local effects | Long term - Systemic effects (mg/kg bw) |
|---|---|---|---|---|
| sodium alkylbenzenesulphonate | - | - | - | 42.5 |
| Poly(oxy-1,2-ethanediyl), .alpha.-sulfo-.omega.-hydroxy-, C12-14-alkyl ethers, sodium salts | No data available | No data available | No data available | No data available |
| Alcohols, C12-15, ethoxylated | No data available | No data available | No data available | No data available |
| Benzenesulfonic acid, C10-13-alkyl derivatives, compounds with triethanolamine | No data available | No data available | No data available | No data available |
| 2-methyl-2H-isothiazol-3-one | - | - | - | - |

DNEL inhalatory exposure - Worker (mg/m³)

| Ingredient(s) | Short term - Local effects | Short term - Systemic effects | Long term - Local effects | Long term - Systemic effects |
|---|---|---|---|---|
| sodium alkylbenzenesulphonate | - | - | - | 6 |
| Poly(oxy-1,2-ethanediyl), .alpha.-sulfo-.omega.-hydroxy-, C12-14-alkyl ethers, sodium salts | No data available | No data available | No data available | No data available |
| Alcohols, C12-15, ethoxylated | No data available | No data available | No data available | No data available |
| Benzenesulfonic acid, C10-13-alkyl derivatives, compounds with triethanolamine | No data available | No data available | No data available | No data available |
| 2-methyl-2H-isothiazol-3-one | - | - | - | - |

DNEL inhalatory exposure - Consumer (mg/m³)

| Ingredient(s) | Short term - Local effects | Short term - Systemic effects | Long term - Local effects | Long term - Systemic effects |
|---|---|---|---|---|
| sodium alkylbenzenesulphonate | - | - | - | 1.5 |
| Poly(oxy-1,2-ethanediyl), .alpha.-sulfo-.omega.-hydroxy-, C12-14-alkyl ethers, sodium salts | No data available | No data available | No data available | No data available |
| Alcohols, C12-15, ethoxylated | No data available | No data available | No data available | No data available |
| Benzenesulfonic acid, C10-13-alkyl derivatives, compounds with triethanolamine | No data available | No data available | No data available | No data available |
| 2-methyl-2H-isothiazol-3-one | - | - | - | - |

**Environmental exposure**

Environmental exposure - PNEC

| Ingredient(s) | Surface water, fresh (mg/l) | Surface water, marine (mg/l) | Intermittent (mg/l) | Sewage treatment plant (mg/l) |
|---|---|---|---|---|
| sodium alkylbenzenesulphonate | 0.268 | 0.0268 | 0.0167 | 3.43 |
| Poly(oxy-1,2-ethanediyl), .alpha.-sulfo-.omega.-hydroxy-, C12-14-alkyl ethers, sodium salts | No data available | No data available | No data available | No data available |
| Alcohols, C12-15, ethoxylated | No data available | No data available | No data available | No data available |
| Benzenesulfonic acid, C10-13-alkyl derivatives, compounds with triethanolamine | No data available | No data available | No data available | No data available |
| 2-methyl-2H-isothiazol-3-one | - | - | - | - |

Environmental exposure - PNEC, continued

| Ingredient(s) | Sediment, freshwater (mg/kg) | Sediment, marine (mg/kg) | Soil (mg/kg) | Air (mg/m³) |
|---|---|---|---|---|
| sodium alkylbenzenesulphonate | 8.1 | 6.8 | 35 | - |
| Poly(oxy-1,2-ethanediyl), .alpha.-sulfo-.omega.-hydroxy-, C12-14-alkyl ethers, sodium salts | No data available | No data available | No data available | No data available |
| Alcohols, C12-15, ethoxylated | No data available | No data available | No data available | No data available |
| Benzenesulfonic acid, C10-13-alkyl derivatives, compounds with triethanolamine | No data available | No data available | No data available | No data available |
| 2-methyl-2H-isothiazol-3-one | - | - | - | - |

### 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:*
*Covering activities such as filling and transfer of product to application equipment, flasks or buckets*

**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.

**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 166).

**Hand protection:** Chemical-resistant protective gloves (EN 374). Verify instructions regarding permeability and breakthrough time, as provided by the gloves supplier. Consider specific local use conditions, such as risk of splashes, cuts, contact time and temperature.
Suggested gloves for prolonged contact: Material: butyl rubber Penetration time: ≥ 480 min Material thickness: ≥ 0.7 mm
Suggested gloves for protection against splashes: Material: nitrile rubber Penetration time: ≥ 30 min Material thickness: ≥ 0.4 mm
In consultation with the supplier of protective gloves a different type providing similar protection may be chosen.

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

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

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

*Recommended safety measures for handling the diluted product:*

**Recommended maximum concentration (%):** 0.7

**Appropriate engineering controls:** No special requirements under normal use conditions.

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

**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:** 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:** Hazy, Pink | |
| **Odour:** Product specific | |
| **Odour threshold:** Not applicable | |
| **pH** ≈ 8 (neat) | ISO 4316 |
| **Dilution pH:** > 11 | |
| **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) |
|---|---|---|---|
| sodium alkylbenzenesulphonate | No data available | | |
| Poly(oxy-1,2-ethanediyl), .alpha.-sulfo-.omega.-hydroxy-, C12-14-alkyl ethers, sodium salts | No data available | | |
| Alcohols, C12-15, ethoxylated | No data available | | |
| Benzenesulfonic acid, C10-13-alkyl derivatives, compounds with triethanolamine | No data available | | |
| 2-methyl-2H-isothiazol-3-one | No data available | | |

| | Method / remark |
|---|---|
| **Flammability (liquid):** Not flammable. | |
| **Flash point (°C):** Not applicable. | |
| **Sustained combustion:** Not applicable. | |
| *( UN Manual of Tests and Criteria, section 32, L.2 )* | |
| **Evaporation rate:** Not determined | Not relevant to classification of this product |
| **Flammability (solid, gas):** Not applicable to liquids | |
| **Upper/lower flammability limit (%):** Not determined | |

Substance data, flammability or explosive limits, if available:

| | Method / remark |
|---|---|
| **Vapour pressure:** Not determined | See substance data |

Substance data, vapour pressure

| Ingredient(s) | Value (Pa) | Method | Temperature (°C) |
|---|---|---|---|
| sodium alkylbenzenesulphonate | No data available | | |
| Poly(oxy-1,2-ethanediyl), .alpha.-sulfo-.omega.-hydroxy-, C12-14-alkyl ethers, sodium salts | No data available | | |
| Alcohols, C12-15, ethoxylated | No data available | | |
| Benzenesulfonic acid, C10-13-alkyl derivatives, compounds with triethanolamine | No data available | | |
| 2-methyl-2H-isothiazol-3-one | No data available | | |

**Method / remark**

**Vapour density:** Not determined — Not relevant to classification of this product
**Relative density:** ≈ 1.02 (20 °C) — OECD 109 (EU A.3)
**Solubility in / Miscibility with Water:** Fully miscible

Substance data, solubility in water

| Ingredient(s) | Value (g/l) | Method | Temperature (°C) |
|---|---|---|---|
| sodium alkylbenzenesulphonate | > 250 | | |
| Poly(oxy-1,2-ethanediyl), .alpha.-sulfo-.omega.-hydroxy-, C12-14-alkyl ethers, sodium salts | No data available | | |
| Alcohols, C12-15, ethoxylated | No data available | | |
| Benzenesulfonic acid, C10-13-alkyl derivatives, compounds with triethanolamine | No data available | | |
| 2-methyl-2H-isothiazol-3-one | No data available | | |

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

**Method / remark**

**Autoignition temperature:** Not determined
**Decomposition temperature:** Not applicable.
**Viscosity:** ≈ 450 mPa.s (20 °C) — DM-006 Viscosity - Standard
**Explosive properties:** Not explosive.
**Oxidising properties:** Not oxidising.

**9.2 Other information**

**Surface tension (N/m):** Not determined — Not relevant to classification of this product
**Corrosion to metals:** Not corrosive — Weight of evidence

Substance data, dissociation constant, if available:

## SECTION 10: Stability and reactivity

**10.1 Reactivity**
No reactivity hazards known under normal storage and use conditions.

**10.2 Chemical stability**
Stable under normal storage and use conditions.

**10.3 Possibility of hazardous reactions**
No hazardous reactions known under normal storage and use conditions.

**10.4 Conditions to avoid**
None known under normal storage and use conditions.

**10.5 Incompatible materials**
None known under normal use conditions.

**10.6 Hazardous decomposition products**
None known under normal storage and use conditions.

## SECTION 11: Toxicological information

**11.1 Information on toxicological effects**

Mixture data:.

**Relevant calculated ATE(s):**
ATE - Oral (mg/kg): >2000

**Eye irritation and corrosivity**

**Result:** Eye irritant 2 **Method:** Weight of evidence

Substance data, where relevant and available, are listed below:.

### Acute toxicity

Acute oral toxicity

| Ingredient(s) | Endpoint | Value (mg/kg) | Species | Method | Exposure time (h) |
|---|---|---|---|---|---|
| sodium alkylbenzenesulphonate | $LD_{50}$ | 1080 | Rat | OECD 401 (EU B.1) | |
| Poly(oxy-1,2-ethanediyl), .alpha.-sulfo-.omega.-hydroxy-, C12-14-alkyl ethers, sodium salts | | No data available | | | |
| Alcohols, C12-15, ethoxylated | | No data available | | | |
| Benzenesulfonic acid, C10-13-alkyl derivatives, compounds with triethanolamine | | No data available | | | |
| 2-methyl-2H-isothiazol-3-one | $LD_{50}$ | 120 | Rat | OECD 401 (EU B.1) | |

Acute dermal toxicity

| Ingredient(s) | Endpoint | Value (mg/kg) | Species | Method | Exposure time (h) |
|---|---|---|---|---|---|
| sodium alkylbenzenesulphonate | $LD_{50}$ | > 2000 | Rat | OECD 402 (EU B.3) | |
| Poly(oxy-1,2-ethanediyl), .alpha.-sulfo-.omega.-hydroxy-, C12-14-alkyl ethers, sodium salts | | No data available | | | |
| Alcohols, C12-15, ethoxylated | | No data available | | | |
| Benzenesulfonic acid, C10-13-alkyl derivatives, compounds with triethanolamine | | No data available | | | |
| 2-methyl-2H-isothiazol-3-one | $LD_{50}$ | 242 | Rat | OECD 402 (EU B.3) | 24 hours |

Acute inhalative toxicity

| Ingredient(s) | Endpoint | Value (mg/l) | Species | Method | Exposure time (h) |
|---|---|---|---|---|---|
| sodium alkylbenzenesulphonate | | No data available | | | |
| Poly(oxy-1,2-ethanediyl), .alpha.-sulfo-.omega.-hydroxy-, C12-14-alkyl ethers, sodium salts | | No data available | | | |
| Alcohols, C12-15, ethoxylated | | No data available | | | |
| Benzenesulfonic acid, C10-13-alkyl derivatives, compounds with triethanolamine | | No data available | | | |
| 2-methyl-2H-isothiazol-3-one | $LC_{50}$ | (mist) 0.11 | Rat | OECD 403 (EU B.2) | 4 hours |

### Irritation and corrosivity

Skin irritation and corrosivity

| Ingredient(s) | Result | Species | Method | Exposure time |
|---|---|---|---|---|
| sodium alkylbenzenesulphonate | Irritant | Rabbit | OECD 404 (EU B.4) | |
| Poly(oxy-1,2-ethanediyl), .alpha.-sulfo-.omega.-hydroxy-, C12-14-alkyl ethers, sodium salts | No data available | | | |
| Alcohols, C12-15, ethoxylated | No data available | | | |
| Benzenesulfonic acid, C10-13-alkyl derivatives, compounds with triethanolamine | No data available | | | |
| 2-methyl-2H-isothiazol-3-one | Corrosive | | | |

Eye irritation and corrosivity

| Ingredient(s) | Result | Species | Method | Exposure time |
|---|---|---|---|---|
| sodium alkylbenzenesulphonate | Corrosive | Rabbit | OECD 405 (EU B.5) | |
| Poly(oxy-1,2-ethanediyl), .alpha.-sulfo-.omega.-hydroxy-, C12-14-alkyl ethers, sodium salts | No data available | | | |
| Alcohols, C12-15, ethoxylated | No data available | | | |
| Benzenesulfonic acid, C10-13-alkyl derivatives, compounds with triethanolamine | No data available | | | |
| 2-methyl-2H-isothiazol-3-one | No data available | | | |

Respiratory tract irritation and corrosivity

| Ingredient(s) | Result | Species | Method | Exposure time |
|---|---|---|---|---|
| sodium alkylbenzenesulphonate | Not irritating to respiratory tract | | | |
| Poly(oxy-1,2-ethanediyl), .alpha.-sulfo-.omega.-hydroxy-, C12-14-alkyl ethers, sodium salts | No data available | | | |
| Alcohols, C12-15, ethoxylated | No data available | | | |
| Benzenesulfonic acid, C10-13-alkyl derivatives, compounds with triethanolamine | No data available | | | |
| 2-methyl-2H-isothiazol-3-one | No data available | | | |

### Sensitisation

Sensitisation by skin contact

| Ingredient(s) | Result | Species | Method | Exposure time (h) |
|---|---|---|---|---|
| sodium alkylbenzenesulphonate | Not sensitising | Guinea pig | OECD 406 (EU B.6) / GPMT | |
| Poly(oxy-1,2-ethanediyl), .alpha.-sulfo-.omega.-hydroxy-, C12-14-alkyl ethers, sodium salts | No data available | | | |
| Alcohols, C12-15, ethoxylated | No data available | | | |
| Benzenesulfonic acid, C10-13-alkyl derivatives, compounds with triethanolamine | No data available | | | |
| 2-methyl-2H-isothiazol-3-one | Sensitising | Guinea pig | | |

Sensitisation by inhalation

| Ingredient(s) | Result | Species | Method | Exposure time |
|---|---|---|---|---|
| sodium alkylbenzenesulphonate | No data available | | | |
| Poly(oxy-1,2-ethanediyl), .alpha.-sulfo-.omega.-hydroxy-, C12-14-alkyl ethers, sodium salts | No data available | | | |
| Alcohols, C12-15, ethoxylated | No data available | | | |
| Benzenesulfonic acid, C10-13-alkyl derivatives, compounds with triethanolamine | No data available | | | |
| 2-methyl-2H-isothiazol-3-one | No data available | | | |

### CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Mutagenicity

| Ingredient(s) | Result (in-vitro) | Method (in-vitro) | Result (in-vivo) | Method (in-vivo) |
|---|---|---|---|---|
| sodium alkylbenzenesulphonate | No evidence for mutagenicity, negative test results | OECD 471 (EU B.12/13) OECD 476 OECD 473 | No data available | |
| Poly(oxy-1,2-ethanediyl), .alpha.-sulfo-.omega.-hydroxy-, C12-14-alkyl ethers, sodium salts | No data available | | No data available | |
| Alcohols, C12-15, ethoxylated | No data available | | No data available | |
| Benzenesulfonic acid, C10-13-alkyl derivatives, compounds with triethanolamine | No data available | | No data available | |
| 2-methyl-2H-isothiazol-3-one | No evidence for mutagenicity, negative test results | OECD 471 (EU B.12/13) | No data available | |

Carcinogenicity

| Ingredient(s) | Effect |
|---|---|
| sodium alkylbenzenesulphonate | No data available |
| Poly(oxy-1,2-ethanediyl), .alpha.-sulfo-.omega.-hydroxy-, C12-14-alkyl ethers, sodium salts | No data available |
| Alcohols, C12-15, ethoxylated | No data available |
| Benzenesulfonic acid, C10-13-alkyl derivatives, compounds with triethanolamine | No data available |
| 2-methyl-2H-isothiazol-3-one | No data available |

Toxicity for reproduction

| Ingredient(s) | Endpoint | Specific effect | Value (mg/kg bw/d) | Species | Method | Exposure time | Remarks and other effects reported |
|---|---|---|---|---|---|---|---|
| sodium alkylbenzenesulphonate | NOAEL | Teratogenic effects | 300 | Rat | Non guideline test | | No known significant effects or critical hazards |
| Poly(oxy-1,2-ethanediyl), .alpha.-sulfo-.omega.-hydroxy-, C12-14-alkyl ethers, sodium salts | | | No data available | | | | |
| Alcohols, C12-15, ethoxylated | | | No data available | | | | |
| Benzenesulfonic acid, C10-13-alkyl derivatives, compounds with triethanolamine | | | No data available | | | | |
| 2-methyl-2H-isothiazol-3-one | | | No data available | | | | |

### Repeated dose toxicity

Sub-acute or sub-chronic oral toxicity

| Ingredient(s) | Endpoint | Value (mg/kg bw/d) | Species | Method | Exposure time (days) | Specific effects and organs affected |
|---|---|---|---|---|---|---|
| sodium alkylbenzenesulphonate | | No data available | | | | |
| Poly(oxy-1,2-ethanediyl), | | No data | | | | |

| | | | | | | |
|---|---|---|---|---|---|---|
| .alpha.-sulfo-.omega.-hydroxy-, C12-14-alkyl ethers, sodium salts | | available | | | | |
| Alcohols, C12-15, ethoxylated | | No data available | | | | |
| Benzenesulfonic acid, C10-13-alkyl derivatives, compounds with triethanolamine | | No data available | | | | |
| 2-methyl-2H-isothiazol-3-one | | No data available | | | | |

Sub-chronic dermal toxicity

| Ingredient(s) | Endpoint | Value (mg/kg bw/d) | Species | Method | Exposure time (days) | Specific effects and organs affected |
|---|---|---|---|---|---|---|
| sodium alkylbenzenesulphonate | | No data available | | | | |
| Poly(oxy-1,2-ethanediyl), .alpha.-sulfo-.omega.-hydroxy-, C12-14-alkyl ethers, sodium salts | | No data available | | | | |
| Alcohols, C12-15, ethoxylated | | No data available | | | | |
| Benzenesulfonic acid, C10-13-alkyl derivatives, compounds with triethanolamine | | No data available | | | | |
| 2-methyl-2H-isothiazol-3-one | | No data available | | | | |

Sub-chronic inhalation toxicity

| Ingredient(s) | Endpoint | Value (mg/kg bw/d) | Species | Method | Exposure time (days) | Specific effects and organs affected |
|---|---|---|---|---|---|---|
| sodium alkylbenzenesulphonate | | No data available | | | | |
| Poly(oxy-1,2-ethanediyl), .alpha.-sulfo-.omega.-hydroxy-, C12-14-alkyl ethers, sodium salts | | No data available | | | | |
| Alcohols, C12-15, ethoxylated | | No data available | | | | |
| Benzenesulfonic acid, C10-13-alkyl derivatives, compounds with triethanolamine | | No data available | | | | |
| 2-methyl-2H-isothiazol-3-one | | No data available | | | | |

Chronic toxicity

| Ingredient(s) | Exposure route | Endpoint | Value (mg/kg bw/d) | Species | Method | Exposure time | Specific effects and organs affected | Remark |
|---|---|---|---|---|---|---|---|---|
| sodium alkylbenzenesulphonate | | | No data available | | | | | |
| Poly(oxy-1,2-ethanediyl), .alpha.-sulfo-.omega.-hydroxy-, C12-14-alkyl ethers, sodium salts | | | No data available | | | | | |
| Alcohols, C12-15, ethoxylated | | | No data available | | | | | |
| Benzenesulfonic acid, C10-13-alkyl derivatives, compounds with triethanolamine | | | No data available | | | | | |
| 2-methyl-2H-isothiazol-3-one | | | No data available | | | | | |

STOT-single exposure

| Ingredient(s) | Affected organ(s) |
|---|---|
| sodium alkylbenzenesulphonate | No data available |
| Poly(oxy-1,2-ethanediyl), .alpha.-sulfo-.omega.-hydroxy-, C12-14-alkyl ethers, sodium salts | No data available |
| Alcohols, C12-15, ethoxylated | No data available |
| Benzenesulfonic acid, C10-13-alkyl derivatives, compounds with triethanolamine | No data available |
| 2-methyl-2H-isothiazol-3-one | No data available |

STOT-repeated exposure

| Ingredient(s) | Affected organ(s) |
|---|---|
| sodium alkylbenzenesulphonate | No data available |
| Poly(oxy-1,2-ethanediyl), .alpha.-sulfo-.omega.-hydroxy-, C12-14-alkyl ethers, sodium salts | No data available |
| Alcohols, C12-15, ethoxylated | No data available |
| Benzenesulfonic acid, C10-13-alkyl derivatives, compounds with triethanolamine | No data available |
| 2-methyl-2H-isothiazol-3-one | 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.

## SECTION 12: Ecological information

### 12.1 Toxicity

No data is available on the mixture.

Substance data, where relevant and available, are listed below:

**Aquatic short-term toxicity**
Aquatic short-term toxicity - fish

| Ingredient(s) | Endpoint | Value (mg/l) | Species | Method | Exposure time (h) |
|---|---|---|---|---|---|
| sodium alkylbenzenesulphonate | $LC_{50}$ | 1.67 | *Fish* | EPA-OPPTS 850.1075 | 96 |
| Poly(oxy-1,2-ethanediyl), .alpha.-sulfo-.omega.-hydroxy-, C12-14-alkyl ethers, sodium salts | | No data available | | | |
| Alcohols, C12-15, ethoxylated | | No data available | | | |
| Benzenesulfonic acid, C10-13-alkyl derivatives, compounds with triethanolamine | | No data available | | | |
| 2-methyl-2H-isothiazol-3-one | | No data available | | | |

Aquatic short-term toxicity - crustacea

| Ingredient(s) | Endpoint | Value (mg/l) | Species | Method | Exposure time (h) |
|---|---|---|---|---|---|
| sodium alkylbenzenesulphonate | $LC_{50}$ | 2.9 | *Daphnia* | OECD 202 (EU C.2) | 48 |
| Poly(oxy-1,2-ethanediyl), .alpha.-sulfo-.omega.-hydroxy-, C12-14-alkyl ethers, sodium salts | | No data available | | | |
| Alcohols, C12-15, ethoxylated | | No data available | | | |
| Benzenesulfonic acid, C10-13-alkyl derivatives, compounds with triethanolamine | | No data available | | | |
| 2-methyl-2H-isothiazol-3-one | | No data available | | | |

Aquatic short-term toxicity - algae

| Ingredient(s) | Endpoint | Value (mg/l) | Species | Method | Exposure time (h) |
|---|---|---|---|---|---|
| sodium alkylbenzenesulphonate | $E_b C_{50}$ | 47.3 | *Not specified* | Non guideline test | 72 |
| Poly(oxy-1,2-ethanediyl), .alpha.-sulfo-.omega.-hydroxy-, C12-14-alkyl ethers, sodium salts | | No data available | | | |
| Alcohols, C12-15, ethoxylated | | No data available | | | |
| Benzenesulfonic acid, C10-13-alkyl derivatives, compounds with triethanolamine | | No data available | | | |
| 2-methyl-2H-isothiazol-3-one | | No data available | | | |

Aquatic short-term toxicity - marine species

| Ingredient(s) | Endpoint | Value (mg/l) | Species | Method | Exposure time (days) |
|---|---|---|---|---|---|
| sodium alkylbenzenesulphonate | | No data available | | | |
| Poly(oxy-1,2-ethanediyl), .alpha.-sulfo-.omega.-hydroxy-, C12-14-alkyl ethers, sodium salts | | No data available | | | |
| Alcohols, C12-15, ethoxylated | | No data available | | | |
| Benzenesulfonic acid, C10-13-alkyl derivatives, compounds with triethanolamine | | No data available | | | |
| 2-methyl-2H-isothiazol-3-one | | No data available | | | |

Impact on sewage plants - toxicity to bacteria

| Ingredient(s) | Endpoint | Value (mg/l) | Inoculum | Method | Exposure time |
|---|---|---|---|---|---|
| sodium alkylbenzenesulphonate | $EC_{50}$ | 550 | *Bacteria* | OECD 209 | 3 hour(s) |
| Poly(oxy-1,2-ethanediyl), .alpha.-sulfo-.omega.-hydroxy-, C12-14-alkyl ethers, sodium salts | | No data available | | | |
| Alcohols, C12-15, ethoxylated | | No data | | | |

| | | | | | |
|---|---|---|---|---|---|
| | | available | | | |
| Benzenesulfonic acid, C10-13-alkyl derivatives, compounds with triethanolamine | | No data available | | | |
| 2-methyl-2H-isothiazol-3-one | $EC_{20}$ | 2.8 | *Activated sludge* | 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 |
|---|---|---|---|---|---|---|
| sodium alkylbenzenesulphonate | NOEC | 0.23 | *Oncorhynchus mykiss* | Method not given | 72 day(s) | |
| Poly(oxy-1,2-ethanediyl), .alpha.-sulfo-.omega.-hydroxy-, C12-14-alkyl ethers, sodium salts | | No data available | | | | |
| Alcohols, C12-15, ethoxylated | | No data available | | | | |
| Benzenesulfonic acid, C10-13-alkyl derivatives, compounds with triethanolamine | | No data available | | | | |
| 2-methyl-2H-isothiazol-3-one | | No data available | | | | |

Aquatic long-term toxicity - crustacea

| Ingredient(s) | Endpoint | Value (mg/l) | Species | Method | Exposure time | Effects observed |
|---|---|---|---|---|---|---|
| sodium alkylbenzenesulphonate | NOEC | 1.41 | *Daphnia magna* | OECD 211 | | |
| Poly(oxy-1,2-ethanediyl), .alpha.-sulfo-.omega.-hydroxy-, C12-14-alkyl ethers, sodium salts | | No data available | | | | |
| Alcohols, C12-15, ethoxylated | | No data available | | | | |
| Benzenesulfonic acid, C10-13-alkyl derivatives, compounds with triethanolamine | | No data available | | | | |
| 2-methyl-2H-isothiazol-3-one | | No data available | | | | |

Aquatic toxicity to other aquatic benthic organisms, including sediment-dwelling organisms, if available:

| Ingredient(s) | Endpoint | Value (mg/kg dw sediment) | Species | Method | Exposure time (days) | Effects observed |
|---|---|---|---|---|---|---|
| sodium alkylbenzenesulphonate | | No data available | | | | |
| Poly(oxy-1,2-ethanediyl), .alpha.-sulfo-.omega.-hydroxy-, C12-14-alkyl ethers, sodium salts | | No data available | | | | |
| Alcohols, C12-15, ethoxylated | | No data available | | | | |
| Benzenesulfonic acid, C10-13-alkyl derivatives, compounds with triethanolamine | | No data available | | | | |
| 2-methyl-2H-isothiazol-3-one | | No data available | | | | |

### Terrestrial toxicity

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

Terrestrial toxicity - plants, if available:

Terrestrial toxicity - birds, if available:

Terrestrial toxicity - beneficial insects, if available:

Terrestrial toxicity - soil bacteria, if available:

### 12.2 Persistence and degradability

### Abiotic degradation

Abiotic degradation - photodegradation in air, if available:

Abiotic degradation - hydrolysis, if available:

Abiotic degradation - other processes, if available:

**Biodegradation**

Ready biodegradability - aerobic conditions

| Ingredient(s) | Inoculum | Analytical method | $DT_{50}$ | Method | Evaluation |
|---|---|---|---|---|---|
| sodium alkylbenzenesulphonate | Activated sludge, aerobe | $CO_2$ production | 85 % in 28 day(s) | OECD 301B | Readily biodegradable |
| Poly(oxy-1,2-ethanediyl), .alpha.-sulfo-.omega.-hydroxy-, C12-14-alkyl ethers, sodium salts | | | | OECD 301D | Readily biodegradable |
| Alcohols, C12-15, ethoxylated | | | | | No data available |
| Benzenesulfonic acid, C10-13-alkyl derivatives, compounds with triethanolamine | | | | | Readily biodegradable |
| 2-methyl-2H-isothiazol-3-one | | | | | Not readily biodegradable. |

Ready biodegradability - anaerobic and marine conditions, if available:

Degradation in relevant environmental compartments, if available:

| Ingredient(s) | Medium & Type | Analytical method | $DT_{50}$ | Method | Evaluation |
|---|---|---|---|---|---|
| 2-methyl-2H-isothiazol-3-one | Surface water (fresh) | Mineralisation rate | > 50 % in 4 day(s) | OECD 309 | Biodegradable |

**12.3 Bioaccumulative potential**

Partition coefficient n-octanol/water (log Kow)

| Ingredient(s) | Value | Method | Evaluation | Remark |
|---|---|---|---|---|
| sodium alkylbenzenesulphonate | 3.32 | Method not given | Low potential for bioaccumulation | |
| Poly(oxy-1,2-ethanediyl), .alpha.-sulfo-.omega.-hydroxy-, C12-14-alkyl ethers, sodium salts | No data available | | | |
| Alcohols, C12-15, ethoxylated | No data available | | | |
| Benzenesulfonic acid, C10-13-alkyl derivatives, compounds with triethanolamine | No data available | | | |
| 2-methyl-2H-isothiazol-3-one | -0.32 | OECD 107 | No bioaccumulation expected | |

Bioconcentration factor (BCF)

| Ingredient(s) | Value | Species | Method | Evaluation | Remark |
|---|---|---|---|---|---|
| sodium alkylbenzenesulphonate | 2-1000 | | Method not given | High potential for bioaccumulation | |
| Poly(oxy-1,2-ethanediyl), .alpha.-sulfo-.omega.-hydroxy-, C12-14-alkyl ethers, sodium salts | No data available | | | | |
| Alcohols, C12-15, ethoxylated | No data available | | | | |
| Benzenesulfonic acid, C10-13-alkyl derivatives, compounds with triethanolamine | No data available | | | | |
| 2-methyl-2H-isothiazol-3-one | 3.16 | | OECD 305 | | |

**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 |
|---|---|---|---|---|---|
| sodium alkylbenzenesulphonate | No data available | | | | |
| Poly(oxy-1,2-ethanediyl), .alpha.-sulfo-.omega.-hydroxy-, C12-14-alkyl ethers, sodium salts | No data available | | | | |
| Alcohols, C12-15, ethoxylated | No data available | | | | |
| Benzenesulfonic acid, C10-13-alkyl derivatives, compounds with triethanolamine | No data available | | | | |
| 2-methyl-2H-isothiazol-3-one | No data available | | | | |

**12.5 Results of PBT and vPvB assessment**

Substances that fulfill the criteria for PBT/vPvB, if any, are listed in section 3.

**12.6 Other adverse effects**

No other adverse effects known.

## SECTION 13: Disposal considerations

**13.1 Waste treatment methods**

| | |
|---|---|
| **Waste from residues / unused products:** | The concentrated contents or contaminated packaging should be disposed of by a certified handler or according to the site permit. Release of waste to sewers is discouraged. The cleaned packaging material is suitable for energy recovery or recycling in line with local legislation. |
| **European Waste Catalogue:** | 20 01 29* - detergents containing dangerous substances. |
| **Empty packaging Recommendation:** | Dispose of observing national or local regulations. |
| **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:** 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 Transport in bulk according to Annex II of MARPOL and the IBC Code:** Non-dangerous goods

## SECTION 15: Regulatory information

**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

**EU regulations:**
• Regulation (EC) No. 1907/2006 - REACH
• Regulation (EC) No 1272/2008 - CLP
• Regulation (EC) No. 648/2004 - Detergents regulation

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

UFI: HKQ0-W03F-5002-N5QR

**Ingredients according to EC Detergents Regulation 648/2004**

| | |
|---|---|
| anionic surfactants | 5 - 15% |
| non-ionic surfactants, polycarboxylates, soap, phosphonates | < 5 % |
| perfumes , Linalool, Hexyl Cinnamal, Citronellol, Octylisothiazolinone, Alpha-Isomethyl Ionone, enzymes, Methylisothiazolinone | |

The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No. 648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

**15.2 Chemical safety assessment**
A chemical safety assessment has not been carried out on the mixture

## SECTION 16: Other information

*The information in this document is based on our best present knowledge. However, it does not constitute a guarantee for any specific product features and does not establish a legally binding contract*

**SDS code:** MS1000458 **Version:** 08.0 **Revision:** 2020-08-09

**Reason for revision:**
This data sheet contains changes from the previous version in section(s):, 3, 8, 9, 11, 12, 15, 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.
- H226 - Flammable liquid and vapour.
- H228 - Flammable solid.
- H272 - May intensify fire; oxidiser.
- H300 - Fatal if swallowed.
- H301 - Toxic if swallowed.
- H302 - Harmful if swallowed.
- H304 - May be fatal if swallowed and enters airways.
- H310 - Fatal in contact with skin.
- H311 - Toxic in contact with skin.
- H312 - Harmful in contact with skin.
- H314 - Causes severe skin burns and eye damage.
- H315 - Causes skin irritation.
- H317 - May cause an allergic skin reaction.
- H318 - Causes serious eye damage.
- H319 - Causes serious eye irritation.
- H320 - Causes eye irritation.
- H330 - Fatal if inhaled.
- H331 - Toxic if inhaled.
- H332 - Harmful if inhaled.
- H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- H335 - May cause respiratory irritation.
- H370 - Causes damage to organs.
- H400 - Very toxic to aquatic life.
- H410 - Very toxic to aquatic life with long lasting effects.
- H411 - Toxic to aquatic life with long lasting effects.
- H412 - Harmful to aquatic life with long lasting effects.
- EUH071 - Corrosive to the respiratory tract.

**Abbreviations and acronyms:**

- AISE - The international Association for Soaps, Detergents and Maintenance Products
- DNEL - Derived No Effect Limit
- EUH - CLP Specific hazard statement
- PBT - Persistent, Bioaccumulative and Toxic
- PNEC - Predicted No Effect Concentration
- REACH number - REACH registration number, without supplier specific part
- vPvB - very Persistent and very Bioaccumulative
- ATE - Acute Toxicity Estimate
- LD50 - Lethal Dose, 50% / Median Lethal dose
- LC50 - Lethal Concentration, 50% / Median Lethal Concentration
- EC50 - effective concentration, 50%
- NOEL - No observed effect level
- NOAEL - No observed adverse effect level
- OECD - Organization for Economic Cooperation and Development

**End of Safety Data Sheet**