

Sun Professional Washing Up Liquid

Revision: 2024-08-02

Version: 03.0

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

1.1 Product identifier

Trade name: Sun Professional Washing Up Liquid
Sun is a registered trade mark and is used under licence of Unilever

UFI: MV63-E09Q-T00F-0E5T

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

Product use: Dish wash product.
Uses advised against: Uses other than those identified are not recommended.

SWED - Sector-specific worker exposure description :

AISE_SWED_PW_1_1
AISE_SWED_PW_8a_2
PC35-Washing and cleaning products
AISE_SWED_PW_19_1
PC35-Washing and cleaning products

1.3 Details of the supplier of the safety data sheet

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

Contact details

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

1.4 Emergency telephone number

Seek medical advice (show the label or safety data sheet where possible)

24h Notfallauskunft: Für medizinische Auskünfte:
Giftnotruf Berlin Tel: 030 - 306 867 00
Für technische Auskünfte bei Produkthavarien:
24h Notfallauskunft der BASF Werksfeuerwehr,
Tel: 0621- 60 4 33 33

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Eye irritation, Category 2 (H319)

2.2 Label elements



Signal word: Warning.

Hazard statements:

H319 - Causes serious eye irritation.

Precautionary statements:

P101 - If medical advice is needed, have product container or label at hand.
P102 - Keep out of reach of children.

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 |
|--|-----------------------|------------|--|--|-------|----------------|
| Alcohols, C10-16, ethoxylated, sulfated, sodium salts (3 EO) | [4] | 68585-34-2 | [4] | Skin irritation, Category 2 (H315) Serious eye damage, Category 1 (H318) Chronic aquatic toxicity, Category 3 (H412) | | 3-10 |
| sodium alkylbenzenesulphonate | 290-656-6 | 90194-45-9 | [1] | Acute toxicity - Oral, Category 4 (H302) Skin irritation, Category 2 (H315) Serious eye damage, Category 1 (H318) | | 3-10 |
| 1-propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18(even numbered) and C18 unsaturated acyl) derivs., hydroxides, inner salts | 931-296-8 , 931-333-8 | - | 01-211948853 3-30 , 01-211948941 0-39 | Serious eye damage, Category 1 (H318) Chronic aquatic toxicity, Category 3 (H412) | | 1-3 |

Specific concentration limits

1-propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18(even numbered) and C18 unsaturated acyl) derivs., hydroxides, inner salts :
 • Serious eye damage, Category 1 (H318) >= 10% > Eye irritation, Category 2 (H319) >= 4%

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

ATE, if available, are listed in section 11.

[1] Exempted: ionic mixture. See Regulation (EC) No 1907/2006, Annex V, paragraph 3 and 4. This salt is potentially present, based on calculation, and included for classification and labelling purposes only. Each starting material of the ionic mixture is registered, as required.

[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:

Wash skin with plenty of lukewarm, gently flowing water. If skin irritation occurs: Get medical advice or attention.

Eye contact:

Hold eyelids apart and flush eyes with plenty of lukewarm water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If irritation occurs and persists, get medical attention.

Ingestion:

Rinse mouth. Immediately drink 1 glass of water. Never give anything by mouth to an unconscious person. Get medical attention or advice if you feel unwell.

Self-protection of first aider:

Consider personal protective equipment as indicated in subsection 8.2.

4.2 Most important symptoms and effects, both acute and delayed

Inhalation: No known effects or symptoms in normal use.

Skin contact: No known effects or symptoms in normal use.

Eye contact: Causes severe irritation.

Ingestion: No known effects or symptoms in normal use.

4.3 Indication of any immediate medical attention and special treatment needed

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

SECTION 5: Firefighting measures

5.1 Extinguishing media

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

5.2 Special hazards arising from the substance or mixture

No special hazards known.

5.3 Advice for firefighters

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

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

No special measures required.

6.2 Environmental precautions

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

6.3 Methods and material for containment and cleaning up

Dyke to collect large liquid spills. Absorb with liquid-binding material (sand, diatomite, universal binders). Do not place spilled materials back

Sun Professional Washing Up Liquid

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 advised by Diversey. Wash face, hands and any exposed skin thoroughly after handling. Avoid contact with 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. 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/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 |
|--|----------------------------|-------------------------------|---------------------------|------------------------------|
| Alcohols, C10-16, ethoxylated, sulfated, sodium salts (3 EO) sodium alkylbenzenesulphonate | No data available - | No data available - | No data available - | No data available 0.425 |
| 1-propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18(even numbered) and C18 unsaturated acyl) derivs., hydroxides, inner salts | - | - | - | 7.5 |

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) |
|--|--|--|--|---|
| Alcohols, C10-16, ethoxylated, sulfated, sodium salts (3 EO) sodium alkylbenzenesulphonate | No data available No data available | No data available - | No data available No data available | No data available - |
| 1-propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18(even numbered) and C18 unsaturated acyl) derivs., hydroxides, inner salts | No data available | - | No data available | 12.5 |

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) |
|--|--|--|--|---|
| Alcohols, C10-16, ethoxylated, sulfated, sodium salts (3 EO) sodium alkylbenzenesulphonate | No data available No data available | No data available - | No data available No data available | No data available - |
| 1-propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18(even numbered) and C18 unsaturated acyl) derivs., hydroxides, inner salts | No data available | - | No data available | 7.5 |

Sun Professional Washing Up Liquid

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 |
|--|----------------------------|-------------------------------|---------------------------|------------------------------|
| Alcohols, C10-16, ethoxylated, sulfated, sodium salts (3 EO) sodium alkylbenzenesulphonate | No data available | No data available | No data available | No data available |
| 1-propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18(even numbered) and C18 unsaturated acyl) derivs., hydroxides, inner salts | - | - | - | 44 |

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 |
|--|----------------------------|-------------------------------|---------------------------|------------------------------|
| Alcohols, C10-16, ethoxylated, sulfated, sodium salts (3 EO) sodium alkylbenzenesulphonate | No data available | No data available | No data available | No data available |
| 1-propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18(even numbered) and C18 unsaturated acyl) derivs., hydroxides, inner salts | - | - | - | - |

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) |
|--|-----------------------------|------------------------------|---------------------|-------------------------------|
| Alcohols, C10-16, ethoxylated, sulfated, sodium salts (3 EO) sodium alkylbenzenesulphonate | No data available | No data available | No data available | No data available |
| 1-propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18(even numbered) and C18 unsaturated acyl) derivs., hydroxides, inner salts | 0.0135 | 0.00135 | - | 3000 |

Environmental exposure - PNEC, continued

| Ingredient(s) | Sediment, freshwater (mg/kg) | Sediment, marine (mg/kg) | Soil (mg/kg) | Air (mg/m ³) |
|--|------------------------------|--------------------------|-------------------|--------------------------|
| Alcohols, C10-16, ethoxylated, sulfated, sodium salts (3 EO) sodium alkylbenzenesulphonate | No data available | No data available | No data available | No data available |
| 1-propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18(even numbered) and C18 unsaturated acyl) derivs., hydroxides, inner salts | 1 | 0.1 | 0.8 | - |

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: No special requirements under normal use conditions.

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 |
|------------------------------------|--|-----|---------|----------------|-------|
| PC35-Washing and cleaning products | PC35-Washing and cleaning products | C | - | - | ERC8a |
| Manual transfer and dilution | AISE_SWED_PW_8a_2 | PW | PROC 8a | 60 | ERC8a |
| Manual transfer and dilution | AISE_SWED_PW_1_1 | PW | PROC 1 | 60 | ERC8a |

Personal protective equipment

Eye / face protection:

Safety glasses are not normally required. However, their use is recommended in those cases where splashes may occur when handling the product (EN 16321 / EN 166).

Hand protection:

No special requirements under normal use conditions.

Body protection:

No special requirements under normal use conditions.

Respiratory protection:

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 (% w/w): 1

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

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

Sun Professional Washing Up Liquid

REACH use scenarios considered for the diluted product:

| | SWED | LCS | PROC | Duration (min) | ERC |
|------------------------------------|------------------------------------|-----|---------|----------------|-------|
| PC35-Washing and cleaning products | PC35-Washing and cleaning products | C | - | - | ERC8a |
| Manual application | AISE_SWED_PW_19_1 | PW | PROC 19 | 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:** 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 , Medium , Green**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) |
|--|-------------------|--------|----------------------------|
| Alcohols, C10-16, ethoxylated, sulfated, sodium salts (3 EO) | No data available | | |
| sodium alkylbenzenesulphonate | No data available | | |
| 1-propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18(even numbered) and C18 unsaturated acyl) derivs., hydroxides, inner salts | No data available | | |

Method / remark**Flammability (solid, gas):** Not applicable to liquids**Flammability (liquid):** Not flammable.**Flash point (°C):** > 93 °C

closed cup

Sustained combustion: The product does not sustain combustion

Weight of evidence

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

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:** ≈ 5 (neat)

ISO 4316

Dilution pH: ≈ 7 (1 %)

ISO 4316

Kinematic viscosity: ≈ 1000 mPa.s (20 °C)**Solubility in / Miscibility with water:** Fully miscible

Substance data, solubility in water

| Ingredient(s) | Value (g/l) | Method | Temperature (°C) |
|--|-------------------|--------|------------------|
| Alcohols, C10-16, ethoxylated, sulfated, sodium salts (3 EO) | No data available | | |
| sodium alkylbenzenesulphonate | No data available | | |
| 1-propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18(even numbered) and C18 unsaturated acyl) derivs., hydroxides, inner salts | No data available | | |

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

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

See substance data

Substance data, vapour pressure

| Ingredient(s) | Value (Pa) | Method | Temperature (°C) |
|--|-------------------|--------|------------------|
| Alcohols, C10-16, ethoxylated, sulfated, sodium salts (3 EO) | No data available | | |

Sun Professional Washing Up Liquid

| | | | |
|--|-------------------|--|--|
| sodium alkylbenzenesulphonate | No data available | | |
| 1-propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18(even numbered) and C18 unsaturated acyl) derivs., hydroxides, inner salts | No data available | | |

Relative density: ≈ 1.02 (20 °C)

Relative vapour density: No data available.

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

Weight of evidence

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 hazard classes as defined in Regulation (EC) No 1272/2008

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) | ATE Oral (mg/kg) |
|--|------------------|---------------|---------|-------------------|-------------------|------------------|
| Alcohols, C10-16, ethoxylated, sulfated, sodium salts (3 EO) | LD ₅₀ | > 2000 | Rat | OECD 401 (EU B.1) | | Not established |
| sodium alkylbenzenesulphonate | LD ₅₀ | > 1470 | Rat | OECD 401 (EU B.1) | | 1470 |
| 1-propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18(even numbered) and C18 unsaturated acyl) derivs., hydroxides, inner salts | LD ₅₀ | 2335 | Rat | Method not given | | Not established |

Acute dermal toxicity

| Ingredient(s) | Endpoint | Value (mg/kg) | Species | Method | Exposure time (h) | ATE Dermal (mg/kg) |
|--|------------------|-------------------|---------|-------------------|-------------------|--------------------|
| Alcohols, C10-16, ethoxylated, sulfated, sodium salts (3 EO) | LD ₅₀ | > 2000 | Rat | OECD 402 (EU B.3) | | Not established |
| sodium alkylbenzenesulphonate | | No data available | | | | Not established |
| 1-propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, | | No data | | | | Not established |

Sun Professional Washing Up Liquid

| | | | | | | |
|--|--|-----------|--|--|--|--|
| N-(C8-18(even numbered) and C18 unsaturated acyl) derivs., hydroxides, inner salts | | available | | | | |
|--|--|-----------|--|--|--|--|

Acute inhalative toxicity

| Ingredient(s) | Endpoint | Value (mg/l) | Species | Method | Exposure time (h) |
|--|----------|-------------------|---------|--------|-------------------|
| Alcohols, C10-16, ethoxylated, sulfated, sodium salts (3 EO) | | No data available | | | |
| sodium alkylbenzenesulphonate | | No data available | | | |
| 1-propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18(even numbered) and C18 unsaturated acyl) derivs., hydroxides, inner salts | | 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) |
|--|-------------------------------|-------------------------------|---------------------------------|------------------------------|
| Alcohols, C10-16, ethoxylated, sulfated, sodium salts (3 EO) | Not established | Not established | Not established | Not established |
| sodium alkylbenzenesulphonate | Not established | Not established | Not established | Not established |
| 1-propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18(even numbered) and C18 unsaturated acyl) derivs., hydroxides, inner salts | Not established | Not established | Not established | Not established |

Irritation and corrosivity

Skin irritation and corrosivity

| Ingredient(s) | Result | Species | Method | Exposure time |
|--|---------------|---------|-------------------|---------------|
| Alcohols, C10-16, ethoxylated, sulfated, sodium salts (3 EO) | Irritant | Rabbit | OECD 404 (EU B.4) | |
| sodium alkylbenzenesulphonate | Irritant | Rabbit | OECD 404 (EU B.4) | |
| 1-propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18(even numbered) and C18 unsaturated acyl) derivs., hydroxides, inner salts | Mild irritant | Rabbit | OECD 404 (EU B.4) | |

Eye irritation and corrosivity

| Ingredient(s) | Result | Species | Method | Exposure time |
|--|---------------|---------|-------------------|---------------|
| Alcohols, C10-16, ethoxylated, sulfated, sodium salts (3 EO) | Severe damage | Rabbit | OECD 405 (EU B.5) | |
| sodium alkylbenzenesulphonate | Severe damage | Rabbit | OECD 405 (EU B.5) | |
| 1-propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18(even numbered) and C18 unsaturated acyl) derivs., hydroxides, inner salts | Severe damage | Rabbit | OECD 405 (EU B.5) | |

Respiratory tract irritation and corrosivity

| Ingredient(s) | Result | Species | Method | Exposure time |
|--|-------------------|---------|--------|---------------|
| Alcohols, C10-16, ethoxylated, sulfated, sodium salts (3 EO) | No data available | | | |
| sodium alkylbenzenesulphonate | No data available | | | |
| 1-propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18(even numbered) and C18 unsaturated acyl) derivs., hydroxides, inner salts | No data available | | | |

Sensitisation

Sensitisation by skin contact

| Ingredient(s) | Result | Species | Method | Exposure time (h) |
|--|-----------------|------------|--------------------------|-------------------|
| Alcohols, C10-16, ethoxylated, sulfated, sodium salts (3 EO) | Not sensitising | Guinea pig | OECD 406 (EU B.6) | |
| sodium alkylbenzenesulphonate | Not sensitising | Guinea pig | OECD 406 (EU B.6) / GPMT | |
| 1-propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18(even numbered) and C18 unsaturated acyl) derivs., hydroxides, inner salts | Not sensitising | Guinea pig | OECD 406 (EU B.6) / GPMT | |

Sensitisation by inhalation

| Ingredient(s) | Result | Species | Method | Exposure time |
|--|-------------------|---------|--------|---------------|
| Alcohols, C10-16, ethoxylated, sulfated, sodium salts (3 EO) | No data available | | | |
| sodium alkylbenzenesulphonate | No data available | | | |
| 1-propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18(even numbered) and C18 unsaturated acyl) derivs., hydroxides, inner salts | 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) |
|--|-------------------|-------------------|-------------------|------------------|
| Alcohols, C10-16, ethoxylated, sulfated, sodium salts (3 EO) | No data available | | No data available | |
| sodium alkylbenzenesulphonate | No data available | | No data available | |
| 1-propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18(even numbered) and C18 unsaturated acyl) derivs., hydroxides, inner salts | No data available | | No data available | |

Sun Professional Washing Up Liquid

Carcinogenicity

| Ingredient(s) | Effect |
|--|-------------------|
| Alcohols, C10-16, ethoxylated, sulfated, sodium salts (3 EO) | No data available |
| sodium alkylbenzenesulphonate | No data available |
| 1-propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18(even numbered) and C18 unsaturated acyl) derivs., hydroxides, inner salts | 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 |
|--|----------|-----------------|--------------------|---------|--------|---------------|------------------------------------|
| Alcohols, C10-16, ethoxylated, sulfated, sodium salts (3 EO) | | | No data available | | | | |
| sodium alkylbenzenesulphonate | | | No data available | | | | |
| 1-propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18(even numbered) and C18 unsaturated acyl) derivs., hydroxides, inner salts | | | 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 |
|--|----------|--------------------|---------|--------------------|----------------------|--------------------------------------|
| Alcohols, C10-16, ethoxylated, sulfated, sodium salts (3 EO) | NOAEL | No data available | Rat | OECD 408 (EU B.26) | 90 | |
| sodium alkylbenzenesulphonate | | No data available | | | | |
| 1-propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18(even numbered) and C18 unsaturated acyl) derivs., hydroxides, inner salts | NOAEL | 76.5 | Rat | Method not given | 90 | |

Sub-chronic dermal toxicity

| Ingredient(s) | Endpoint | Value (mg/kg bw/d) | Species | Method | Exposure time (days) | Specific effects and organs affected |
|--|----------|--------------------|---------|--------|----------------------|--------------------------------------|
| Alcohols, C10-16, ethoxylated, sulfated, sodium salts (3 EO) | | No data available | | | | |
| sodium alkylbenzenesulphonate | | No data available | | | | |
| 1-propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18(even numbered) and C18 unsaturated acyl) derivs., hydroxides, inner salts | | 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 |
|--|----------|--------------------|---------|--------|----------------------|--------------------------------------|
| Alcohols, C10-16, ethoxylated, sulfated, sodium salts (3 EO) | | No data available | | | | |
| sodium alkylbenzenesulphonate | | No data available | | | | |
| 1-propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18(even numbered) and C18 unsaturated acyl) derivs., hydroxides, inner salts | | 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 |
|--|----------------|----------|--------------------|---------|--------|---------------|--------------------------------------|--------|
| Alcohols, C10-16, ethoxylated, sulfated, sodium salts (3 EO) | | | No data available | | | | | |
| sodium alkylbenzenesulphonate | | | No data available | | | | | |
| 1-propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18(even numbered) and C18 unsaturated acyl) derivs., hydroxides, inner salts | | | No data available | | | | | |

Sun Professional Washing Up Liquid

| | | | | | | | |
|--|--|--|--|--|--|--|--|
| unsaturated acyl) derivs., hydroxides, inner salts | | | | | | | |
|--|--|--|--|--|--|--|--|

STOT-single exposure

| Ingredient(s) | Affected organ(s) |
|--|-------------------|
| Alcohols, C10-16, ethoxylated, sulfated, sodium salts (3 EO) | No data available |
| sodium alkylbenzenesulphonate | No data available |
| 1-propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18(even numbered) and C18 unsaturated acyl) derivs., hydroxides, inner salts | No data available |

STOT-repeated exposure

| Ingredient(s) | Affected organ(s) |
|--|-------------------|
| Alcohols, C10-16, ethoxylated, sulfated, sodium salts (3 EO) | No data available |
| sodium alkylbenzenesulphonate | No data available |
| 1-propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18(even numbered) and C18 unsaturated acyl) derivs., hydroxides, inner salts | 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) |
|--|------------------|--------------|----------------------------|------------------------|-------------------|
| Alcohols, C10-16, ethoxylated, sulfated, sodium salts (3 EO) | LC ₅₀ | > 1 - 10 | <i>Brachydanio rerio</i> | OECD 203, flow-through | 96 |
| sodium alkylbenzenesulphonate | LC ₅₀ | 1.67 | <i>Lepomis macrochirus</i> | EPA-OPPTS 850.1075 | 96 |
| 1-propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18(even numbered) and C18 unsaturated acyl) derivs., hydroxides, inner salts | LC ₅₀ | 1.11 | <i>Pimephales promelas</i> | OECD 203, semi-static | 96 |

Aquatic short-term toxicity - crustacea

| Ingredient(s) | Endpoint | Value (mg/l) | Species | Method | Exposure time (h) |
|--|------------------|--------------|-----------------------------|------------------|-------------------|
| Alcohols, C10-16, ethoxylated, sulfated, sodium salts (3 EO) | EC ₅₀ | > 1 - 10 | <i>Daphnia magna Straus</i> | OECD 202, static | 48 |
| sodium alkylbenzenesulphonate | EC ₅₀ | 1.62 | <i>Daphnia magna Straus</i> | | 48 |
| 1-propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18(even numbered) and C18 unsaturated acyl) derivs., hydroxides, inner salts | EC ₅₀ | 1.9 | <i>Daphnia magna Straus</i> | OECD 202, static | 48 |

Aquatic short-term toxicity - algae

| Ingredient(s) | Endpoint | Value (mg/l) | Species | Method | Exposure time (h) |
|--|--------------------------------|--------------|----------------------------------|--------------------|-------------------|
| Alcohols, C10-16, ethoxylated, sulfated, sodium salts (3 EO) | EC ₅₀ | > 1 - 10 | | OECD 201, static | 72 |
| sodium alkylbenzenesulphonate | EC ₅₀ | 29 | <i>Selenastrum capricornutum</i> | | 96 |
| 1-propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18(even numbered) and C18 unsaturated acyl) derivs., hydroxides, inner salts | E _r C ₅₀ | 2.4 | <i>Desmodesmus subspicatus</i> | Weight of evidence | 72 |

Aquatic short-term toxicity - marine species

| Ingredient(s) | Endpoint | Value (mg/l) | Species | Method | Exposure time (days) |
|---------------|----------|--------------|---------|--------|----------------------|
|---------------|----------|--------------|---------|--------|----------------------|

Sun Professional Washing Up Liquid

| | | | | |
|--|--|-------------------|--|--|
| Alcohols, C10-16, ethoxylated, sulfated, sodium salts (3 EO) | | No data available | | |
| sodium alkylbenzenesulphonate | | No data available | | |
| 1-propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18(even numbered) and C18 unsaturated acyl) derivs., hydroxides, inner salts | | No data available | | |

Impact on sewage plants - toxicity to bacteria

| Ingredient(s) | Endpoint | Value (mg/l) | Inoculum | Method | Exposure time |
|--|------------------|-------------------|---------------------------|--------|---------------|
| Alcohols, C10-16, ethoxylated, sulfated, sodium salts (3 EO) | EC ₁₀ | > 10000 | <i>Pseudomonas putida</i> | | |
| sodium alkylbenzenesulphonate | | No data available | | | |
| 1-propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18(even numbered) and C18 unsaturated acyl) derivs., hydroxides, inner salts | | No data available | | | |

Aquatic long-term toxicity

Aquatic long-term toxicity - fish

| Ingredient(s) | Endpoint | Value (mg/l) | Species | Method | Exposure time | Effects observed |
|--|----------|--------------|----------------------------|------------------|---------------|------------------|
| Alcohols, C10-16, ethoxylated, sulfated, sodium salts (3 EO) | NOEC | 0.12 | <i>Oncorhynchus mykiss</i> | Method not given | 28 day(s) | |
| sodium alkylbenzenesulphonate | NOEC | > 2.5-1 | | Method not given | | |
| 1-propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18(even numbered) and C18 unsaturated acyl) derivs., hydroxides, inner salts | NOEC | 0.135 | <i>Oncorhynchus mykiss</i> | OECD 210 | 37 day(s) | |

Aquatic long-term toxicity - crustacea

| Ingredient(s) | Endpoint | Value (mg/l) | Species | Method | Exposure time | Effects observed |
|--|----------|-------------------|----------------------|-----------------------|---------------|------------------|
| Alcohols, C10-16, ethoxylated, sulfated, sodium salts (3 EO) | | No data available | | | | |
| sodium alkylbenzenesulphonate | | No data available | | | | |
| 1-propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18(even numbered) and C18 unsaturated acyl) derivs., hydroxides, inner salts | NOEC | 0.3 | <i>Daphnia magna</i> | OECD 211, semi-static | 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 |
|--|----------|---------------------------|---------|------------------|----------------------|------------------|
| Alcohols, C10-16, ethoxylated, sulfated, sodium salts (3 EO) | | No data available | | | | |
| sodium alkylbenzenesulphonate | | No data available | | | | |
| 1-propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18(even numbered) and C18 unsaturated acyl) derivs., hydroxides, inner salts | NOEC | ≥ 846 | | Method not given | 14 | |

Terrestrial toxicity

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

Terrestrial toxicity - plants, if available:

| Ingredient(s) | Endpoint | Value (mg/kg dw soil) | Species | Method | Exposure time (days) | Effects observed |
|--|----------|-----------------------|---|----------|----------------------|------------------|
| 1-propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18(even numbered) and C18 unsaturated acyl) derivs., hydroxides, inner salts | NOEC | 84.6 | <i>Triticum aestivum</i> <i>Lepidium sativum</i> <i>Brassica alba</i> | OECD 208 | 17 | |

Terrestrial toxicity - birds, if available:

Terrestrial toxicity - beneficial insects, if available:

Terrestrial toxicity - soil bacteria, if available:

12.2 Persistence and degradability

Sun Professional Washing Up Liquid

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 |
|--|--------------------------|----------------------------|---------------------|-----------|-----------------------|
| Alcohols, C10-16, ethoxylated, sulfated, sodium salts (3 EO) | Activated sludge, aerobe | CO ₂ production | > 60 % in 28 day(s) | OECD 301B | Readily biodegradable |
| sodium alkylbenzenesulphonate | Activated sludge, aerobe | CO ₂ production | 85% in 29 day(s) | OECD 301B | Readily biodegradable |
| 1-propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18(even numbered) and C18 unsaturated acyl) derivs., hydroxides, inner salts | Activated sludge, aerobe | CO ₂ production | 91.6 % in 28 day(s) | OECD 301B | Readily biodegradable |

Ready biodegradability - anaerobic and marine conditions, if available:

Degradation in relevant environmental compartments, if available:

12.3 Bioaccumulative potentialPartition coefficient n-octanol/water (log K_{ow})

| Ingredient(s) | Value | Method | Evaluation | Remark |
|--|-------------------|--------|------------|--------|
| Alcohols, C10-16, ethoxylated, sulfated, sodium salts (3 EO) | No data available | | | |
| sodium alkylbenzenesulphonate | No data available | | | |
| 1-propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18(even numbered) and C18 unsaturated acyl) derivs., hydroxides, inner salts | No data available | | | |

Bioconcentration factor (BCF)

| Ingredient(s) | Value | Species | Method | Evaluation | Remark |
|--|-------------------|---------|------------------|------------|--------|
| Alcohols, C10-16, ethoxylated, sulfated, sodium salts (3 EO) | No data available | | | | |
| sodium alkylbenzenesulphonate | No data available | | | | |
| 1-propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18(even numbered) and C18 unsaturated acyl) derivs., hydroxides, inner salts | 71 | | Method not given | | |

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 |
|--|--|---|------------------|--------------------|------------|
| Alcohols, C10-16, ethoxylated, sulfated, sodium salts (3 EO) | No data available | | | | |
| sodium alkylbenzenesulphonate | No data available | | | | |
| 1-propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18(even numbered) and C18 unsaturated acyl) derivs., hydroxides, inner salts | 2.0-5.1 | | Method not given | | |

12.5 Results of PBT and vPvB assessment

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

12.6 Endocrine disrupting properties

Endocrine disrupting properties - Environmental effects, if available:

12.7 Other adverse effects

No other adverse effects known.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste from residues / unused products:

The concentrated contents or contaminated packaging should be disposed of by a certified handler or according to the site permit. Release of waste to sewers is discouraged. The cleaned packaging material is suitable for energy recovery or recycling in line with local legislation.

European Waste Catalogue:

20 01 29* - detergents containing dangerous substances.

Empty packaging

Recommendation:

Dispose of observing national or local regulations.

Suitable cleaning agents:

Water, if necessary with cleaning agent.

SECTION 14: Transport information

Land transport (ADR/RID), Sea transport (IMDG), Air transport (ICAO-TI / IATA-DGR)

14.1 UN number or ID number: Non-dangerous goods

14.2 UN proper shipping name: Non-dangerous goods

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

14.4 Packing group: Non-dangerous goods

14.5 Environmental hazards: Non-dangerous goods

14.6 Special precautions for user: Non-dangerous goods

14.7 Maritime transport in bulk according to IMO instruments: Non-dangerous goods

SECTION 15: Regulatory information

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

EU regulations:

- Regulation (EC) No. 1907/2006 - REACH
- Regulation (EC) No 1272/2008 - CLP
- Regulation (EC) No. 648/2004 - Detergents regulation
- substances identified as having endocrine disrupting properties in accordance with the criteria set out in Delegated Regulation (EU) 2017/2100 or Regulation (EU) 2018/605
- Agreement concerning the International Carriage of Dangerous Goods by Road (ADR)
- International Maritime Dangerous Goods (IMDG) Code

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

Ingredients according to EC Detergents Regulation 648/2004

| | |
|--|----------|
| anionic surfactants | 5 - 15 % |
| amphoteric surfactants | < 5 % |
| perfumes , 2-Bromo-2-Nitropropane-1,3-Diol | |

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

Seveso - Classification: Not classified

National regulations :

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

Klassifizierung nach Betriebssicherheitsverordnung (BetrSichV): -

Lagerklasse gemäß TRGS 510: Lagerklasse 12: Nichtbrennbare Flüssigkeiten

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

15.2 Chemical safety assessment

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

SECTION 16: Other information

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

SDS code: MS1003535

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):, 1, 3, 6, 7, 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.

Abbreviations and acronyms:

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

End of Safety Data Sheet