# Safety Data Sheet

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

## Suma Star Des D1.55

**Revision:** 2023-06-20 **Version:** 02.2

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

**1.1 Product identifier**
**Trade name:** Suma Star Des D1.55

UFI: 9RQ2-A0TU-W00C-KAMF

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

| | |
|---|---|
| **Product use:** | Hard surface cleaner.<br>Surface disinfectant.<br>for general surface disinfection<br>for food contact surface disinfection<br>For professional use only. |
| **Uses advised against:** | Uses other than those identified are not recommended. |

**SWED - Sector-specific worker exposure description :**
AISE_SWED_PW_8a_1
AISE_SWED_PW_10_1
AISE_SWED_PW_11_1
AISE_SWED_PW_19_1

**1.3 Details of the supplier of the safety data sheet**
Diversey Europe Operations BV, 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 Irrit. 2 (H315)
Eye Dam. 1 (H318)
Aquatic Chronic 3 (H412)
Met. Corr. 1 (H290)

**2.2 Label elements**

**Signal word:** Danger.

Contains amines, C12-14 (even numbered)-alkyldimethyl, N-oxides (Lauramine oxide), 1-propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-coco acyl derivs., hydroxides, inner salts (Cocamidopropyl Betaine), N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine (Laurylamine Dipropylenediamine)

**Hazard statements:**
H290 - May be corrosive to metals.
H315 - Causes skin irritation.
H318 - Causes serious eye damage.

H412 - Harmful to aquatic life with long lasting effects.

**Precautionary statements:**
P280 - Wear eye or face protection.
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. 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 |
|---|---|---|---|---|---|---|
| trisodium citrate | 200-675-3 | 68-04-2 | [1] | Met. Corr. 1 (H290) | | 10-20 |
| amines, C12-14 (even numbered)-alkyldimethyl, N-oxides | 931-292-6 | 308062-28-4 | 01-2119490061-47 | Acute Tox. 4 (H302)<br>Skin Irrit. 2 (H315)<br>Eye Dam. 1 (H318)<br>Aquatic Acute 1 (H400)<br>Aquatic Chronic 2 (H411) | | 3-10 |
| 1-propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-coco acyl derivs., hydroxides, inner salts | 263-058-8 | - | 01-2119489410-39<br>01-2119513359-38<br>01-2119488533-30 | Eye Dam. 1 (H318)<br>Aquatic Chronic 3 (H412) | | 3-10 |
| alkyl polyglucoside | 600-975-8 | 110615-47-9 | 01-2119489418-23 | Skin Irrit. 2 (H315)<br>Eye Dam. 1 (H318) | | 1-3 |
| N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine | 219-145-8 | 2372-82-9 | [6] | Acute Tox. 3 (H301)<br>Skin Corr. 1B (H314)<br>STOT RE 2 (H373)<br>Eye Dam. 1 (H318)<br>Aquatic Acute 1 M=10 (H400)<br>Aquatic Chronic 1 (H410)<br>Met. Corr. 1 (H290) | | 1-3 |

**Specific concentration limits**
1-propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-coco acyl derivs., hydroxides, inner salts:
• Eye Dam. 1 (H318) >= 10% > Eye Irrit. 2 (H319) >= 4%
alkyl polyglucoside:
• Skin Irrit. 2 (H315) >= 30%
• Eye Dam. 1 (H318) >= 12% > Eye Irrit. 2 (H319) >= 1%

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.
[6] Exempted: biocidal active. See Article 15(2) 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. Immediately call a POISON CENTRE, doctor or physician.
**Ingestion:** Rinse mouth. Immediately drink 1 glass of water. Never give anything by mouth to an unconscious person. Get medical attention or advice if you feel unwell.
**Self-protection of first aider:** Consider personal protective equipment as indicated in subsection 8.2.

**4.2 Most important symptoms and effects, both acute and delayed**
**Inhalation:** No known effects or symptoms in normal use.
**Skin contact:** Causes irritation.
**Eye contact:** Causes severe or permanent damage.
**Ingestion:** No known effects or symptoms in normal use.

**4.3 Indication of any immediate medical attention and special treatment needed**
No information available on clinical testing and medical monitoring. Specific toxicological information on substances, if available, can be found in section 11.

## SECTION 5: Firefighting measures

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

**5.2 Special hazards arising from the substance or mixture**
No special hazards known.

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

## SECTION 6: Accidental release measures

**6.1 Personal precautions, protective equipment and emergency procedures**
Wear eye/face protection. Repeated or prolonged contact:. Wear suitable gloves.

**6.2 Environmental precautions**
Dilute with plenty of water. Do not allow to enter drainage system, surface or ground water. Do not allow to enter the ground/soil. Inform responsible authorities in case undiluted product reaches drainage system, surface or ground water or the ground/soil.

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

**6.4 Reference to other sections**
For personal protective equipment see subsection 8.2. For disposal considerations see section 13.

## SECTION 7: Handling and storage

**7.1 Precautions for safe handling**
**Measures to prevent fire and explosions:**
No special precautions required.
**Measures required to protect the environment:**
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 contaminated clothing. Wash contaminated clothing before reuse. Avoid contact with skin and eyes. Do not breathe spray. Use only with adequate ventilation. See chapter 8.2, Exposure controls / Personal protection.

**7.2 Conditions for safe storage, including any incompatibilities**
Store in accordance with local and national regulations. Store in a closed container. Keep only in original packaging. Keep from freezing.
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 |
|---|---|---|---|---|
| trisodium citrate | - | - | - | - |
| amines, C12-14 (even numbered)-alkyldimethyl, N-oxides | - | - | - | 0.44 |
| 1-propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, | - | - | - | 7.5 |

| | | | | |
|---|---|---|---|---|
| N-coco acyl derivs., hydroxides, inner salts | | | | |
| alkyl polyglucoside | - | - | - | 35.7 |
| N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine | - | - | - | 0.04 |

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) |
|---|---|---|---|---|
| trisodium citrate | No data available | - | No data available | - |
| amines, C12-14 (even numbered)-alkyldimethyl, N-oxides | No data available | - | - % | 11 |
| 1-propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-coco acyl derivs., hydroxides, inner salts | - | - | - | 12.5 |
| alkyl polyglucoside | No data available | - | No data available | 595000 |
| N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine | - | - | - | 0.91 |

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) |
|---|---|---|---|---|
| trisodium citrate | No data available | - | No data available | - |
| amines, C12-14 (even numbered)-alkyldimethyl, N-oxides | No data available | - | - % | 5.5 |
| 1-propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-coco acyl derivs., hydroxides, inner salts | - | - | - | 7.5 |
| alkyl polyglucoside | No data available | - | No data available | 357000 |
| N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine | - | - | - | 0.54 |

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 |
|---|---|---|---|---|
| trisodium citrate | - | - | - | - |
| amines, C12-14 (even numbered)-alkyldimethyl, N-oxides | - | - | - | 6.2 |
| 1-propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-coco acyl derivs., hydroxides, inner salts | - | - | - | 44 |
| alkyl polyglucoside | - | - | - | 420 |
| N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine | - | - | - | 2.35 |

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 |
|---|---|---|---|---|
| trisodium citrate | - | - | - | - |
| amines, C12-14 (even numbered)-alkyldimethyl, N-oxides | - | - | - | 1.53 |
| 1-propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-coco acyl derivs., hydroxides, inner salts | - | - | - | 13.4 |
| alkyl polyglucoside | - | - | - | 124 |
| N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine | - | - | - | 0.7 |

**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) |
|---|---|---|---|---|
| trisodium citrate | 0.44 | 0.044 | - | 1000 |
| amines, C12-14 (even numbered)-alkyldimethyl, N-oxides | 0.0335 | 0.00335 | 0.0335 | 24 |
| 1-propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-coco acyl derivs., hydroxides, inner salts | 0.013 | 0.001 | - | 3000 |
| alkyl polyglucoside | 0.176 | 0.018 | 0.0295 | 5000 |
| N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine | 0.001 | 0.0001 | 0.00015 | 1.33 |

Environmental exposure - PNEC, continued

| Ingredient(s) | Sediment, freshwater (mg/kg) | Sediment, marine (mg/kg) | Soil (mg/kg) | Air (mg/m³) |
|---|---|---|---|---|
| trisodium citrate | 34.6 | 3.46 | 33.1 | - |
| amines, C12-14 (even numbered)-alkyldimethyl, N-oxides | 5.24 | 0.524 | 1.02 | - |
| 1-propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-coco acyl derivs., hydroxides, inner salts | - | 1.11 | 0.85 | - |
| alkyl polyglucoside | 1.516 | 0.065 | 0.654 | - |
| N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine | 8.5 | 0.85 | 45.34 | - |

**8.2 Exposure controls**

*The following information applies for the uses indicated in subsection 1.2 of the Safety Data Sheet.*
*If available, please refer to the product information sheet for application and handling instructions.*
*Normal use conditions are assumed for this section.*

*Recommended safety measures for handling the undiluted product:*

**Appropriate engineering controls:** If the product is diluted by using specific dosing systems with no risk of splashes or direct skin contact, the personal protection equipment as described in this section is not required.
**Appropriate organisational controls:** Avoid direct contact and/or splashes where possible. Train personnel.

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

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

**Personal protective equipment**
**Eye / face protection:** Safety glasses or goggles (EN 166).
**Hand protection:** Rinse and dry hands after use. For prolonged contact protection for the skin may be necessary. Repeated or prolonged contact: Chemical-resistant protective gloves (EN 374). Verify instructions regarding permeability and breakthrough time, as provided by the gloves supplier. Consider specific local use conditions, such as risk of splashes, cuts, contact time and temperature.
Suggested gloves for prolonged contact: Material: butyl rubber Penetration time: ≥ 480 min Material thickness: ≥ 0.7 mm
Suggested gloves for protection against splashes: Material: nitrile rubber Penetration time: ≥ 30 min Material thickness: ≥ 0.4 mm
In consultation with the supplier of protective gloves a different type providing similar protection may be chosen.
**Body protection:** No special requirements under normal use conditions.
**Respiratory protection:** No special requirements under normal use conditions.

**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):** 2

**Appropriate engineering controls:** Provide a good standard of general ventilation.
**Appropriate organisational controls:** No special requirements under normal use conditions.

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

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

**Personal protective equipment**
**Eye / face protection:** No special requirements under normal use conditions.
**Hand protection:** No special requirements under normal use conditions.
**Body protection:** No special requirements under normal use conditions.
**Respiratory protection:** Trigger spray bottle application: No special requirements under normal use conditions. Apply technical measures to comply with the occupational exposure limits, if available.

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

## SECTION 9: Physical and chemical properties

**9.1 Information on basic physical and chemical properties**
**Information in this section refers to the product, unless it is specifically stated that substance data is listed**

| | Method / remark |
|---|---|
| **Physical state:** Liquid | |
| **Colour:** Clear , Yellow | |
| **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) |
|---|---|---|---|
| trisodium citrate | No data available | | |
| amines, C12-14 (even numbered)-alkyldimethyl, N-oxides | > 100 | Method not given | |

| | | | |
|---|---|---|---|
| 1-propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-coco acyl derivs., hydroxides, inner salts | No data available | | |
| alkyl polyglucoside | > 100 | Method not given | 1013 |
| N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine | No data available | | |

**Method / remark**

**Flammability (solid, gas):** Not applicable to liquids
**Flammability (liquid):** Not flammable.
**Flash point (°C):** Not applicable.
**Sustained combustion:** Not applicable.
*( 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:** ≈ 10 (neat) ISO 4316
**Dilution pH:** ≈ 10 (2 %) 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) |
|---|---|---|---|
| trisodium citrate | No data available | | |
| amines, C12-14 (even numbered)-alkyldimethyl, N-oxides | 409.5 Soluble | Method not given | 20 |
| 1-propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-coco acyl derivs., hydroxides, inner salts | No data available | | |
| alkyl polyglucoside | No data available | | |
| N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine | 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) |
|---|---|---|---|
| trisodium citrate | No data available | | |
| amines, C12-14 (even numbered)-alkyldimethyl, N-oxides | < 10 | Method not given | 25 |
| 1-propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-coco acyl derivs., hydroxides, inner salts | No data available | | |
| alkyl polyglucoside | < 0.0077 | Method not given | 20 |
| N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine | No data available | | |

**Method / remark**

**Relative density:** ≈ 1.09 (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.
**Oxidising properties:** Not oxidising.
**Corrosion to metals:** 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**
May be corrosive to metals.

**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

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) |
|---|---|---|---|---|---|---|
| trisodium citrate | $LD_{50}$ | 5400 | | OECD 401 (EU B.1) | | Not established |
| amines, C12-14 (even numbered)-alkyldimethyl, N-oxides | $LD_{50}$ | 1064 | Rat | OECD 401 (EU B.1) | | 9500 |
| 1-propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-coco acyl derivs., hydroxides, inner salts | $LD_{50}$ | 2335 | Rat | OECD 401 (EU B.1) | | 2335 |
| alkyl polyglucoside | $LD_{50}$ | > 5000 | Rat | OECD 401 (EU B.1) | | Not established |
| N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine | $LD_{50}$ | 261 | Rat | Method not given | | 261 |

Acute dermal toxicity

| Ingredient(s) | Endpoint | Value (mg/kg) | Species | Method | Exposure time (h) | ATE (mg/kg) |
|---|---|---|---|---|---|---|
| trisodium citrate | | No data available | | | | Not established |
| amines, C12-14 (even numbered)-alkyldimethyl, N-oxides | $LD_{50}$ | > - | Rat | OECD 402 (EU B.3) | | Not established |
| 1-propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-coco acyl derivs., hydroxides, inner salts | $LD_{50}$ | > 2000 | Rat | | | 78000 |
| alkyl polyglucoside | $LD_{50}$ | > 5000 | Rabbit | OECD 402 (EU B.3) | | Not established |
| N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine | $LD_{50}$ | > 2000 | Rat | OECD 402 (EU B.3) | | Not established |

Acute inhalative toxicity

| Ingredient(s) | Endpoint | Value (mg/l) | Species | Method | Exposure time (h) |
|---|---|---|---|---|---|
| trisodium citrate | | No data available | | | |
| amines, C12-14 (even numbered)-alkyldimethyl, N-oxides | | No data available | | | |
| 1-propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-coco acyl derivs., hydroxides, inner salts | | No data available | | | |
| alkyl polyglucoside | | No data available | | | |
| N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine | | 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) |
|---|---|---|---|---|
| trisodium citrate | Not established | Not established | Not established | Not established |
| amines, C12-14 (even numbered)-alkyldimethyl, N-oxides | Not established | Not established | Not established | Not established |
| 1-propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-coco acyl derivs., hydroxides, inner salts | Not established | Not established | Not established | Not established |
| alkyl polyglucoside | Not established | Not established | Not established | Not established |
| N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine | Not established | Not established | Not established | Not established |

**Irritation and corrosivity**

Skin irritation and corrosivity

| Ingredient(s) | Result | Species | Method | Exposure time |
|---|---|---|---|---|
| trisodium citrate | No data available | | | |
| amines, C12-14 (even numbered)-alkyldimethyl, N-oxides | Irritant | Rabbit | OECD 404 (EU B.4) | |
| 1-propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-coco acyl derivs., hydroxides, inner salts | Corrosive Mild irritant | Rabbit | OECD 404 (EU B.4) | |
| alkyl polyglucoside | Irritant | Rabbit | OECD 404 (EU B.4) | 4 hour(s) |
| N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine | Corrosive | Rabbit | OECD 404 (EU B.4) | 4 hour(s) |

Eye irritation and corrosivity

| Ingredient(s) | Result | Species | Method | Exposure time |
|---|---|---|---|---|
| trisodium citrate | No data available | | | |
| amines, C12-14 (even numbered)-alkyldimethyl, N-oxides | Severe damage | Rabbit | OECD 405 (EU B.5) | |
| 1-propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-coco acyl derivs., hydroxides, inner salts | Corrosive | Rabbit | OECD 405 (EU B.5) | |
| alkyl polyglucoside | Severe damage | Rabbit | OECD 405 (EU B.5) | |
| N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine | No data available | | | |

Respiratory tract irritation and corrosivity

| Ingredient(s) | Result | Species | Method | Exposure time |
|---|---|---|---|---|
| trisodium citrate | No data available | | | |
| amines, C12-14 (even numbered)-alkyldimethyl, N-oxides | No data available | | | |
| 1-propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-coco acyl derivs., hydroxides, inner salts | No data available | | | |
| alkyl polyglucoside | No data available | | | |
| N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine | No data available | | | |

## Sensitisation

Sensitisation by skin contact

| Ingredient(s) | Result | Species | Method | Exposure time (h) |
|---|---|---|---|---|
| trisodium citrate | No data available | | | |
| amines, C12-14 (even numbered)-alkyldimethyl, N-oxides | Not sensitising | Guinea pig | OECD 406 (EU B.6) / Buehler test | |
| 1-propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-coco acyl derivs., hydroxides, inner salts | Not sensitising | Guinea pig | OECD 406 (EU B.6) | |
| alkyl polyglucoside | Not sensitising | Guinea pig | OECD 406 (EU B.6) / GPMT | |
| N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine | Not sensitising | Guinea pig | OECD 406 (EU B.6) / Buehler test | |

Sensitisation by inhalation

| Ingredient(s) | Result | Species | Method | Exposure time |
|---|---|---|---|---|
| trisodium citrate | No data available | | | |
| amines, C12-14 (even numbered)-alkyldimethyl, N-oxides | No data available | | | |
| 1-propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-coco acyl derivs., hydroxides, inner salts | No data available | | | |
| alkyl polyglucoside | No data available | | | |
| N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine | 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) |
|---|---|---|---|---|
| trisodium citrate | No data available | | No data available | |
| amines, C12-14 (even numbered)-alkyldimethyl, N-oxides | No evidence for mutagenicity, negative test results | OECD 471 (EU B.12/13) | No data available | |
| 1-propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-coco acyl derivs., hydroxides, inner salts | No data available | | No data available | |
| alkyl polyglucoside | 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) |
| N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine | No evidence for mutagenicity, negative test results | OECD 471 (EU B.12/13) OECD 473 OECD 476 | No data available | |

Carcinogenicity

| Ingredient(s) | Effect |
|---|---|
| trisodium citrate | No data available |
| amines, C12-14 (even numbered)-alkyldimethyl, N-oxides | No evidence for carcinogenicity, negative test results |
| 1-propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-coco acyl | No data available |

| | |
|---|---|
| derivs., hydroxides, inner salts | |
| alkyl polyglucoside | No evidence for carcinogenicity, weight-of-evidence |
| N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine | 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 |
|---|---|---|---|---|---|---|---|
| trisodium citrate | | | No data available | | | | |
| amines, C12-14 (even numbered)-alkyldimethyl, N-oxides | NOAEL | Teratogenic effects | 25 | Rat | Non guideline test | | |
| 1-propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-coco acyl derivs., hydroxides, inner salts | | | No data available | | | | |
| alkyl polyglucoside | NOAEL | Developmental toxicity Maternal toxicity | 1000 | Rat | OECD 414 (EU B.31), oral OECD 421, oral | | No evidence for reproductive toxicity |
| N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine | | | No data available | | | | No evidence for reproductive toxicity |

**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 |
|---|---|---|---|---|---|---|
| trisodium citrate | | No data available | | | | |
| amines, C12-14 (even numbered)-alkyldimethyl, N-oxides | NOAEL | - | | OECD 422, oral | | |
| 1-propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-coco acyl derivs., hydroxides, inner salts | | No data available | | | | |
| alkyl polyglucoside | NOAEL | 100 | Rat | OECD 408 (EU B.26) | | |
| N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine | | 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 |
|---|---|---|---|---|---|---|
| trisodium citrate | | No data available | | | | |
| amines, C12-14 (even numbered)-alkyldimethyl, N-oxides | | No data available | | | | |
| 1-propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-coco acyl derivs., hydroxides, inner salts | | No data available | | | | |
| alkyl polyglucoside | | No data available | | | | |
| N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine | | 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 |
|---|---|---|---|---|---|---|
| trisodium citrate | | No data available | | | | |
| amines, C12-14 (even numbered)-alkyldimethyl, N-oxides | | No data available | | | | |
| 1-propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-coco acyl derivs., hydroxides, inner salts | | No data available | | | | |
| alkyl polyglucoside | | No data available | | | | |
| N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine | | 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 |
|---|---|---|---|---|---|---|---|---|
| trisodium citrate | | | No data available | | | | | |
| amines, C12-14 (even numbered)-alkyldimeth | | | No data available | | | | | |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| yl, N-oxides | | | | | | | | |
| 1-propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-coco acyl derivs., hydroxides, inner salts | | | No data available | | | | | |
| alkyl polyglucoside | | | No data available | | | | | |
| N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine | | | No data available | | | | | |

STOT-single exposure

| Ingredient(s) | Affected organ(s) |
|---|---|
| trisodium citrate | No data available |
| amines, C12-14 (even numbered)-alkyldimethyl, N-oxides | No data available |
| 1-propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-coco acyl derivs., hydroxides, inner salts | No data available |
| alkyl polyglucoside | No data available |
| N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine | Not applicable |

STOT-repeated exposure

| Ingredient(s) | Affected organ(s) |
|---|---|
| trisodium citrate | No data available |
| amines, C12-14 (even numbered)-alkyldimethyl, N-oxides | No data available |
| 1-propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-coco acyl derivs., hydroxides, inner salts | No data available |
| alkyl polyglucoside | No data available |
| N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine | Kidneys |

**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) |
|---|---|---|---|---|---|
| trisodium citrate | $LC_{50}$ | 10 | | Weight of evidence | |
| amines, C12-14 (even numbered)-alkyldimethyl, N-oxides | $LC_{50}$ | 2.67-3.46 | *Pimephales promelas* | Similar to OECD 203 | 96 |
| 1-propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-coco acyl derivs., hydroxides, inner salts | $LC_{50}$ | 1.11 | *Fish* | OECD 203, static | 96 |
| alkyl polyglucoside | $LC_{50}$ | 1 - 10 | *Fish* | ISO 7346 | |
| N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine | $LC_{50}$ | 0.1 | *Fish* | OECD 203 (EU C.1) | 96 |

Aquatic short-term toxicity - crustacea

| Ingredient(s) | Endpoint | Value (mg/l) | Species | Method | Exposure time (h) |
|---|---|---|---|---|---|
| trisodium citrate | $EC_{50}$ | > 50 | | Weight of evidence | |
| amines, C12-14 (even numbered)-alkyldimethyl, N-oxides | $EC_{50}$ | 3.1 | *Daphnia magna Straus* | OECD 202, static | 48 |
| 1-propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-coco acyl derivs., hydroxides, inner salts | $EC_{50}$ | 1.9 | *Daphnia magna Straus* | OECD 202 (EU C.2) | 48 |
| alkyl polyglucoside | $EC_{50}$ | 7 | *Daphnia* | Method not given | 48 |

| | | | | | |
|---|---|---|---|---|---|
| | | | *magna Straus* | | |
| N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine | $EC_{50}$ | 0.073 | *Daphnia magna Straus* | OECD 202 (EU C.2) | 48 |

Aquatic short-term toxicity - algae

| Ingredient(s) | Endpoint | Value (mg/l) | Species | Method | Exposure time (h) |
|---|---|---|---|---|---|
| trisodium citrate | $EC_{50}$ | 425 | | Weight of evidence | |
| amines, C12-14 (even numbered)-alkyldimethyl, N-oxides | $E_r C_{50}$ | 0.143 | *Pseudokirchneriella subcapitata* | Method not given | 72 |
| 1-propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-coco acyl derivs., hydroxides, inner salts | $EC_{50}$ | 2.4 | *Desmodesmus subspicatus* | | 72 |
| alkyl polyglucoside | $EC_{50}$ | 10 - 100 | *Not specified* | 88/302/EEC, Part C, static | |
| N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine | $E_r C_{50}$ | 0.054 | *Pseudokirchneriella subcapitata* | OECD 201 (EU C.3) | 96 |

Aquatic short-term toxicity - marine species

| Ingredient(s) | Endpoint | Value (mg/l) | Species | Method | Exposure time (days) |
|---|---|---|---|---|---|
| trisodium citrate | | No data available | | | |
| amines, C12-14 (even numbered)-alkyldimethyl, N-oxides | | No data available | | | |
| 1-propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-coco acyl derivs., hydroxides, inner salts | | No data available | | | |
| alkyl polyglucoside | | No data available | | | |
| N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine | | No data available | | | |

Impact on sewage plants - toxicity to bacteria

| Ingredient(s) | Endpoint | Value (mg/l) | Inoculum | Method | Exposure time |
|---|---|---|---|---|---|
| trisodium citrate | | No data available | | | |
| amines, C12-14 (even numbered)-alkyldimethyl, N-oxides | $EC_{10}$ | > - | *Bacteria* | Non guideline test | - hour(s) |
| 1-propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-coco acyl derivs., hydroxides, inner salts | | No data available | | | |
| alkyl polyglucoside | $EC_0$ | > 100 | *Bacteria* | OECD 209 | |
| N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine | $EC_{50}$ | 18 | *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 |
|---|---|---|---|---|---|---|
| trisodium citrate | | No data available | | | | |
| amines, C12-14 (even numbered)-alkyldimethyl, N-oxides | NOEC | 0.42 | *Pimephales promelas* | Method not given | 302 day(s) | |
| 1-propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-coco acyl derivs., hydroxides, inner salts | | No data available | | | | |
| alkyl polyglucoside | NOEC | 1 - 10 | *Not specified* | OECD 204 | 14 day(s) | |
| N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine | | No data available | | | | |

Aquatic long-term toxicity - crustacea

| Ingredient(s) | Endpoint | Value (mg/l) | Species | Method | Exposure time | Effects observed |
|---|---|---|---|---|---|---|
| trisodium citrate | | No data available | | | | |
| amines, C12-14 (even numbered)-alkyldimethyl, N-oxides | NOEC | 0.7 | *Daphnia magna* | OECD 211, flow-through | 21 day(s) | |
| 1-propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-coco acyl derivs., hydroxides, inner salts | | No data available | | | | |
| alkyl polyglucoside | NOEC | 1 - 10 | *Daphnia sp.* | OECD 202 | | |
| N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine | NOEC | 0.024 | *Daphnia magna* | OECD 211 | 21 day(s) | |

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

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

| | | (mg/kg dw sediment) | | | time (days) | |
|---|---|---|---|---|---|---|
| trisodium citrate | | No data available | | | | |
| amines, C12-14 (even numbered)-alkyldimethyl, N-oxides | | No data available | | | | |
| 1-propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-coco acyl derivs., hydroxides, inner salts | | No data available | | | | |
| alkyl polyglucoside | | No data available | | | | |
| N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine | | 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 |
|---|---|---|---|---|---|---|
| alkyl polyglucoside | | No data available | | | | |
| N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine | $LD_{50}$ | > 1000 | *Eisenia fetida* | OECD 207 | 14 | |

Terrestrial toxicity - plants, if available:

| Ingredient(s) | Endpoint | Value (mg/kg dw soil) | Species | Method | Exposure time (days) | Effects observed |
|---|---|---|---|---|---|---|
| alkyl polyglucoside | | No data available | | | | |

Terrestrial toxicity - birds, if available:

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

Terrestrial toxicity - beneficial insects, if available:

| Ingredient(s) | Endpoint | Value (mg/kg dw soil) | Species | Method | Exposure time (days) | Effects observed |
|---|---|---|---|---|---|---|
| alkyl polyglucoside | | No data available | | | | |

Terrestrial toxicity - soil bacteria, if available:

| Ingredient(s) | Endpoint | Value (mg/kg dw soil) | Species | Method | Exposure time (days) | Effects observed |
|---|---|---|---|---|---|---|
| alkyl polyglucoside | | No data available | | | | |
| N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine | NOEC | 1000 | | | 28 | |

**12.2 Persistence and degradability**

**Abiotic degradation**

Abiotic degradation - photodegradation in air, if available:

| Ingredient(s) | Half-life time | Method | Evaluation | Remark |
|---|---|---|---|---|
| alkyl polyglucoside | No data available | | | |

Abiotic degradation - hydrolysis, if available:

| Ingredient(s) | Half-life time in fresh water | Method | Evaluation | Remark |
|---|---|---|---|---|
| alkyl polyglucoside | No data available | | | |

Abiotic degradation - other processes, if available:

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

**Biodegradation**

Ready biodegradability - aerobic conditions

| Ingredient(s) | Inoculum | Analytical method | $DT_{50}$ | Method | Evaluation |
|---|---|---|---|---|---|
| trisodium citrate | | DOC reduction | 97 % in 28 day(s) | OECD 301E | Readily biodegradable |
| amines, C12-14 (even numbered)-alkyldimethyl, | Activated sludge, | $CO_2$ production | 90 % in 28 day(s) | OECD 301B | Readily biodegradable |

| | | | | | |
|---|---|---|---|---|---|
| N-oxides | aerobe | | | | |
| 1-propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-coco acyl derivs., hydroxides, inner salts | | | | OECD 301B | Readily biodegradable |
| alkyl polyglucoside | Activated sludge, aerobe | BOD removal | 88% in 28 day(s) | OECD 301D | Readily biodegradable |
| N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine | | Oxygen depletion | 79 % in 28 day(s) | OECD 301D | Readily biodegradable |

Ready biodegradability - anaerobic and marine conditions, if available:

| Ingredient(s) | Medium & Type | Analytical method | $DT_{50}$ | Method | Evaluation |
|---|---|---|---|---|---|
| alkyl polyglucoside | | | | | No data available |

Degradation in relevant environmental compartments, if available:

| Ingredient(s) | Medium & Type | Analytical method | $DT_{50}$ | Method | Evaluation |
|---|---|---|---|---|---|
| alkyl polyglucoside | | | | | No data available |

### 12.3 Bioaccumulative potential

Partition coefficient n-octanol/water (log Kow)

| Ingredient(s) | Value | Method | Evaluation | Remark |
|---|---|---|---|---|
| trisodium citrate | < 0 | | No bioaccumulation expected | |
| amines, C12-14 (even numbered)-alkyldimethyl, N-oxides | < - | Method not given | No bioaccumulation expected | |
| 1-propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-coco acyl derivs., hydroxides, inner salts | No data available | | | |
| alkyl polyglucoside | ≤ 0.07 | Method not given | No bioaccumulation expected | |
| N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine | -0.66 | | No bioaccumulation expected | |

Bioconcentration factor (BCF)

| Ingredient(s) | Value | Species | Method | Evaluation | Remark |
|---|---|---|---|---|---|
| trisodium citrate | 3.2 | | | No bioaccumulation expected | |
| amines, C12-14 (even numbered)-alkyldimethyl, N-oxides | No data available | | | | |
| 1-propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-coco acyl derivs., hydroxides, inner salts | No data available | | | | |
| alkyl polyglucoside | No data available | | | | |
| N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine | No data available | | | | |

### 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 |
|---|---|---|---|---|---|
| trisodium citrate | No data available | | | | |
| amines, C12-14 (even numbered)-alkyldimethyl, N-oxides | No data available | | | | Low mobillity in soil |
| 1-propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-coco acyl derivs., hydroxides, inner salts | No data available | | | | |
| alkyl polyglucoside | 1.7 | | Method not given | | |
| N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine | No data available | | | | |

### 12.5 Results of PBT and vPvB assessment

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

### 12.6 Endocrine disrupting properties

Endocrine disrupting properties - Environmental effects, if available:

### 12.7 Other adverse effects

No other adverse effects known.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

| | |
|---|---|
| **Waste from residues / unused products:** | The concentrated contents or contaminated packaging should be disposed of by a certified handler or according to the site permit. Release of waste to sewers is discouraged. The cleaned packaging material is suitable for energy recovery or recycling in line with local legislation. |
| **European Waste Catalogue:** | 20 01 29* - detergents containing dangerous substances. |
| **Empty packaging Recommendation:** | Dispose of observing national or local regulations. |
| **Suitable cleaning agents:** | Water, if necessary with cleaning agent. |

## SECTION 14: Transport information


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

**14.1 UN number or ID number:** 1760

**14.2 UN proper shipping name:**

Corrosive liquid, n.o.s. ( trisodium citrate )

**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 Maritime transport in bulk according to IMO instruments:** The product is not transported in bulk tankers.

**Other relevant information:**

**ADR**

**Classification code:** C9

**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)
- Biocidal Products Regulations 2001 (SI 2001/880)
- Delegated Regulation (EU) 2017/2100 and Regulation (EU) 2018/605 (UK amended)
- Agreement concerning the International Carriage of Dangerous Goods by Road (ADR)
- International Maritime Dangerous Goods (IMDG) Code

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

**Ingredients according to Detergents Regulation**

| | |
|---|---|
| non-ionic surfactants | 5 - 15 % |
| amphoteric surfactants | < 5 % |

Laurylamine Dipropylenediamine, perfumes , Citral, Limonene

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:** MS1002781 **Version:** 02.2 **Revision:** 2023-06-20

**Reason for revision:**
This data sheet contains changes from the previous version in section(s):, 4, 16, Overall design adjusted in accordance with Amendment 2020/878, Annex II of Regulation (EC) No 1907/2006

**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
• H290 - May be corrosive to metals.
• H301 - Toxic if swallowed.
• H302 - Harmful if swallowed.
• H315 - Causes skin irritation.
• H318 - Causes serious eye damage.
• H373 - May cause damage to organs through prolonged or repeated exposure.
• 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.

**End of Safety Data Sheet**