# Safety Data Sheet

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

## Acigel VG7

**Revision:** 2024-08-07 **Version:** 10.0

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

### 1.1 Product identifier

**Trade name:** Acigel VG7

UFI: FMX3-J06W-Y00K-9VKW

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

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

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

### 1.3 Details of the supplier of the safety data sheet

Diversey Europe Operations BV, De Corridor 4, 3621ZB Breukelen [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@solenis.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 corrosion, Category 1B (H314)
Serious eye damage, Category 1 (H318)
Chronic aquatic toxicity, Category 3 (H412)
Corrosive to metals, Category 1 (H290)

### 2.2 Label elements

**Signal word:** Danger.

Contains phosphoric acid (Phosphoric Acid), ethanol, 2,2'-iminobis-, N-tallow alkyl derivs., N-oxides (Dihydroxyethyl Tallowamine Oxide), N,N-dimethyltetradecylamine N-oxide (Myristamine Oxide), nitric acid (Nitric Acid), alkyl alcohol ethoxylate (C9-11 Pareth-5-10), Alcohols, C10-16, ethoxylated (7-<15 EO) (C12-15 Pareth-7)

**Hazard statements:**
H290 - May be corrosive to metals.
H314 - Causes severe skin burns and eye damage.
H412 - Harmful to aquatic life with long lasting effects.

**Precautionary statements:**
P280 - Wear protective gloves, protective clothing and eye or face protection.
P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

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

**2.3 Other hazards**
No other hazards known.

Regulated explosives precursor - Control of Poisons and Explosives Precursors Regulations 2015

## SECTION 3: Composition/information on ingredients

**3.2 Mixtures**

| Ingredient(s) | EC number | CAS number | REACH number | Classification | Notes | Weight percent |
|---|---|---|---|---|---|---|
| phosphoric acid | 231-633-2 | 7664-38-2 | 01-2119485924-24 | Skin corrosion, Category 1B (H314)<br>Acute toxicity - Oral, Category 4 (H302)<br>Serious eye damage, Category 1 (H318)<br>Corrosive to metals, Category 1 (H290) | | 30-50 |
| ethanol, 2,2'-iminobis-, N-tallow alkyl derivs., N-oxides | 263-179-6 | 61791-46-6 | 01-2120770736-44 | Serious eye damage, Category 1 (H318)<br>Acute aquatic toxicity, Category 1 M=1 (H400)<br>Chronic aquatic toxicity, Category 2 (H411) | | 3-10 |
| propane-1,2-diol | 200-338-0 | 57-55-6 | 01-2119456809-23 | Not classified as hazardous | | 3-10 |
| 2-(2-butoxyethoxy)ethanol | 203-961-6 | 112-34-5 | 01-2119475104-44 | Eye irritation, Category 2 (H319) | | 1-3 |
| sodium xylene sulphonate | 701-037-1 | - | 01-2119513350-56 | Eye irritation, Category 2 (H319) | | 1-3 |
| N,N-dimethyltetradecylamine N-oxide | 222-059-3 | 3332-27-2 | 01-2119949262-37 | Acute toxicity - Oral, Category 4 (H302)<br>Skin irritation, Category 2 (H315)<br>Serious eye damage, Category 1 (H318)<br>Acute aquatic toxicity, Category 1 M=1 (H400)<br>Chronic aquatic toxicity, Category 2 (H411) | | 1-3 |
| nitric acid | 231-714-2 | 7697-37-2 | 01-2119487297-23 | Oxidising liquids, Category 3 (H272)<br>Acute toxicity - Inhalation, Category 3 (H331)<br>Skin corrosion, Category 1A (H314)<br>EUH071<br>Corrosive to metals, Category 1 (H290) | | 1-3 |
| alkyl alcohol ethoxylate | [4] | 68439-46-3 | [4] | Acute toxicity - Oral, Category 4 (H302)<br>Serious eye damage, Category 1 (H318) | | 1-3 |
| Alcohols, C10-16, ethoxylated (7-<15 EO) | [4] | 68002-97-1 | [4] | Acute toxicity - Oral, Category 4 (H302)<br>Serious eye damage, Category 1 (H318)<br>Chronic aquatic toxicity, Category 3 (H412) | | 1-3 |

**Specific concentration limits**
phosphoric acid:
• Serious eye damage, Category 1 (H318) >= 25% > Eye irritation, Category 2 (H319) >= 10%
• Skin corrosion, Category 1B (H314) >= 25% > Skin irritation, Category 2 (H315) >= 10%
nitric acid :
• Skin corrosion, Category 1A (H314) >= 20% > Skin corrosion, Category 1B (H314) >= 5% > Skin irritation, Category 2 (H315) >= 1%

Workplace exposure limit(s), if available, are listed in subsection 8.1.
ATE, if available, are listed in section 11.
[4] Exempted: polymer. See Article 2(9) of Regulation (EC) No 1907/2006.
For the full text of the H and EUH phrases mentioned in this Section, see Section 16..

## SECTION 4: First aid measures

**4.1 Description of first aid measures**

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

**Inhalation:** Remove person to fresh air and keep comfortable for breathing. Get medical attention or advice if you feel unwell.

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

**Eye contact:** Hold eyelids apart and flush eyes with plenty of lukewarm water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTRE, doctor or physician.

**Ingestion:** Rinse mouth. Immediately drink 1 glass of water. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Keep at rest. Immediately call a POISON CENTRE, doctor or physician.

**Self-protection of first aider:** Consider personal protective equipment as indicated in subsection 8.2.

**4.2 Most important symptoms and effects, both acute and delayed**

**Inhalation:** No known effects or symptoms in normal use.
**Skin contact:** Causes severe burns.
**Eye contact:** Causes severe or permanent damage.
**Ingestion:** Ingestion will lead to a strong caustic effect on mouth and throat and to the danger of perforation of oesophagus and stomach.

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

## SECTION 5: Firefighting measures

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

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

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

## SECTION 6: Accidental release measures

**6.1 Personal precautions, protective equipment and emergency procedures**
Wear suitable protective clothing. Wear eye/face protection. Wear suitable gloves.

**6.2 Environmental precautions**
Dilute with plenty of water. Do not allow to enter drainage system, surface or ground water. 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. Use neutralising agent. 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 immediately all contaminated clothing. Wash contaminated clothing before reuse. Avoid contact with skin and eyes. Use only with adequate ventilation. See chapter 8.2, Exposure controls / Personal protection.

**7.2 Conditions for safe storage, including any incompatibilities**
Store in accordance with local and national regulations. Store in a closed container. Keep only in original packaging. Keep cool. Keep away from heat and direct sunlight.
For conditions to avoid see subsection 10.4. For incompatible materials see subsection 10.5.

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

## SECTION 8: Exposure controls/personal protection

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

Air limit values, if available:

| Ingredient(s) | UK - Long term value(s) | UK - Short term value(s) |
|---|---|---|
| phosphoric acid | 1 mg/m³ | 2 mg/m³ |
| propane-1,2-diol | 150 ppm total vapour and particulates<br>474 mg/m³ total vapour and particulates | 450 ppm total vapour and particulates<br>1422 mg/m³ total vapour and particulates |

| | | |
|---|---|---|
| | 10 mg/m³ particulates | 30 mg/m³ particulate |
| 2-(2-butoxyethoxy)ethanol | 10 ppm<br>67.5 mg/m³ | 15 ppm<br>101.2 mg/m³ |
| nitric acid | | 1 ppm<br>2.6 mg/m³ |

Biological limit values, if available:

**Recommended monitoring procedures, if available:**

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

**DNEL/DMEL and PNEC values**

**Human exposure**

DNEL/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 |
|---|---|---|---|---|
| phosphoric acid | - | - | - | 0.1 |
| ethanol, 2,2'-iminobis-, N-tallow alkyl derivs., N-oxides | - | - | - | 0.15 |
| propane-1,2-diol | - | - | - | - |
| 2-(2-butoxyethoxy)ethanol | - | - | - | 1.25 |
| sodium xylene sulphonate | - | - | - | 3.8 |
| N,N-dimethyltetradecylamine N-oxide | - | - | - | 0.44 |
| nitric acid | - | - | - | - |
| alkyl alcohol ethoxylate | - | - | - | - |
| Alcohols, C10-16, ethoxylated (7-<15 EO) | - | - | - | - |

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) |
|---|---|---|---|---|
| phosphoric acid | No data available | - | No data available | - |
| ethanol, 2,2'-iminobis-, N-tallow alkyl derivs., N-oxides | - | - | - | 0.3 |
| propane-1,2-diol | - | - | - | - |
| 2-(2-butoxyethoxy)ethanol | No data available | - | No data available | 20 |
| sodium xylene sulphonate | - | - | 0.096 mg/cm² skin | 136.25 |
| N,N-dimethyltetradecylamine N-oxide | - | - | - | 11 |
| nitric acid | - | - | - | - |
| alkyl alcohol ethoxylate | - | - | - | - |
| Alcohols, C10-16, ethoxylated (7-<15 EO) | - | - | No data available | - |

DNEL/DMEL dermal exposure - Consumer

| Ingredient(s) | Short term - Local effects | Short term - Systemic effects (mg/kg bw) | Long term - Local effects | Long term - Systemic effects (mg/kg bw) |
|---|---|---|---|---|
| phosphoric acid | No data available | - | No data available | - |
| ethanol, 2,2'-iminobis-, N-tallow alkyl derivs., N-oxides | - | - | - | 0.15 |
| propane-1,2-diol | - | - | - | - |
| 2-(2-butoxyethoxy)ethanol | No data available | - | No data available | 10 |
| sodium xylene sulphonate | - | - | 0.048 mg/cm² skin | 68.1 |
| N,N-dimethyltetradecylamine N-oxide | - | - | - | 5.5 |
| nitric acid | - | - | - | - |
| alkyl alcohol ethoxylate | - | - | - | - |
| Alcohols, C10-16, ethoxylated (7-<15 EO) | - | - | No data available | - |

DNEL/DMEL inhalatory exposure - Worker (mg/m³)

| Ingredient(s) | Short term - Local effects | Short term - Systemic effects | Long term - Local effects | Long term - Systemic effects |
|---|---|---|---|---|
| phosphoric acid | - | - | 2.92 | 1 |
| ethanol, 2,2'-iminobis-, N-tallow alkyl derivs., N-oxides | - | - | - | 1.48 |
| propane-1,2-diol | - | - | 10 | 168 |
| 2-(2-butoxyethoxy)ethanol | 101.2 | - | 67.5 | 67.5 |
| sodium xylene sulphonate | - | - | - | 26.9 |
| N,N-dimethyltetradecylamine N-oxide | - | - | - | 6.2 |
| nitric acid | - | - | 2.6 | - |
| alkyl alcohol ethoxylate | - | - | - | - |
| Alcohols, C10-16, ethoxylated (7-<15 EO) | - | - | - | - |

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 |
|---|---|---|---|---|
| phosphoric acid | - | - | 0.73 | - |

| | | | | |
|---|---|---|---|---|
| ethanol, 2,2'-iminobis-, N-tallow alkyl derivs., N-oxides | - | - | - | 0.22 |
| propane-1,2-diol | - | - | 10 | 50 |
| 2-(2-butoxyethoxy)ethanol | 50.6 | - | 34 | 34 |
| sodium xylene sulphonate | - | - | - | 6.6 |
| N,N-dimethyltetradecylamine N-oxide | - | - | - | 1.53 |
| nitric acid | - | - | 1.3 | - |
| alkyl alcohol ethoxylate | - | - | - | - |
| Alcohols, C10-16, ethoxylated (7-<15 EO) | - | - | - | - |

**Environmental exposure**

Environmental exposure - PNEC

| Ingredient(s) | Surface water, fresh (mg/l) | Surface water, marine (mg/l) | Intermittent (mg/l) | Sewage treatment plant (mg/l) |
|---|---|---|---|---|
| phosphoric acid | - | - | - | - |
| ethanol, 2,2'-iminobis-, N-tallow alkyl derivs., N-oxides | 0.000356 | 0.000036 | 0.00047 | 3.43 |
| propane-1,2-diol | 260 | 26 | 183 | 20000 |
| 2-(2-butoxyethoxy)ethanol | 1 | 0.1 | 3.9 | 200 |
| sodium xylene sulphonate | 0.23 | 0.023 | 2.3 | 100 |
| N,N-dimethyltetradecylamine N-oxide | 0.0335 | 0.00335 | 0.0335 | 24 |
| nitric acid | - | - | - | - |
| alkyl alcohol ethoxylate | - | - | - | - |
| Alcohols, C10-16, ethoxylated (7-<15 EO) | - | - | - | - |

Environmental exposure - PNEC, continued

| Ingredient(s) | Sediment, freshwater (mg/kg) | Sediment, marine (mg/kg) | Soil (mg/kg) | Air (mg/m³) |
|---|---|---|---|---|
| phosphoric acid | - | - | - | - |
| ethanol, 2,2'-iminobis-, N-tallow alkyl derivs., N-oxides | 1.7 | 0.17 | 0.81 | - |
| propane-1,2-diol | 572 | 57.2 | 50 | - |
| 2-(2-butoxyethoxy)ethanol | 4 | 0.4 | 0.4 | - |
| sodium xylene sulphonate | 0.862 | 0.0862 | 0.037 | - |
| N,N-dimethyltetradecylamine N-oxide | 5.24 | 0.524 | 1.02 | - |
| nitric acid | - | - | - | - |
| alkyl alcohol ethoxylate | - | - | - | - |
| Alcohols, C10-16, ethoxylated (7-<15 EO) | - | - | - | - |

**8.2 Exposure controls**

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

*Recommended safety measures for handling the undiluted product:*

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

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

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

| | SWED - Sector-specific worker exposure description | LCS | PROC | Duration (min) | ERC |
|---|---|---|---|---|---|
| Automatic transfer and dilution | AISE_SWED_IS_8b_1 | IS | PROC 8b | 60 | ERC4 |

**Personal protective equipment**

**Eye / face protection:** Safety glasses or goggles (EN 16321 / EN 166). The use of a full-face shield or other full-face protection is strongly recommended when handling open containers or if splashes may occur.

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

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

**Respiratory protection:** If exposure to liquid particles or splashes cannot be avoided use: half mask (EN 140) with particle

filter P2 (EN 143) or full-face mask (EN 136) with particle filter P1 (EN 143) Consider specific local use conditions. In consultation with the supplier of respiratory protection equipment a different type providing similar protection may be chosen. Specific applications tools may be available to limit exposure. Please refer to the product information sheet for the possibilities. Apply technical measures to comply with the occupational exposure limits, if available.

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

*Recommended safety measures for handling the diluted product:*

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

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

**Appropriate organisational controls:** Users are advised to consider national Occupational Exposure Limits or other equivalent values, if available.

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

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

**Personal protective equipment**

**Eye / face protection:** Safety glasses or goggles (EN 16321 / EN 166) are always recommended for foam applications.

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

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

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

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

## SECTION 9: Physical and chemical properties

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

| | Method / remark |
|---|---|
| **Physical state:** Liquid | |
| **Colour:** Clear , from Brown to 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):** > 100 | |

Substance data, boiling point

| Ingredient(s) | Value (°C) | Method | Atmospheric pressure (hPa) |
|---|---|---|---|
| phosphoric acid | 158 | Method not given | 1013 |
| ethanol, 2,2'-iminobis-, N-tallow alkyl derivs., N-oxides | No data available | | |
| propane-1,2-diol | 185-190 | Method not given | 1013 |
| 2-(2-butoxyethoxy)ethanol | 225-233 | Method not given | 1013 |
| sodium xylene sulphonate | > 100 | Method not given | |
| N,N-dimethyltetradecylamine N-oxide | 100 | Method not given | |
| nitric acid | 116 | Method not given | |
| alkyl alcohol ethoxylate | > 232.2 | Method not given | |
| Alcohols, C10-16, ethoxylated (7-<15 EO) | No data available | | |

| | Method / remark |
|---|---|
| **Flammability (solid, gas):** Not applicable to liquids | |
| **Flammability (liquid):** Not flammable. | |
| **Flash point (°C):** > 100 °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 — See substance data

Substance data, flammability or explosive limits, if available:

| Ingredient(s) | Lower limit (% vol) | Upper limit (% vol) |
|---|---|---|
| propane-1,2-diol | 2.6 | 12.6 |
| 2-(2-butoxyethoxy)ethanol | 0.8 | 5.9 |

| | Method / remark |
|---|---|
| **Autoignition temperature:** Not determined | |
| **Decomposition temperature:** Not applicable. | |
| **pH:** =< 2 (neat) | ISO 4316 |
| **Dilution pH:** < 2 (10 %) | ISO 4316 |
| **Kinematic viscosity:** Not determined | DM-006 Viscosity - Standard |
| **Solubility in / Miscibility with water:** Fully miscible | |

Substance data, solubility in water

| Ingredient(s) | Value (g/l) | Method | Temperature (°C) |
|---|---|---|---|
| phosphoric acid | Soluble | | |
| ethanol, 2,2'-iminobis-, N-tallow alkyl derivs., N-oxides | No data available | | |
| propane-1,2-diol | Soluble | Method not given | |
| 2-(2-butoxyethoxy)ethanol | 955 Soluble | Method not given | 20 |
| sodium xylene sulphonate | 664 | Method not given | |
| N,N-dimethyltetradecylamine N-oxide | Soluble | | |
| nitric acid | > 500 | Method not given | |
| alkyl alcohol ethoxylate | 100 Soluble | Method not given | |
| Alcohols, C10-16, ethoxylated (7-<15 EO) | 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) |
|---|---|---|---|
| phosphoric acid | 4 | Method not given | 20 |
| ethanol, 2,2'-iminobis-, N-tallow alkyl derivs., N-oxides | No data available | | |
| propane-1,2-diol | 18.6 | Method not given | 20 |
| 2-(2-butoxyethoxy)ethanol | 2.7 | Method not given | 20 |
| sodium xylene sulphonate | Not applicable | | |
| N,N-dimethyltetradecylamine N-oxide | 230 | Method not given | 25 |
| nitric acid | 770 | Method not given | 20 |
| alkyl alcohol ethoxylate | < 10 | Method not given | 37.8 |
| Alcohols, C10-16, ethoxylated (7-<15 EO) | < 0.15 | | 20 |

| | Method / remark |
|---|---|
| **Relative density:** ≈ 1.20 (20 °C) | OECD 109 (EU A.3) |
| **Relative vapour density:** No data available. | Not relevant to classification of this product |
| **Particle characteristics:** No data available. | Not applicable to liquids. |

**9.2 Other information**

**9.2.1 Information with regard to physical hazard classes**

**Explosive properties:** Not explosive. Vapours may form explosive mixtures with air.

**Oxidising properties:** Not oxidising. — Not oxidising, based on substance properties

**Corrosion to metals:** Corrosive

**9.2.2 Other safety characteristics**

**Acid reserve:** ≈ -9.3 (g NaOH / 100g; pH=4)

## SECTION 10: Stability and reactivity

**10.1 Reactivity**

No reactivity hazards known under normal storage and use conditions.

**10.2 Chemical stability**

Stable under normal storage and use conditions.

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

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

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

**10.6 Hazardous decomposition products**
Nitrogen oxides (NOx).

## 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
ATE - Inhalatory, vapours (mg/l): >20

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) |
|---|---|---|---|---|---|---|
| phosphoric acid | $LD_{50}$ | > 300-5000 | Rat | OECD 423 (EU B.1 tris) | | 2600 |
| ethanol, 2,2'-iminobis-, N-tallow alkyl derivs., N-oxides | $LD_{50}$ | 2394 | Rat | Read across | | Not established |
| propane-1,2-diol | $LD_{50}$ | > 10000 | Rat | Method not given | | Not established |
| 2-(2-butoxyethoxy)ethanol | $LD_{50}$ | 2410 | Rat | Method not given | | Not established |
| sodium xylene sulphonate | $LD_{50}$ | > 7200 | Rat | OECD 401 (EU B.1) | | Not established |
| N,N-dimethyltetradecylamine N-oxide | $LD_{50}$ | > 1495 | Rat | OECD 401 (EU B.1) | | Not established |
| nitric acid | | No data available | | | | Not established |
| alkyl alcohol ethoxylate | $LD_{50}$ | 1400 | Rat | Weight of evidence | | 1400 |
| Alcohols, C10-16, ethoxylated (7-<15 EO) | $LD_{50}$ | 300-2000 | Rat | Weight of evidence | | 1000 |

Acute dermal toxicity

| Ingredient(s) | Endpoint | Value (mg/kg) | Species | Method | Exposure time (h) | ATE Dermal (mg/kg) |
|---|---|---|---|---|---|---|
| phosphoric acid | $LD_{50}$ | 2740 | Rabbit | Method not given | | Not established |
| ethanol, 2,2'-iminobis-, N-tallow alkyl derivs., N-oxides | $LD_{50}$ | > 2000 | Rat | Read across | | Not established |
| propane-1,2-diol | $LD_{50}$ | > 2000 | Rabbit | Method not given | | Not established |
| 2-(2-butoxyethoxy)ethanol | $LD_{50}$ | 2764 | Rabbit | Method not given | | Not established |
| sodium xylene sulphonate | $LD_{50}$ | > 2000 | Rabbit | OECD 402 (EU B.3) | | Not established |
| N,N-dimethyltetradecylamine N-oxide | | No data available | | | | Not established |
| nitric acid | | No data available | | | | Not established |
| alkyl alcohol ethoxylate | $LD_{50}$ | 2000 - 5000 | Rat | Weight of evidence | | Not established |
| Alcohols, C10-16, ethoxylated (7-<15 EO) | $LD_{50}$ | > 2000 | | Method not given | | Not established |

Acute inhalative toxicity

| Ingredient(s) | Endpoint | Value (mg/l) | Species | Method | Exposure time (h) |
|---|---|---|---|---|---|
| phosphoric acid | $LC_{50}$ | 850 | Rat | Method not given | 2 |
| ethanol, 2,2'-iminobis-, N-tallow alkyl derivs., N-oxides | | No data available | | | |
| propane-1,2-diol | $LC_{50}$ | > 317 (mist) No mortality observed | Rabbit | Non guideline test | |
| 2-(2-butoxyethoxy)ethanol | | No data available | | | |
| sodium xylene sulphonate | $LC_{0}$ | > 6.41 (mist) No mortality observed | Rat | OECD 403 (EU B.2) | 4 |

| | | | | | |
|---|---|---|---|---|---|
| N,N-dimethyltetradecylamine N-oxide | | No data available | | | |
| nitric acid | $LC_{50}$ | > 2.65 (vapour) | Rat | OECD 403 (EU B.2) | |
| alkyl alcohol ethoxylate | | No data available | | | |
| Alcohols, C10-16, ethoxylated (7-<15 EO) | | 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) |
|---|---|---|---|---|
| phosphoric acid | Not established | Not established | Not established | Not established |
| ethanol, 2,2'-iminobis-, N-tallow alkyl derivs., N-oxides | Not established | Not established | Not established | Not established |
| propane-1,2-diol | Not established | Not established | Not established | Not established |
| 2-(2-butoxyethoxy)ethanol | Not established | Not established | Not established | Not established |
| sodium xylene sulphonate | Not established | Not established | Not established | Not established |
| N,N-dimethyltetradecylamine N-oxide | Not established | Not established | Not established | Not established |
| nitric acid | Not established | Not established | 2.65 | Not established |
| alkyl alcohol ethoxylate | Not established | Not established | Not established | Not established |
| Alcohols, C10-16, ethoxylated (7-<15 EO) | Not established | Not established | Not established | Not established |

### Irritation and corrosivity

Skin irritation and corrosivity

| Ingredient(s) | Result | Species | Method | Exposure time |
|---|---|---|---|---|
| phosphoric acid | Corrosive | Rabbit | OECD 404 (EU B.4) | |
| ethanol, 2,2'-iminobis-, N-tallow alkyl derivs., N-oxides | Not irritant | | OECD 431 (EU B.40 bis) | |
| propane-1,2-diol | Not irritant | Rabbit | OECD 404 (EU B.4) | |
| 2-(2-butoxyethoxy)ethanol | Not irritant | Rabbit | Method not given | |
| sodium xylene sulphonate | Mild irritant | Rabbit | OECD 404 (EU B.4) | |
| N,N-dimethyltetradecylamine N-oxide | Irritant | Rabbit | OECD 404 (EU B.4) | |
| nitric acid | Corrosive | Rabbit | Method not given | |
| alkyl alcohol ethoxylate | Not irritant | | Weight of evidence | |
| Alcohols, C10-16, ethoxylated (7-<15 EO) | Not irritant | Rabbit | Method not given | |

Eye irritation and corrosivity

| Ingredient(s) | Result | Species | Method | Exposure time |
|---|---|---|---|---|
| phosphoric acid | Severe damage | Rabbit | Method not given | |
| ethanol, 2,2'-iminobis-, N-tallow alkyl derivs., N-oxides | Severe damage | Rabbit | OECD 405 (EU B.5) | |
| propane-1,2-diol | Not corrosive or irritant | Rabbit | OECD 405 (EU B.5) | |
| 2-(2-butoxyethoxy)ethanol | Irritant | Rabbit | Method not given | |
| sodium xylene sulphonate | Irritant | Rabbit | OECD 405 (EU B.5) | |
| N,N-dimethyltetradecylamine N-oxide | Severe damage | Rabbit | OECD 405 (EU B.5) | |
| nitric acid | Corrosive | | Method not given | |
| alkyl alcohol ethoxylate | Severe damage | Rabbit | Weight of evidence OECD 437 | |
| Alcohols, C10-16, ethoxylated (7-<15 EO) | Severe damage | Rabbit | Method not given | |

Respiratory tract irritation and corrosivity

| Ingredient(s) | Result | Species | Method | Exposure time |
|---|---|---|---|---|
| phosphoric acid | No data available | | | |
| ethanol, 2,2'-iminobis-, N-tallow alkyl derivs., N-oxides | No data available | | | |
| propane-1,2-diol | No data available | | | |
| 2-(2-butoxyethoxy)ethanol | No data available | | | |
| sodium xylene sulphonate | No data available | | | |
| N,N-dimethyltetradecylamine N-oxide | No data available | | | |
| nitric acid | No data available | | | |
| alkyl alcohol ethoxylate | No data available | | | |
| Alcohols, C10-16, ethoxylated (7-<15 EO) | No data available | | | |

### Sensitisation

Sensitisation by skin contact

| Ingredient(s) | Result | Species | Method | Exposure time (h) |
|---|---|---|---|---|
| phosphoric acid | Not sensitising | Human | Human experience | |
| ethanol, 2,2'-iminobis-, N-tallow alkyl derivs., N-oxides | Not sensitising | Guinea pig | OECD 406 (EU B.6) / GPMT | |
| propane-1,2-diol | Not sensitising | Guinea pig | OECD 406 (EU B.6) / | |

| | | | | |
|---|---|---|---|---|
| | | | GPMT | |
| 2-(2-butoxyethoxy)ethanol | Not sensitising | Guinea pig | Method not given | |
| sodium xylene sulphonate | Not sensitising | Guinea pig | OECD 406 (EU B.6) / GPMT | |
| N,N-dimethyltetradecylamine N-oxide | No data available | | | |
| nitric acid | No data available | | | |
| alkyl alcohol ethoxylate | Not sensitising | | Weight of evidence | |
| Alcohols, C10-16, ethoxylated (7-<15 EO) | Not sensitising | Guinea pig | Method not given | |

Sensitisation by inhalation

| Ingredient(s) | Result | Species | Method | Exposure time |
|---|---|---|---|---|
| phosphoric acid | No data available | | | |
| ethanol, 2,2'-iminobis-, N-tallow alkyl derivs., N-oxides | No data available | | | |
| propane-1,2-diol | No data available | | | |
| 2-(2-butoxyethoxy)ethanol | No data available | | | |
| sodium xylene sulphonate | No data available | | | |
| N,N-dimethyltetradecylamine N-oxide | No data available | | | |
| nitric acid | No data available | | | |
| alkyl alcohol ethoxylate | No data available | | | |
| Alcohols, C10-16, ethoxylated (7-<15 EO) | No data available | | | |

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

Mutagenicity

| Ingredient(s) | Result (in-vitro) | Method (in-vitro) | Result (in-vivo) | Method (in-vivo) |
|---|---|---|---|---|
| phosphoric acid | No evidence for mutagenicity, negative test results | OECD 471 (EU B.12/13) OECD 473 OECD 476 (Mouse lymphoma) | No data available | |
| ethanol, 2,2'-iminobis-, N-tallow alkyl derivs., N-oxides | No evidence for mutagenicity, negative test results | OECD 471 (EU B.12/13) Read across | No evidence of genotoxicity, negative test results | OECD 475 (EU B.11) OECD 478 Read across |
| propane-1,2-diol | No evidence for mutagenicity, negative test results | Method not given | No data available | |
| 2-(2-butoxyethoxy)ethanol | No evidence of genotoxicity, negative test results | Method not given | No evidence of genotoxicity, negative test results | Method not given |
| sodium xylene sulphonate | No evidence for mutagenicity, negative test results | OECD 473 | No evidence for mutagenicity, negative test results | OECD 474 (EU B.12) |
| N,N-dimethyltetradecylamine N-oxide | No data available | | No data available | |
| nitric acid | No evidence for mutagenicity, negative test results | OECD 471 (EU B.12/13) | No data available | |
| alkyl alcohol ethoxylate | No evidence for mutagenicity, negative test results | OECD 473 | No data available | |
| Alcohols, C10-16, ethoxylated (7-<15 EO) | No evidence for mutagenicity, negative test results | Method not given | No evidence for mutagenicity, negative test results | Method not given |

Carcinogenicity

| Ingredient(s) | Effect |
|---|---|
| phosphoric acid | No data available |
| ethanol, 2,2'-iminobis-, N-tallow alkyl derivs., N-oxides | No evidence for carcinogenicity, negative test results |
| propane-1,2-diol | No evidence for carcinogenicity, negative test results |
| 2-(2-butoxyethoxy)ethanol | No data available |
| sodium xylene sulphonate | No evidence for carcinogenicity, negative test results |
| N,N-dimethyltetradecylamine N-oxide | No data available |
| nitric acid | No evidence for carcinogenicity, negative test results |
| alkyl alcohol ethoxylate | No evidence for carcinogenicity, negative test results |
| Alcohols, C10-16, ethoxylated (7-<15 EO) | No evidence for carcinogenicity, weight-of-evidence |

Toxicity for reproduction

| Ingredient(s) | Endpoint | Specific effect | Value (mg/kg bw/d) | Species | Method | Exposure time | Remarks and other effects reported |
|---|---|---|---|---|---|---|---|
| phosphoric acid | NOAEL | Developmental toxicity | 410 | Rat | OECD 422, oral | 10 day(s) | No evidence for reproductive toxicity No evidence for developmental toxicity |
| ethanol, 2,2'-iminobis-, N-tallow alkyl derivs., N-oxides | NOAEL | Developmental toxicity Teratogenic effects | 25 | Rat | Read across | | No evidence for developmental toxicity |
| propane-1,2-diol | | | No data available | | | | No evidence for reproductive toxicity |
| 2-(2-butoxyethoxy)ethanol | | | No data available | | | | No evidence for developmental toxicity No evidence for |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | | | | | | reproductive toxicity |
| sodium xylene sulphonate | NOAEL | Teratogenic effects | > 936 | Rat | Non guideline test | | |
| N,N-dimethyltetradecyl amine N-oxide | | | No data available | | | | |
| nitric acid | NOAEL | Developmental toxicity | 1500 | Rat | OECD 422, oral | 28 day(s) | Not toxic for reproduction |
| alkyl alcohol ethoxylate | NOAEL | | > 250 | Rat | Not known | | No effects on fertility No developmental toxicity |
| Alcohols, C10-16, ethoxylated (7-<15 EO) | | | No data available | | Literature | | No evidence for teratogenic effects 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 |
|---|---|---|---|---|---|---|
| phosphoric acid | NOAEL | 250 | Rat | OECD 422, oral | | |
| ethanol, 2,2'-iminobis-, N-tallow alkyl derivs., N-oxides | | No data available | | | | |
| propane-1,2-diol | | No data available | | | | |
| 2-(2-butoxyethoxy)ethanol | | No data available | | | | |
| sodium xylene sulphonate | NOAEL | 763 - 3534 | Rat | OECD 408 (EU B.26) | 90 | |
| N,N-dimethyltetradecylamine N-oxide | | No data available | | | | |
| nitric acid | NOAEL | 1500 | Rat | OECD 422, oral | 28 | |
| alkyl alcohol ethoxylate | NOAEL | 80 - 400 | | OECD 408 (EU B.26) | | |
| Alcohols, C10-16, ethoxylated (7-<15 EO) | | 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 |
|---|---|---|---|---|---|---|
| phosphoric acid | | No data available | | | | |
| ethanol, 2,2'-iminobis-, N-tallow alkyl derivs., N-oxides | | No data available | | | | |
| propane-1,2-diol | | No data available | | | | |
| 2-(2-butoxyethoxy)ethanol | | No data available | | | | |
| sodium xylene sulphonate | NOAEL | > 440 | | OECD 411 (EU B.28) | 90 | |
| N,N-dimethyltetradecylamine N-oxide | | No data available | | | | |
| nitric acid | | No data available | | | | |
| alkyl alcohol ethoxylate | NOAEL | 80 | | OECD 411 (EU B.28) | 90 | |
| Alcohols, C10-16, ethoxylated (7-<15 EO) | | 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 |
|---|---|---|---|---|---|---|
| phosphoric acid | | No data available | | | | |
| ethanol, 2,2'-iminobis-, N-tallow alkyl derivs., N-oxides | | No data available | | | | |
| propane-1,2-diol | | No data available | | | | |
| 2-(2-butoxyethoxy)ethanol | | No data available | | | | |
| sodium xylene sulphonate | | No data available | | | | |
| N,N-dimethyltetradecylamine N-oxide | | No data available | | | | |
| nitric acid | | No data available | | | | |
| alkyl alcohol ethoxylate | | No data available | | | | |
| Alcohols, C10-16, ethoxylated (7-<15 EO) | | No data available | | | | |

Chronic toxicity

| Ingredient(s) | Exposure route | Endpoint | Value (mg/kg bw/d) | Species | Method | Exposure time | Specific effects and organs affected | Remark |
|---|---|---|---|---|---|---|---|---|
| phosphoric acid | | | No data available | | | | | |
| ethanol, 2,2'-iminobis-, N-tallow alkyl derivs., N-oxides | | | No data available | | | | | |
| propane-1,2-diol | | | No data available | | | | | |
| 2-(2-butoxyethoxy)ethanol | | | No data available | | | | | |
| sodium xylene sulphonate | Oral | | No data available | Rat | OECD 453 (EU B.33) | 24 month(s) | No adverse effects observed | |
| N,N-dimethyltetradecylamine N-oxide | | | No data available | | | | | |
| nitric acid | | | No data available | | | | | |
| alkyl alcohol ethoxylate | | | No data available | | | | | |
| Alcohols, C10-16, ethoxylated (7-<15 EO) | | | No data available | | | | | |

STOT-single exposure

| Ingredient(s) | Affected organ(s) |
|---|---|
| phosphoric acid | No data available |
| ethanol, 2,2'-iminobis-, N-tallow alkyl derivs., N-oxides | Not applicable |
| propane-1,2-diol | No data available |
| 2-(2-butoxyethoxy)ethanol | No data available |
| sodium xylene sulphonate | No data available |
| N,N-dimethyltetradecylamine N-oxide | No data available |
| nitric acid | No data available |
| alkyl alcohol ethoxylate | No data available |
| Alcohols, C10-16, ethoxylated (7-<15 EO) | No data available |

STOT-repeated exposure

| Ingredient(s) | Affected organ(s) |
|---|---|
| phosphoric acid | No data available |
| ethanol, 2,2'-iminobis-, N-tallow alkyl derivs., N-oxides | Not applicable |
| propane-1,2-diol | No data available |
| 2-(2-butoxyethoxy)ethanol | No data available |
| sodium xylene sulphonate | No data available |
| N,N-dimethyltetradecylamine N-oxide | No data available |
| nitric acid | No data available |
| alkyl alcohol ethoxylate | No data available |
| Alcohols, C10-16, ethoxylated (7-<15 EO) | No data available |

**Aspiration hazard**
Substances with an aspiration hazard (H304), if any, are listed in section 3.

**Potential adverse health effects and symptoms**
Effects and symptoms related to the product, if any, are listed in subsection 4.2.

**11.2 Information on other hazards**
**11.2.1 Endocrine disrupting properties**
Endocrine disrupting properties - Human data, if available:

**11.2.2 Other information**
No other relevant information available.

## SECTION 12: Ecological information

**12.1 Toxicity**

No data is available on the mixture .

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

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

| Ingredient(s) | Endpoint | Value (mg/l) | Species | Method | Exposure time (h) |
|---|---|---|---|---|---|
| phosphoric acid | $LC_{50}$ | 138 | *Gambusia affinis* | Method not given | 96 |
| ethanol, 2,2'-iminobis-, N-tallow alkyl derivs., N-oxides | $LC_{50}$ | > 0.1 - 1 | *Brachydanio rerio* | OECD 203 (EU C.1) | 96 |
| propane-1,2-diol | $LC_{50}$ | > 1000 | *Fish* | Method not given | 24 |
| 2-(2-butoxyethoxy)ethanol | $LC_{50}$ | > 100 | *Fish* | Method not given | |
| sodium xylene sulphonate | $LC_{50}$ | > 1000 | *Oncorhynchus mykiss* | Method not given | 96 |
| N,N-dimethyltetradecylamine N-oxide | $LC_{50}$ | 1-10 | *Brachydanio rerio* | OECD 203, semi-static | 96 |
| nitric acid | $LC_{50}$ | 12.5 | *Gambusia affinis* | Method not given | 96 |
| alkyl alcohol ethoxylate | $LC_{50}$ | 5 - 7 | *Fish* | 92/69/EEC, C1, semi-static | 96 |
| Alcohols, C10-16, ethoxylated (7-<15 EO) | $LC_{50}$ | > 1-10 | *Brachydanio rerio* | Method not given | 96 |

Aquatic short-term toxicity - crustacea

| Ingredient(s) | Endpoint | Value (mg/l) | Species | Method | Exposure time (h) |
|---|---|---|---|---|---|
| phosphoric acid | $EC_{50}$ | > 100 | *Daphnia magna Straus* | OECD 202 (EU C.2) | 48 |
| ethanol, 2,2'-iminobis-, N-tallow alkyl derivs., N-oxides | $EC_{50}$ | 0.082 | *Daphnia magna Straus* | OECD 202, static | 48 |
| propane-1,2-diol | $EC_{50}$ | > 100 | *Daphnia* | Method not given | 48 |
| 2-(2-butoxyethoxy)ethanol | $EC_{50}$ | > 100 | *Daphnia magna Straus* | DIN 38412, Part 11 | 48 |
| sodium xylene sulphonate | $EC_{50}$ | > 1000 | *Daphnia* | Method not given | 48 |
| N,N-dimethyltetradecylamine N-oxide | $EC_{50}$ | > 1-10 | *Daphnia magna Straus* | OECD 202, static | 48 |
| nitric acid | $EC_{50}$ | 8609 | *Daphnia magna Straus* | Non guideline test | 24 |
| alkyl alcohol ethoxylate | $EC_{50}$ | 5.3 | *Daphnia* | 92/69/EEC | 48 |
| Alcohols, C10-16, ethoxylated (7-<15 EO) | $EC_{50}$ | > 1-10 | *Daphnia magna Straus* | Method not given | 48 |

Aquatic short-term toxicity - algae

| Ingredient(s) | Endpoint | Value (mg/l) | Species | Method | Exposure time (h) |
|---|---|---|---|---|---|
| phosphoric acid | $EC_{50}$ | > 100 | *Desmodesmus subspicatus* | OECD 201 (EU C.3) | 72 |
| ethanol, 2,2'-iminobis-, N-tallow alkyl derivs., N-oxides | $E_r C_{50}$ | 0.1-1 | *Pseudokirchneriella subcapitata* | OECD 201 (EU C.3) | 72 |
| propane-1,2-diol | $EC_{50}$ | 24200 | *Desmodesmus subspicatus* | OECD 201 (EU C.3) | 72 |
| 2-(2-butoxyethoxy)ethanol | $EC_{50}$ | > 100 | *Desmodesmus subspicatus* | Method not given | |
| sodium xylene sulphonate | $EC_{50}$ | > 230 | *Not specified* | EPA OPPTS 850.5400 | 96 |
| N,N-dimethyltetradecylamine N-oxide | $EC_{50}$ | 0.19 | *Pseudokirchneriella subcapitata* | Read across | 72 |
| nitric acid | | No data available | | | |
| alkyl alcohol ethoxylate | $EC_{50}$ | 1.4 - 47 | *Not specified* | 92/69/EEC | 72 |
| Alcohols, C10-16, ethoxylated (7-<15 EO) | $EC_{50}$ | > 1-10 | *Desmodesmus subspicatus* | Method not given | 72 |

Aquatic short-term toxicity - marine species

| Ingredient(s) | Endpoint | Value (mg/l) | Species | Method | Exposure time (days) |
|---|---|---|---|---|---|
| phosphoric acid | | No data available | | | |
| ethanol, 2,2'-iminobis-, N-tallow alkyl derivs., N-oxides | | No data available | | | |
| propane-1,2-diol | | No data available | | | |
| 2-(2-butoxyethoxy)ethanol | | No data available | | | |
| sodium xylene sulphonate | | No data available | | | |
| N,N-dimethyltetradecylamine N-oxide | | No data available | | | |
| nitric acid | | No data available | | | |
| alkyl alcohol ethoxylate | | No data | | | |

| | | | | | |
|---|---|---|---|---|---|
| | | available | | | |
| Alcohols, C10-16, ethoxylated (7-<15 EO) | | No data available | | | |

Impact on sewage plants - toxicity to bacteria

| Ingredient(s) | Endpoint | Value (mg/l) | Inoculum | Method | Exposure time |
|---|---|---|---|---|---|
| phosphoric acid | $EC_{50}$ | 270 | *Activated sludge* | Method not given | |
| ethanol, 2,2'-iminobis-, N-tallow alkyl derivs., N-oxides | $EC_{10}$ | 24 | *Pseudomonas putida* | Read across | 18 hour(s) |
| propane-1,2-diol | $EC_{0}$ | > 20000 | *Pseudomonas putida* | Method not given | 18 hour(s) |
| 2-(2-butoxyethoxy)ethanol | $EC_{10}$ | 1170 | *Pseudomonas putida* | Method not given | 16 hour(s) |
| sodium xylene sulphonate | $E_r C_{50}$ | > 1000 | *Activated sludge* | OECD 209 | 3 hour(s) |
| N,N-dimethyltetradecylamine N-oxide | $EC_{50}$ | 56 | *Pseudomonas putida* | DIN 38412 / Part 8 Read across | |
| nitric acid | | No data available | | | |
| alkyl alcohol ethoxylate | $EC_{50}$ | > 140 | *Bacteria* | DIN EN ISO 8192-OECD 209-88/302/EEC | 3 hour(s) |
| Alcohols, C10-16, ethoxylated (7-<15 EO) | $EC_{50}$ | 140 | *Activated sludge* | Method not given | |

**Aquatic long-term toxicity**

Aquatic long-term toxicity - fish

| Ingredient(s) | Endpoint | Value (mg/l) | Species | Method | Exposure time | Effects observed |
|---|---|---|---|---|---|---|
| phosphoric acid | | No data available | | | | |
| ethanol, 2,2'-iminobis-, N-tallow alkyl derivs., N-oxides | NOEC | 0.42 | *Pimephales promelas* | Read across | | |
| propane-1,2-diol | | No data available | | | | |
| 2-(2-butoxyethoxy)ethanol | | No data available | | | | |
| sodium xylene sulphonate | | No data available | | | | |
| N,N-dimethyltetradecylamine N-oxide | | No data available | | | | |
| nitric acid | $LD_{50}$ | 8226 | *Oncorhynchus mykiss* | Method not given | 96 hour(s) | |
| alkyl alcohol ethoxylate | $EC_{10}$ | 8.983 | *Not specified* | Method not given | 21 day(s) | |
| Alcohols, C10-16, ethoxylated (7-<15 EO) | | No data available | | | | |

Aquatic long-term toxicity - crustacea

| Ingredient(s) | Endpoint | Value (mg/l) | Species | Method | Exposure time | Effects observed |
|---|---|---|---|---|---|---|
| phosphoric acid | | No data available | | | | |
| ethanol, 2,2'-iminobis-, N-tallow alkyl derivs., N-oxides | NOEC | < 0.1 | *Daphnia magna* | OECD 211 | 21 day(s) | |
| propane-1,2-diol | NOEC | 13020 | *Ceriodaphnia dubia* | Method not given | 7 day(s) | |
| 2-(2-butoxyethoxy)ethanol | | No data available | | | | |
| sodium xylene sulphonate | | No data available | | | | |
| N,N-dimethyltetradecylamine N-oxide | | No data available | | | | |
| nitric acid | | No data available | | | | |
| alkyl alcohol ethoxylate | $EC_{10}$ | 2.579 | *Daphnia sp.* | Method not given | 21 day(s) | |
| Alcohols, C10-16, ethoxylated (7-<15 EO) | $EC_{10}$ | > 0.1-1 | *Daphnia sp.* | OECD 211 | | |

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

| Ingredient(s) | Endpoint | Value (mg/kg dw sediment) | Species | Method | Exposure time (days) | Effects observed |
|---|---|---|---|---|---|---|
| phosphoric acid | | No data available | | | | |
| ethanol, 2,2'-iminobis-, N-tallow alkyl derivs., N-oxides | | No data | | | | |

| | | | | | | |
|---|---|---|---|---|---|---|
| | | available | | | | |
| propane-1,2-diol | | No data available | | | | |
| 2-(2-butoxyethoxy)ethanol | | No data available | | | | |
| sodium xylene sulphonate | | No data available | | | | |
| N,N-dimethyltetradecylamine N-oxide | | No data available | | | | |
| nitric acid | | No data available | | | | |
| alkyl alcohol ethoxylate | | No data available | | | | |
| Alcohols, C10-16, ethoxylated (7-<15 EO) | | No data available | | | | |

**Terrestrial toxicity**

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

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

Terrestrial toxicity - plants, if available:

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

Terrestrial toxicity - birds, if available:

| Ingredient(s) | Endpoint | Value | Species | Method | Exposure time (days) | Effects observed |
|---|---|---|---|---|---|---|
| phosphoric acid | | No data available | | | | |
| nitric acid | | No data available | | | | |

Terrestrial toxicity - beneficial insects, if available:

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

Terrestrial toxicity - soil bacteria, if available:

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

**12.2 Persistence and degradability**

**Abiotic degradation**

Abiotic degradation - photodegradation in air, if available:

| Ingredient(s) | Half-life time | Method | Evaluation | Remark |
|---|---|---|---|---|
| phosphoric acid | No data available | | | |
| nitric acid | No data available | | | |

Abiotic degradation - hydrolysis, if available:

| Ingredient(s) | Half-life time in fresh water | Method | Evaluation | Remark |
|---|---|---|---|---|
| phosphoric acid | No data available | | | |
| nitric acid | No data available | | | |

Abiotic degradation - other processes, if available:

| Ingredient(s) | Type | Half-life time | Method | Evaluation | Remark |
|---|---|---|---|---|---|
| phosphoric acid | | No data available | | | |
| nitric acid | | No data available | | | |

**Biodegradation**

Ready biodegradability - aerobic conditions

| Ingredient(s) | Inoculum | Analytical method | DT 50 | Method | Evaluation |
|---|---|---|---|---|---|
| phosphoric acid | | | | | Not applicable (inorganic substance) |
| ethanol, 2,2'-iminobis-, N-tallow alkyl derivs., N-oxides | | Oxygen depletion | > 60% | OECD 301D | Readily biodegradable |
| propane-1,2-diol | | | > 70 % in 28 day(s) | OECD 301A | Readily biodegradable |
| 2-(2-butoxyethoxy)ethanol | Activated sludge, aerobe | COD removal | 95% in 28 day(s) | OECD 301C | Readily biodegradable |
| sodium xylene sulphonate | Activated sludge, aerobe | $CO_2$ production | 99.8 % in 28 day(s) | OECD 301B | Readily biodegradable |
| N,N-dimethyltetradecylamine N-oxide | Activated sludge, aerobe | $CO_2$ production | > 60 % in 28 day(s) | OECD 301B | Readily biodegradable |
| nitric acid | | | | | Not applicable (inorganic substance) |
| alkyl alcohol ethoxylate | | | | OECD 301B | Readily biodegradable |
| Alcohols, C10-16, ethoxylated (7-<15 EO) | Activated sludge, aerobe | Method not given | > 60 % in 28 day(s) | OECD 301B | Readily biodegradable |

Ready biodegradability - anaerobic and marine conditions, if available:

| Ingredient(s) | Medium & Type | Analytical method | DT 50 | Method | Evaluation |
|---|---|---|---|---|---|
| phosphoric acid | | | | | No data available |
| nitric acid | | | | | No data available |

Degradation in relevant environmental compartments, if available:

| Ingredient(s) | Medium & Type | Analytical method | DT 50 | Method | Evaluation |
|---|---|---|---|---|---|
| phosphoric acid | | | | | No data available |
| nitric acid | | | | | No data available |

**12.3 Bioaccumulative potential**

Partition coefficient n-octanol/water (log Kow)

| Ingredient(s) | Value | Method | Evaluation | Remark |
|---|---|---|---|---|
| phosphoric acid | No data available | | No bioaccumulation expected | |
| ethanol, 2,2'-iminobis-, N-tallow alkyl derivs., N-oxides | No data available | | No bioaccumulation expected | |
| propane-1,2-diol | -1.07 | Method not given | No bioaccumulation expected | |
| 2-(2-butoxyethoxy)ethanol | 0.56 | Method not given | No bioaccumulation expected | |
| sodium xylene sulphonate | -3.12 | Method not given | No bioaccumulation expected | |
| N,N-dimethyltetradecylamine N-oxide | No data available | | No bioaccumulation expected | |
| nitric acid | -2.3 | Method not given | Not relevant, does not bioaccumulate | |
| alkyl alcohol ethoxylate | 3.11 - 4.19 | Method not given | High potential for bioaccumulation | |
| Alcohols, C10-16, ethoxylated (7-<15 EO) | 3.55 | QSAR | No bioaccumulation expected | |

Bioconcentration factor (BCF)

| Ingredient(s) | Value | Species | Method | Evaluation | Remark |
|---|---|---|---|---|---|
| phosphoric acid | No data available | | | No bioaccumulation expected | |
| ethanol, 2,2'-iminobis-, N-tallow alkyl derivs., N-oxides | - | | | Not relevant, does not bioaccumulate | |
| propane-1,2-diol | No data available | | | | |
| 2-(2-butoxyethoxy)ethanol | 1.4 | | QSAR | Low potential for bioaccumulation | |
| sodium xylene sulphonate | No data available | | | | |
| N,N-dimethyltetradecylamine N-oxide | No data available | | | | |
| nitric acid | No data available | | | | |
| alkyl alcohol ethoxylate | < 500 | | Method not given | High potential for bioaccumulation | |
| Alcohols, C10-16, ethoxylated (7-<15 EO) | 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 |
|---|---|---|---|---|---|
| phosphoric acid | No data available | | | | Potential for mobility in soil, soluble in water |
| ethanol, 2,2'-iminobis-, N-tallow alkyl derivs., N-oxides | No data available | | | | |
| propane-1,2-diol | No data available | | | | Potential for mobility in soil, soluble in water |
| 2-(2-butoxyethoxy)ethanol | No data available | | | | Potential for mobility in soil, soluble in water |
| sodium xylene sulphonate | No data available | | | | |
| N,N-dimethyltetradecylamine N-oxide | No data available | | | | |
| nitric acid | No data available | | | | Mobile in aqueous environment |
| alkyl alcohol ethoxylate | No data available | | | | Potential for mobility in soil, soluble in water |
| Alcohols, C10-16, ethoxylated (7-<15 EO) | No data available | | | | |

**12.5 Results of PBT and vPvB assessment**
Substances that fulfill the criteria for PBT/vPvB, if any, are listed in section 3.

**12.6 Endocrine disrupting properties**
Endocrine disrupting properties - Environmental effects, if available:

**12.7 Other adverse effects**
No other adverse effects known.

## SECTION 13: Disposal considerations

**13.1 Waste treatment methods**

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

**European Waste Catalogue:** 20 01 14* - acids.

**Empty packaging**

**Recommendation:** Dispose of observing national or local regulations.

**Suitable cleaning agents:** Water, if necessary with cleaning agent.

## SECTION 14: Transport information


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

**14.1 UN number or ID number:** 1805

**14.2 UN proper shipping name:**
Phosphoric acid, solution

**14.3 Transport hazard class(es):**
**Transport hazard class (and subsidiary risks):** 8

**14.4 Packing group:** III

**14.5 Environmental hazards:**
**Environmentally hazardous:** No
**Marine pollutant:** No

**14.6 Special precautions for user:** None known.

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

**Other relevant information:**

**ADR**
**Classification code:** C1
**Tunnel restriction code:** (E)
**Hazard identification number:** 80

**IMO/IMDG**
**EmS:** F-A, S-B

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

## SECTION 15: Regulatory information

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

**National regulations :**
- Regulation (EC) 1907/2006 - REACH (UK amended)
- Regulation (EC) 1272/2008 - CLP (UK amended)
- Regulation (EC) 648/2004 - Detergents regulation (UK amended)
- Delegated Regulation (EU) 2017/2100 and Regulation (EU) 2018/605 (UK amended)
- Agreement concerning the International Carriage of Dangerous Goods by Road (ADR)
- International Maritime Dangerous Goods (IMDG) Code
- Control of Poisons and Explosives Precursors Regulations 2015

**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 % |
| anionic surfactants | < 5 % |

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

**Comah - classification:** Not classified

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

## SECTION 16: Other information

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

**SDS code:** MSDS1579 **Version:** 10.0 **Revision:** 2024-08-07

**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):, 2, 3, 4, 6, 7, 8, 9, 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
- H272 - May intensify fire; oxidiser.
- H290 - May be corrosive to metals.
- H302 - Harmful if swallowed.
- H314 - Causes severe skin burns and eye damage.
- H315 - Causes skin irritation.

- H318 - Causes serious eye damage.
- H319 - Causes serious eye irritation.
- H331 - Toxic if inhaled.
- H400 - Very toxic to aquatic life.
- H411 - Toxic to aquatic life with long lasting effects.
- H412 - Harmful to aquatic life with long lasting effects.
- EUH071 - Corrosive to the respiratory tract.

**End of Safety Data Sheet**