



## Supergel VG3

Revision: 2022-05-08

Version: 03.0

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

#### 1.1 Product identifier

**Trade name:** Supergel VG3

UFI: RPF1-10S7-J006-M0G3

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

|                              |  |
|------------------------------|--|
| <b>Product use:</b>          | Open plant cleaning chemical.<br>For industrial use only.. |
| <b>Uses advised against:</b> | 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, 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

Flam. Liq. 3 (H226)  
Skin Corr. 1B (H314)  
Eye Dam. 1 (H318)  
Aquatic Chronic 3 (H412)  
Met. Corr. 1 (H290)

#### 2.2 Label elements



**Signal word:** Danger.

Contains sodium hydroxide (Sodium Hydroxide), tetrasodium ethylene diamine tetraacetate (Tetrasodium EDTA), ethanol, 2,2'-iminobis-, N-tallow alkyl derivs., N-oxides (Dihydroxyethyl Tallowamine Oxide), N,N-dimethyltetradecylamine N-oxide (Myristamine Oxide)

#### Hazard statements:

H226 - Flammable liquid and vapour.  
H290 - May be corrosive to metals.  
H314 - Causes severe skin burns and eye damage.  
H412 - Harmful to aquatic life with long lasting effects.

## Supergel VG3

**Precautionary statements:**

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

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.

P403 + P235 - Store in a well-ventilated place. Keep cool.

**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 |
|---|-----------|------------|------------------|--|-------|----------------|
| propan-2-ol   | 200-661-7 | 67-63-0    | 01-2119457558-25 | Flam. Liq. 2 (H225)<br>STOT SE 3 (H336)<br>Eye Irrit. 2 (H319)   |       | 3-10           |
| sodium hydroxide  | 215-185-5 | 1310-73-2  | 01-2119457892-27 | Skin Corr. 1A (H314)<br>Met. Corr. 1 (H290)  |       | 3-10           |
| tetrasodium ethylene diamine tetraacetate                 | 200-573-9 | 64-02-8    | 01-2119486762-27 | Acute Tox. 4 (H302)<br>Acute Tox. 4 (H332)<br>STOT RE 2 (H373)<br>Eye Dam. 1 (H318)                                    |       | 3-10           |
| ethanol, 2,2'-iminobis-, N-tallow alkyl derivs., N-oxides | 263-179-6 | 61791-46-6 | 01-2120770736-44 | Eye Dam. 1 (H318)<br>Aquatic Acute 1 (H400)<br>Aquatic Chronic 2 (H411)  |       | 1-3            |
| propane-1,2-diol  | 200-338-0 | 57-55-6    | 01-2119456809-23 | Not classified as hazardous  |       | 1-3            |
| N,N-dimethyltetradecylamine N-oxide                       | 222-059-3 | 3332-27-2  | 01-2119949262-37 | Acute Tox. 4 (H302)<br>Skin Irrit. 2 (H315)<br>Eye Dam. 1 (H318)<br>Aquatic Acute 1 (H400)<br>Aquatic Chronic 2 (H411) |       | 1-3            |

**Specific concentration limits**

sodium hydroxide:

- Eye Dam. 1 (H318) >= 3% > Eye Irrit. 2 (H319) >= 0.5%
- Skin Corr. 1A (H314) >= 5% > Skin Corr. 1B (H314) >= 2% > Skin Irrit. 2 (H315) >= 0.5%

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

ATE, if available, are listed in section 11.

For the full text of the H and EUH phrases mentioned in this Section, see Section 16..

**SECTION 4: First aid measures****4.1 Description of first aid measures****General Information:**

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

**Inhalation:**

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. Wash skin with plenty of lukewarm, gently flowing water. Take off immediately all contaminated clothing and wash it before reuse. Immediately call a POISON CENTRE, doctor or physician. 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. 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

**Supergel VG3**

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**

Turn off all sources of ignition. Ventilate the area. 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, sawdust). Do not place spilled materials back into the original container. Collect in closed and suitable containers for disposal.

**6.4 Reference to other sections**

For personal protective equipment see subsection 8.2. For disposal considerations see section 13.

**SECTION 7: Handling and storage****7.1 Precautions for safe handling****Measures to prevent fire and explosions:**

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Take precautionary measures against static discharges. Use explosion-proof electrical, ventilating or lighting equipment. Use non-sparking tools.

**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 advised 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 well-ventilated place. 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.

Comah - Lower Tier requirements (tonnes): 5000

Comah - Upper Tier requirements (tonnes): 50000

**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)              |
|------------------|---------------------------------------|---------------------------------------|
| propan-2-ol      | 400 ppm<br>999 mg/m <sup>3</sup>      | 500 ppm<br>1250 mg/m <sup>3</sup>     |
| sodium hydroxide |                                       | 2 mg/m <sup>3</sup>                   |
| propane-1,2-diol | 150 ppm total vapour and particulates | 450 ppm total vapour and particulates |

|  |  |  |
|--|--|--|
|  | 474 mg/m <sup>3</sup> total vapour and particulates<br>10 mg/m <sup>3</sup> particulates | 1422 mg/m <sup>3</sup> total vapour and particulates<br>30 mg/m <sup>3</sup> particulate |
|--|--|--|

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 |
|---|----------------------------|-------------------------------|---------------------------|------------------------------|
| propan-2-ol   | -                          | -                             | -                         | 26                           |
| sodium hydroxide  | -                          | -                             | -                         | -                            |
| tetrasodium ethylene diamine tetraacetate                 | -                          | -                             | -                         | 25                           |
| ethanol, 2,2'-iminobis-, N-tallow alkyl derivs., N-oxides | -                          | -                             | -                         | -                            |
| propane-1,2-diol  | -                          | -                             | -                         | 85                           |
| N,N-dimethyltetradecylamine N-oxide                       | -                          | -                             | -                         | 0.44                         |

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) |
|---|----------------------------|--|---------------------------|---|
| propan-2-ol   | -                          | -  | -                         | 888                                     |
| sodium hydroxide  | 2 %                        | -  | -                         | -                                       |
| tetrasodium ethylene diamine tetraacetate                 | -                          | -  | -                         | -                                       |
| ethanol, 2,2'-iminobis-, N-tallow alkyl derivs., N-oxides | -                          | -  | -                         | 0.3                                     |
| propane-1,2-diol  | -                          | -  | -                         | -                                       |
| N,N-dimethyltetradecylamine N-oxide                       | -                          | -  | -                         | 11                                      |

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) |
|---|----------------------------|--|---------------------------|---|
| propan-2-ol   | -                          | -  | -                         | 319                                     |
| sodium hydroxide  | 2 %                        | -  | -                         | -                                       |
| tetrasodium ethylene diamine tetraacetate                 | -                          | -  | -                         | -                                       |
| ethanol, 2,2'-iminobis-, N-tallow alkyl derivs., N-oxides | No data available          | -  | -                         | -                                       |
| propane-1,2-diol  | -                          | -  | -                         | 213                                     |
| N,N-dimethyltetradecylamine N-oxide                       | -                          | -  | -                         | 5.5                                     |

DNEL/DMEL inhalatory exposure - Worker (mg/m<sup>3</sup>)

| Ingredient(s)   | Short term - Local effects | Short term - Systemic effects | Long term - Local effects | Long term - Systemic effects |
|---|----------------------------|-------------------------------|---------------------------|------------------------------|
| propan-2-ol   | -                          | -                             | -                         | 500                          |
| sodium hydroxide  | -                          | -                             | 1                         | -                            |
| tetrasodium ethylene diamine tetraacetate                 | 3                          | 3                             | 1.5                       | 1.5                          |
| ethanol, 2,2'-iminobis-, N-tallow alkyl derivs., N-oxides | -                          | -                             | -                         | 1.48                         |
| propane-1,2-diol  | -                          | -                             | 10                        | 168                          |
| N,N-dimethyltetradecylamine N-oxide                       | -                          | -                             | -                         | 6.2                          |

DNEL/DMEL inhalatory exposure - Consumer (mg/m<sup>3</sup>)

| Ingredient(s)   | Short term - Local effects | Short term - Systemic effects | Long term - Local effects | Long term - Systemic effects |
|---|----------------------------|-------------------------------|---------------------------|------------------------------|
| propan-2-ol   | -                          | -                             | -                         | 89                           |
| sodium hydroxide  | -                          | -                             | 1                         | -                            |
| tetrasodium ethylene diamine tetraacetate                 | 1.2                        | 1.2                           | 0.6                       | -                            |
| ethanol, 2,2'-iminobis-, N-tallow alkyl derivs., N-oxides | -                          | -                             | -                         | -                            |
| propane-1,2-diol  | -                          | -                             | 10                        | 50                           |
| N,N-dimethyltetradecylamine N-oxide                       | -                          | -                             | -                         | 1.53                         |

#### 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) |
|---|-----------------------------|------------------------------|---------------------|-------------------------------|
| propan-2-ol                               | 140.9                       | 140.9                        | 140.9               | 2251                          |
| sodium hydroxide                          | -                           | -                            | -                   | -                             |
| tetrasodium ethylene diamine tetraacetate | 2.2                         | 0.22                         | 1.2                 | 43                            |

## Supergel VG3

|   |          |          |         |       |
|---|----------|----------|---------|-------|
| 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 |
| N,N-dimethyltetradecylamine N-oxide                       | 0.0335   | 0.00335  | 0.0335  | 24    |

Environmental exposure - PNEC, continued

| Ingredient(s)   | Sediment, freshwater (mg/kg) | Sediment, marine (mg/kg) | Soil (mg/kg) | Air (mg/m³) |
|---|------------------------------|--------------------------|--------------|-------------|
| propan-2-ol   | 552                          | 552                      | 28           | -           |
| sodium hydroxide  | -                            | -                        | -            | -           |
| tetrasodium ethylene diamine tetraacetate                 | -                            | -                        | 0.72         | -           |
| ethanol, 2,2'-iminobis-, N-tallow alkyl derivs., N-oxides | 1.7                          | 0.17                     | 0.81         | -           |
| propane-1,2-diol  | 572                          | 57.2                     | 50           | -           |
| N,N-dimethyltetradecylamine N-oxide                       | 5.24                         | 0.524                    | 1.02         | -           |

## 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. Where possible: use in automated/closed system and cover open containers. Transport over pipes. Filling with automatic systems. Use tools for manual handling of product.

**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 166). The use of a full-face shield or other full-face protection is strongly recommended when handling open containers or if splashes may occur.

## Hand protection:

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

## Body protection:

No special requirements under normal use conditions. Wear chemical-resistant clothing and boots in case direct dermal exposure and/or splashes may occur (EN 14605).

## Respiratory protection:

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:** No special requirements under normal use conditions.

## 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                               | AISE_SWED_IS_7_4 | IS  | PROC 7 | 480            | ERC4  |
| Spray application                           | AISE_SWED_IS_7_5 |     |        |                |       |

## Supergel VG3

**Personal protective equipment****Eye / face protection:****Hand protection:**

Safety glasses or goggles (EN 166) are always recommended for foam applications.

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:  $\geq 480$  min Material thickness:  $\geq 0.7$  mm

In consultation with the supplier of protective gloves a different type providing similar protection may be chosen.

**Body protection:**

No special requirements under normal use conditions.

**Respiratory protection:**

No special requirements under normal use conditions.

**Environmental exposure controls:**

No special requirements under normal use conditions.

**SECTION 9: Physical and chemical properties****9.1 Information on basic physical and chemical properties**

Information in this section refers to the product, unless it is specifically stated that substance data is listed

**Method / remark****Physical state:** Liquid**Colour:** Clear , Pale , Brown**Odour:** Product specific**Odour threshold:** Not applicable**Melting point/freezing point (°C):** Not determined

Not relevant to classification of this product

**Initial boiling point and boiling range (°C):** Not determined

See substance data

Substance data, boiling point

| Ingredient(s)   | Value (°C)        | Method                | Atmospheric pressure (hPa) |
|---|-------------------|-----------------------|----------------------------|
| propan-2-ol   | 82                | Method not given      | 1013                       |
| sodium hydroxide  | > 990             | Method not given      |                            |
| tetrasodium ethylene diamine tetraacetate                 | No data available | Non-experimental data |                            |
| ethanol, 2,2'-iminobis-, N-tallow alkyl derivs., N-oxides | No data available |                       |                            |
| propane-1,2-diol  | 185-190           | Method not given      | 1013                       |
| N,N-dimethyltetradecylamine N-oxide                       | 100               | Method not given      |                            |

**Method / remark****Flammability (solid, gas):** Not applicable to liquids**Flammability (liquid):** Flammable.**Flash point (°C):**  $\approx 29$  °C

closed cup

**Sustained combustion:** Not applicable.

( 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) |
|------------------|---------------------|---------------------|
| propan-2-ol      | 2                   | 13                  |
| propane-1,2-diol | 2.6                 | 12.6                |

**Method / remark****Autoignition temperature:** Not determined**Decomposition temperature:** Not applicable.**pH:**  $\geq 11.5$  (neat)

ISO 4316

**Dilution pH:**  $> 11$  (10 %)

ISO 4316

**Kinematic viscosity:**  $\approx 100$  mPa.s (20 °C)**Solubility in / Miscibility with Water:** Fully miscible

Substance data, solubility in water

| Ingredient(s)   | Value (g/l)       | Method           | Temperature (°C) |
|---|-------------------|------------------|------------------|
| propan-2-ol   | Soluble           | Method not given |                  |
| sodium hydroxide  | 1000              | Method not given | 20               |
| tetrasodium ethylene diamine tetraacetate                 | 500               | Method not given | 20               |
| ethanol, 2,2'-iminobis-, N-tallow alkyl derivs., N-oxides | No data available |                  |                  |
| propane-1,2-diol  | Soluble           | Method not given |                  |
| N,N-dimethyltetradecylamine N-oxide                       | Soluble           |                  |                  |

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

**Vapour pressure:** Not determined

**Method / remark**

See substance data

Substance data, vapour pressure

| Ingredient(s)   | Value (Pa)        | Method           | Temperature (°C) |
|---|-------------------|------------------|------------------|
| propan-2-ol   | 4200              | Method not given | 20               |
| sodium hydroxide  | < 1330            | Method not given | 20               |
| tetrasodium ethylene diamine tetraacetate                 | 0.0000000002      | Read across      | 25               |
| ethanol, 2,2'-iminobis-, N-tallow alkyl derivs., N-oxides | No data available |                  |                  |
| propane-1,2-diol  | 18.6              | Method not given | 20               |
| N,N-dimethyltetradecylamine N-oxide                       | 230               | Method not given | 25               |

**Relative density:** ≈ 1.06 (20 °C)

**Relative vapour density:** No data available.

**Particle characteristics:** No data available.

**Method / remark**

OECD 109 (EU A.3)

Not relevant to classification of this product

Not applicable to liquids.

**9.2 Other information**

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

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

**Oxidising properties:** Not oxidising.

**Corrosion to metals:** 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. Reacts with acids.

**10.6 Hazardous decomposition products**

None known under normal storage and use conditions.

## SECTION 11: Toxicological information

**11.1 Information on toxicological effects**

Mixture data:

**Relevant calculated ATE(s):**

ATE - Oral (mg/kg): >2000

ATE - Inhalatory, mists (mg/l): >5

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)     |
|------------------|------------------|-------------------|---------|-------------------|-------------------|-----------------|
| propan-2-ol      | LD <sub>50</sub> | 5840              | Rat     | OECD 401 (EU B.1) |                   | Not established |
| sodium hydroxide |                  | No data available |         |                   |                   | Not established |

|   |                  |            |     |                   |  |                 |
|---|------------------|------------|-----|-------------------|--|-----------------|
| tetrasodium ethylene diamine tetraacetate                 | LD <sub>50</sub> | 1780       | Rat | OECD 401 (EU B.1) |  | 12000           |
| ethanol, 2,2'-iminobis-, N-tallow alkyl derivs., N-oxides | LD <sub>50</sub> | > 2000     | Rat | Read across       |  | 98000           |
| propane-1,2-diol  | LD <sub>50</sub> | > 10000    | Rat | Method not given  |  | Not established |
| N,N-dimethyltetradecylamine N-oxide                       | LD <sub>50</sub> | > 300-2000 | Rat | OECD 401 (EU B.1) |  | 30000           |

## Acute dermal toxicity

| Ingredient(s)   | Endpoint         | Value (mg/kg)     | Species | Method           | Exposure time (h) | ATE (mg/kg)     |
|---|------------------|-------------------|---------|------------------|-------------------|-----------------|
| propan-2-ol   | LD <sub>50</sub> | > 2000            | Rabbit  | Method not given |                   | Not established |
| sodium hydroxide  | LD <sub>50</sub> | 1350              | Rabbit  | Method not given |                   | Not established |
| tetrasodium ethylene diamine tetraacetate                 | LD <sub>50</sub> | > 5000            | Rabbit  | Method not given |                   | Not established |
| ethanol, 2,2'-iminobis-, N-tallow alkyl derivs., N-oxides | LD <sub>50</sub> | > 2000            | Rat     | Read across      |                   | Not established |
| propane-1,2-diol  | LD <sub>50</sub> | > 2000            | Rabbit  | Method not given |                   | Not established |
| N,N-dimethyltetradecylamine N-oxide                       |                  | No data available |         |                  |                   | Not established |

## Acute inhalative toxicity

| Ingredient(s)   | Endpoint         | Value (mg/l)                       | Species | Method             | Exposure time (h) |
|---|------------------|------------------------------------|---------|--------------------|-------------------|
| propan-2-ol   | LC <sub>50</sub> | > 25 (vapour)                      | Rat     | OECD 403 (EU B.2)  | 6                 |
| sodium hydroxide  |                  | No data available                  |         |                    |                   |
| tetrasodium ethylene diamine tetraacetate                 | LC <sub>50</sub> | ≥ 1-5 (dust)                       | Rat     | OECD 403 (EU B.2)  | 6                 |
| ethanol, 2,2'-iminobis-, N-tallow alkyl derivs., N-oxides |                  | No data available                  |         |                    |                   |
| propane-1,2-diol  | LC <sub>50</sub> | > 317 (mist) No mortality observed | Rabbit  | Non guideline test |                   |
| N,N-dimethyltetradecylamine N-oxide                       |                  | 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) |
|---|-------------------------------|-------------------------------|---------------------------------|------------------------------|
| propan-2-ol   | Not established               | Not established               | Not established                 | Not established              |
| sodium hydroxide  | Not established               | Not established               | Not established                 | Not established              |
| tetrasodium ethylene diamine tetraacetate                 | Not established               | 15                            | 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              |
| N,N-dimethyltetradecylamine N-oxide                       | Not established               | Not established               | Not established                 | Not established              |

## Irritation and corrosivity

## Skin irritation and corrosivity

| Ingredient(s)   | Result       | Species | Method            | Exposure time |
|---|--------------|---------|-------------------|---------------|
| propan-2-ol   | Not irritant | Rabbit  | OECD 404 (EU B.4) |               |
| sodium hydroxide  | Corrosive    | Rabbit  | Method not given  |               |
| tetrasodium ethylene diamine tetraacetate                 | Not irritant | Rabbit  | OECD 404 (EU B.4) |               |
| ethanol, 2,2'-iminobis-, N-tallow alkyl derivs., N-oxides | Not irritant |         |                   |               |
| propane-1,2-diol  | Not irritant | Rabbit  | OECD 404 (EU B.4) |               |
| N,N-dimethyltetradecylamine N-oxide                       | Irritant     | Rabbit  | OECD 404 (EU B.4) |               |

## Eye irritation and corrosivity

| Ingredient(s)   | Result                    | Species | Method                           | Exposure time |
|---|---------------------------|---------|----------------------------------|---------------|
| propan-2-ol   | Irritant                  | Rabbit  | OECD 405 (EU B.5)                |               |
| sodium hydroxide  | Corrosive                 | Rabbit  | Method not given                 |               |
| tetrasodium ethylene diamine tetraacetate                 | Severe damage             |         | Method not given                 |               |
| ethanol, 2,2'-iminobis-, N-tallow alkyl derivs., N-oxides | Severe damage             | Rabbit  | OECD 405 (EU B.5)<br>Read across |               |
| propane-1,2-diol  | Not corrosive or irritant | Rabbit  | OECD 405 (EU B.5)                |               |
| N,N-dimethyltetradecylamine N-oxide                       | Severe damage             | Rabbit  | OECD 405 (EU B.5)                |               |

## Respiratory tract irritation and corrosivity

| Ingredient(s)   | Result            | Species | Method | Exposure time |
|---|-------------------|---------|--------|---------------|
| propan-2-ol   | No data available |         |        |               |
| sodium hydroxide  | No data available |         |        |               |
| tetrasodium ethylene diamine tetraacetate                 | No data available |         |        |               |
| ethanol, 2,2'-iminobis-, N-tallow alkyl derivs., N-oxides | No data available |         |        |               |
| propane-1,2-diol  | No data available |         |        |               |



|                                     |                   |  |  |  |
|-------------------------------------|-------------------|--|--|--|
| N,N-dimethyltetradecylamine N-oxide | No data available |  |  |  |
|-------------------------------------|-------------------|--|--|--|

**Sensitisation**

Sensitisation by skin contact

| Ingredient(s)   | Result            | Species    | Method                                       | Exposure time (h) |
|---|-------------------|------------|--|-------------------|
| propan-2-ol   | Not sensitising   | Guinea pig | OECD 406 (EU B.6) / Buehler test             |                   |
| sodium hydroxide  | Not sensitising   |            | Human repeated patch test                    |                   |
| tetrasodium ethylene diamine tetraacetate                 | Not sensitising   | Guinea pig | OECD 406 (EU B.6) / GPMT                     |                   |
| ethanol, 2,2'-iminobis-, N-tallow alkyl derivs., N-oxides | Not sensitising   | Guinea pig | OECD 406 (EU B.6) / Buehler test Read across |                   |
| propane-1,2-diol  | Not sensitising   | Guinea pig | OECD 406 (EU B.6) / GPMT                     |                   |
| N,N-dimethyltetradecylamine N-oxide                       | No data available |            |  |                   |

Sensitisation by inhalation

| Ingredient(s)   | Result            | Species | Method | Exposure time |
|---|-------------------|---------|--------|---------------|
| propan-2-ol   | No data available |         |        |               |
| sodium hydroxide  | No data available |         |        |               |
| tetrasodium ethylene diamine tetraacetate                 | No data available |         |        |               |
| ethanol, 2,2'-iminobis-, N-tallow alkyl derivs., N-oxides | No data available |         |        |               |
| propane-1,2-diol  | No data available |         |        |               |
| N,N-dimethyltetradecylamine N-oxide                       | 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)                        |
|---|---|--|---|---|
| propan-2-ol   | No evidence for mutagenicity, negative test results<br>No evidence of genotoxicity, negative test results | OECD 471 (EU B.12/13)                          | No evidence of genotoxicity, negative test results  | OECD 474 (EU B.12)                      |
| sodium hydroxide  | No evidence for mutagenicity, negative test results   | DNA repair test on rat hepatocytes<br>OECD 473 | No evidence for mutagenicity, negative test results | OECD 474 (EU B.12) OECD 475 (EU B.11)   |
| tetrasodium ethylene diamine tetraacetate                 | No evidence for mutagenicity, negative test results   | Method not given                               | No evidence of genotoxicity, negative test results  | Method not given                        |
| 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                                   |   |
| N,N-dimethyltetradecylamine N-oxide                       | No data available   |  | No data available                                   |   |

Carcinogenicity

| Ingredient(s)   | Effect   |
|---|--|
| propan-2-ol   | No evidence for carcinogenicity, negative test results |
| sodium hydroxide  | No evidence for carcinogenicity, weight-of-evidence    |
| tetrasodium ethylene diamine tetraacetate                 | No evidence for carcinogenicity, weight-of-evidence    |
| 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 |
| N,N-dimethyltetradecylamine N-oxide                       | 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  |
|---|----------|---|--------------------|---------|-------------|---------------|---|
| propan-2-ol   |          |   | No data available  |         |             |               |   |
| sodium hydroxide  |          |   | No data available  |         |             |               | No evidence for developmental toxicity<br>No evidence for reproductive toxicity |
| tetrasodium ethylene diamine tetraacetate                 |          |   | No data available  |         |             |               | No evidence for reproductive toxicity   |
| ethanol, 2,2'-iminobis-, N-tallow alkyl derivs., N-oxides | NOAEL    | Developmental toxicity<br>Teratogenic effects | 25                 | Rat     | Read across |               | No evidence for developmental toxicity  |
| propane-1,2-diol  |          |   | No data available  |         |             |               | No evidence for reproductive toxicity   |
| N,N-dimethyltetradecylamine N-oxide                       |          |   | No data available  |         |             |               |   |

**Repeated dose toxicity**

Sub-acute or sub-chronic oral toxicity

| Ingredient(s)   | Endpoint | Value (mg/kg bw/d) | Species | Method | Exposure time (days) | Specific effects and organs affected |
|---|----------|--------------------|---------|--------|----------------------|--------------------------------------|
| propan-2-ol   |          | No data available  |         |        |                      |                                      |
| sodium hydroxide  |          | No data available  |         |        |                      |                                      |
| tetrasodium ethylene diamine tetraacetate                 |          | No data available  |         |        |                      |                                      |
| ethanol, 2,2'-iminobis-, N-tallow alkyl derivs., N-oxides |          | No data available  |         |        |                      |                                      |
| propane-1,2-diol  |          | No data available  |         |        |                      |                                      |
| N,N-dimethyltetradecylamine N-oxide                       |          | 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 |
|---|----------|--------------------|---------|--------|----------------------|--------------------------------------|
| propan-2-ol   |          | No data available  |         |        |                      |                                      |
| sodium hydroxide  |          | No data available  |         |        |                      |                                      |
| tetrasodium ethylene diamine tetraacetate                 |          | No data available  |         |        |                      |                                      |
| ethanol, 2,2'-iminobis-, N-tallow alkyl derivs., N-oxides |          | No data available  |         |        |                      |                                      |
| propane-1,2-diol  |          | No data available  |         |        |                      |                                      |
| N,N-dimethyltetradecylamine N-oxide                       |          | 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 |
|---|----------|--------------------|---------|--------|----------------------|--------------------------------------|
| propan-2-ol   |          | No data available  |         |        |                      |                                      |
| sodium hydroxide  |          | No data available  |         |        |                      |                                      |
| tetrasodium ethylene diamine tetraacetate                 |          | No data available  |         |        |                      |                                      |
| ethanol, 2,2'-iminobis-, N-tallow alkyl derivs., N-oxides |          | No data available  |         |        |                      |                                      |
| propane-1,2-diol  |          | No data available  |         |        |                      |                                      |
| N,N-dimethyltetradecylamine N-oxide                       |          | 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 |
|---|----------------|----------|--------------------|---------|--------|---------------|--------------------------------------|--------|
| propan-2-ol   |                |          | No data available  |         |        |               |                                      |        |
| sodium hydroxide  |                |          | No data available  |         |        |               |                                      |        |
| tetrasodium ethylene diamine tetraacetate                 |                |          | No data available  |         |        |               |                                      |        |
| ethanol, 2,2'-iminobis-, N-tallow alkyl derivs., N-oxides |                |          | No data available  |         |        |               |                                      |        |
| propane-1,2-diol  |                |          | No data available  |         |        |               |                                      |        |
| N,N-dimethyltetradecylamine N-oxide                       |                |          | No data available  |         |        |               |                                      |        |

STOT-single exposure

| Ingredient(s)   | Affected organ(s)      |
|---|------------------------|
| propan-2-ol   | Central nervous system |
| sodium hydroxide  | No data available      |
| tetrasodium ethylene diamine tetraacetate                 | No data available      |
| ethanol, 2,2'-iminobis-, N-tallow alkyl derivs., N-oxides | Not applicable         |
| propane-1,2-diol  | No data available      |
| N,N-dimethyltetradecylamine N-oxide                       | No data available      |

STOT-repeated exposure

| Ingredient(s)   | Affected organ(s) |
|---|-------------------|
| propan-2-ol   | No data available |
| sodium hydroxide  | No data available |
| tetrasodium ethylene diamine tetraacetate                 | Respiratory tract |
| ethanol, 2,2'-iminobis-, N-tallow alkyl derivs., N-oxides | Not applicable    |
| propane-1,2-diol  | No data available |
| N,N-dimethyltetradecylamine N-oxide                       | 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) |
|---|------------------|--------------|----------------------------|------------------------|-------------------|
| propan-2-ol   | LC <sub>50</sub> | > 100        | <i>Pimephales promelas</i> | Method not given       | 48                |
| sodium hydroxide  | LC <sub>50</sub> | 35           | <i>Various species</i>     | Method not given       | 96                |
| tetrasodium ethylene diamine tetraacetate                 | LC <sub>50</sub> | > 100        | <i>Lepomis macrochirus</i> | OPP 72-1, static (EPA) | 96                |
| ethanol, 2,2'-iminobis-, N-tallow alkyl derivs., N-oxides | LC <sub>50</sub> | > 0.1 - 1    | <i>Brachydanio rerio</i>   | OECD 203 (EU C.1)      | 96                |
| propane-1,2-diol  | LC <sub>50</sub> | > 1000       | <i>Fish</i>                | Method not given       | 24                |
| N,N-dimethyltetradecylamine N-oxide                       | LC <sub>50</sub> | 1-10         | <i>Brachydanio rerio</i>   | OECD 203, semi-static  | 96                |

Aquatic short-term toxicity - crustacea

| Ingredient(s)   | Endpoint         | Value (mg/l) | Species                     | Method             | Exposure time (h) |
|---|------------------|--------------|-----------------------------|--------------------|-------------------|
| propan-2-ol   | EC <sub>50</sub> | > 100        | <i>Daphnia magna Straus</i> | Method not given   | 48                |
| sodium hydroxide  | EC <sub>50</sub> | 40.4         | <i>Ceriodaphnia sp.</i>     | Method not given   | 48                |
| tetrasodium ethylene diamine tetraacetate                 | EC <sub>50</sub> | 140          | <i>Daphnia magna Straus</i> | DIN 38412, Part 11 | 48                |
| ethanol, 2,2'-iminobis-, N-tallow alkyl derivs., N-oxides | EC <sub>50</sub> | 0.082        | <i>Daphnia magna Straus</i> | OECD 202, static   | 48                |
| propane-1,2-diol  | EC <sub>50</sub> | > 100        | <i>Daphnia</i>              | Method not given   | 48                |
| N,N-dimethyltetradecylamine N-oxide                       | EC <sub>50</sub> | > 1-10       | <i>Daphnia magna Straus</i> | OECD 202, static   | 48                |

Aquatic short-term toxicity - algae

| Ingredient(s)   | Endpoint                       | Value (mg/l) | Species                                | Method                     | Exposure time (h) |
|---|--------------------------------|--------------|--|----------------------------|-------------------|
| propan-2-ol   | EC <sub>50</sub>               | > 100        | <i>Scenedesmus quadricauda</i>         | Method not given           | 72                |
| sodium hydroxide  | EC <sub>50</sub>               | 22           | <i>Photobacterium phosphoreum</i>      | Method not given           | 0.25              |
| tetrasodium ethylene diamine tetraacetate                 | EC <sub>50</sub>               | > 100        | <i>Scenedesmus obliquus</i>            | 88/302/EEC, Part C, static | 72                |
| ethanol, 2,2'-iminobis-, N-tallow alkyl derivs., N-oxides | E <sub>r</sub> C <sub>50</sub> | 0.1-1        | <i>Pseudokirchneriella subcapitata</i> | OECD 201 (EU C.3)          | 72                |

## Supergel VG3

|                                     |                  |       |  |                   |    |
|-------------------------------------|------------------|-------|--|-------------------|----|
| propane-1,2-diol                    | EC <sub>50</sub> | 24200 | <i>Desmodesmus subspicatus</i>         | OECD 201 (EU C.3) | 72 |
| N,N-dimethyltetradecylamine N-oxide | EC <sub>50</sub> | 0.19  | <i>Pseudokirchneriella subcapitata</i> | Read across       | 72 |

## Aquatic short-term toxicity - marine species

| Ingredient(s)   | Endpoint | Value (mg/l)      | Species | Method | Exposure time (days) |
|---|----------|-------------------|---------|--------|----------------------|
| propan-2-ol   |          | No data available |         |        |                      |
| sodium hydroxide  |          | No data available |         |        |                      |
| tetrasodium ethylene diamine tetraacetate                 |          | No data available |         |        |                      |
| ethanol, 2,2'-iminobis-, N-tallow alkyl derivs., N-oxides |          | No data available |         |        |                      |
| propane-1,2-diol  |          | No data available |         |        |                      |
| N,N-dimethyltetradecylamine N-oxide                       |          | No data available |         |        |                      |

## Impact on sewage plants - toxicity to bacteria

| Ingredient(s)   | Endpoint         | Value (mg/l)      | Inoculum                  | Method                            | Exposure time |
|---|------------------|-------------------|---------------------------|-----------------------------------|---------------|
| propan-2-ol   | EC <sub>50</sub> | > 1000            | Activated sludge          | Method not given                  |               |
| sodium hydroxide  |                  | No data available |                           |                                   |               |
| tetrasodium ethylene diamine tetraacetate                 | EC <sub>20</sub> | > 500             | Activated sludge          | OECD 209                          | 0.5 hour(s)   |
| ethanol, 2,2'-iminobis-, N-tallow alkyl derivs., N-oxides | EC <sub>10</sub> | 24                | <i>Pseudomonas putida</i> | Read across                       | 18 hour(s)    |
| propane-1,2-diol  | EC <sub>0</sub>  | > 20000           | <i>Pseudomonas putida</i> | Method not given                  | 18 hour(s)    |
| N,N-dimethyltetradecylamine N-oxide                       | EC <sub>50</sub> | 56                | <i>Pseudomonas putida</i> | DIN 38412 / Part 8<br>Read across |               |

## Aquatic long-term toxicity

## Aquatic long-term toxicity - fish

| Ingredient(s)   | Endpoint | Value (mg/l)      | Species                    | Method      | Exposure time | Effects observed |
|---|----------|-------------------|----------------------------|-------------|---------------|------------------|
| propan-2-ol   |          | No data available |                            |             |               |                  |
| sodium hydroxide  |          | No data available |                            |             |               |                  |
| tetrasodium ethylene diamine tetraacetate                 | NOEC     | > 25.7            | <i>Brachydanio rerio</i>   | OECD 210    | 35 day(s)     |                  |
| ethanol, 2,2'-iminobis-, N-tallow alkyl derivs., N-oxides | NOEC     | 0.42              | <i>Pimephales promelas</i> | Read across |               |                  |
| propane-1,2-diol  |          | No data available |                            |             |               |                  |
| N,N-dimethyltetradecylamine N-oxide                       |          | No data available |                            |             |               |                  |

## Aquatic long-term toxicity - crustacea

| Ingredient(s)   | Endpoint | Value (mg/l)      | Species                   | Method           | Exposure time | Effects observed |
|---|----------|-------------------|---------------------------|------------------|---------------|------------------|
| propan-2-ol   |          | No data available |                           |                  |               |                  |
| sodium hydroxide  |          | No data available |                           |                  |               |                  |
| tetrasodium ethylene diamine tetraacetate                 | NOEC     | 25                | <i>Daphnia magna</i>      | OECD 211         | 21 day(s)     |                  |
| ethanol, 2,2'-iminobis-, N-tallow alkyl derivs., N-oxides | NOEC     | < 0.1             | <i>Daphnia magna</i>      | OECD 211         | 21 day(s)     |                  |
| propane-1,2-diol  | NOEC     | 13020             | <i>Ceriodaphnia dubia</i> | Method not given | 7 day(s)      |                  |
| N,N-dimethyltetradecylamine N-oxide                       |          | No data available |                           |                  |               |                  |

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

| Ingredient(s)    | Endpoint | Value (mg/kg dw sediment) | Species | Method | Exposure time (days) | Effects observed |
|------------------|----------|---------------------------|---------|--------|----------------------|------------------|
| propan-2-ol      |          | No data available         |         |        |                      |                  |
| sodium hydroxide |          | No data                   |         |        |                      |                  |

## Supergel VG3

|   |  |                   |  |  |  |  |
|---|--|-------------------|--|--|--|--|
|   |  | available         |  |  |  |  |
| tetrasodium ethylene diamine tetraacetate                 |  | No data available |  |  |  |  |
| ethanol, 2,2'-iminobis-, N-tallow alkyl derivs., N-oxides |  | No data available |  |  |  |  |
| propane-1,2-diol  |  | No data available |  |  |  |  |
| N,N-dimethyltetradecylamine N-oxide                       |  | 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 |
|---|------------------|-----------------------|-----------------------|----------|----------------------|------------------|
| propan-2-ol                               |                  | No data available     |                       |          |                      |                  |
| sodium hydroxide                          |                  | No data available     |                       |          |                      |                  |
| tetrasodium ethylene diamine tetraacetate | LD <sub>50</sub> | 156                   | <i>Eisenia fetida</i> | OECD 207 | 14                   |                  |

Terrestrial toxicity - plants, if available:

| Ingredient(s)                             | Endpoint | Value (mg/kg dw soil) | Species | Method | Exposure time (days) | Effects observed |
|---|----------|-----------------------|---------|--------|----------------------|------------------|
| propan-2-ol                               |          | No data available     |         |        |                      |                  |
| sodium hydroxide                          |          | No data available     |         |        |                      |                  |
| tetrasodium ethylene diamine tetraacetate | NOEC     | 0.25 - 1.25           |         |        | 21                   |                  |

Terrestrial toxicity - birds, if available:

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

Terrestrial toxicity - beneficial insects, if available:

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

Terrestrial toxicity - soil bacteria, if available:

| Ingredient(s)    | Endpoint | Value (mg/kg dw soil) | Species | Method | Exposure time (days) | Effects observed |
|------------------|----------|-----------------------|---------|--------|----------------------|------------------|
| propan-2-ol      |          | No data available     |         |        |                      |                  |
| sodium hydroxide |          | 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 |
|---|-------------------|------------------|-------------------------|--------|
| propan-2-ol                               | No data available |                  |                         |        |
| sodium hydroxide                          | 13 second(s)      | Method not given | Rapidly photodegradable |        |
| tetrasodium ethylene diamine tetraacetate | No data available |                  |                         |        |

Abiotic degradation - hydrolysis, if available:

| Ingredient(s)                             | Half-life time in fresh water | Method | Evaluation | Remark |
|---|-------------------------------|--------|------------|--------|
| propan-2-ol                               | No data available             |        |            |        |
| sodium hydroxide                          | No data available             |        |            |        |
| tetrasodium ethylene diamine tetraacetate | No data available             |        |            |        |

Abiotic degradation - other processes, if available:

| Ingredient(s)                             | Type | Half-life time    | Method | Evaluation | Remark |
|---|------|-------------------|--------|------------|--------|
| propan-2-ol                               |      | No data available |        |            |        |
| sodium hydroxide                          |      | No data available |        |            |        |
| tetrasodium ethylene diamine tetraacetate |      | No data available |        |            |        |

**Biodegradation**

Ready biodegradability - aerobic conditions

| Ingredient(s)   | Inoculum                 | Analytical method          | DT <sub>50</sub>    | Method             | Evaluation   |
|---|--------------------------|----------------------------|---------------------|--------------------|--|
| propan-2-ol   |                          |                            | 95 % in 21 day(s)   | OECD 301E          | Readily biodegradable                                |
| sodium hydroxide  |                          |                            |                     |                    | Not applicable (inorganic substance)                 |
| tetrasodium ethylene diamine tetraacetate                 |                          |                            |                     | Weight of evidence | Not readily biodegradable. Inherently biodegradable. |
| 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                                |
| N,N-dimethyltetradecylamine N-oxide                       | Activated sludge, aerobe | CO <sub>2</sub> production | > 60 % in 28 day(s) | OECD 301B          | Readily biodegradable                                |

Ready biodegradability - anaerobic and marine conditions, if available:

| Ingredient(s)                             | Medium & Type | Analytical method | DT <sub>50</sub> | Method | Evaluation        |
|---|---------------|-------------------|------------------|--------|-------------------|
| propan-2-ol                               |               |                   |                  |        | No data available |
| sodium hydroxide                          |               |                   |                  |        | No data available |
| tetrasodium ethylene diamine tetraacetate |               |                   |                  |        | No data available |

Degradation in relevant environmental compartments, if available:

| Ingredient(s)                             | Medium & Type | Analytical method | DT <sub>50</sub> | Method | Evaluation        |
|---|---------------|-------------------|------------------|--------|-------------------|
| propan-2-ol                               |               |                   |                  |        | No data available |
| sodium hydroxide                          |               |                   |                  |        | No data available |
| tetrasodium ethylene diamine tetraacetate |               |                   |                  |        | No data available |

**12.3 Bioaccumulative potential**Partition coefficient n-octanol/water (log K<sub>ow</sub>)

| Ingredient(s)   | Value             | Method           | Evaluation                           | Remark |
|---|-------------------|------------------|--------------------------------------|--------|
| propan-2-ol   | 0.05              | OECD 107         | No bioaccumulation expected          |        |
| sodium hydroxide  | No data available |                  | Not relevant, does not bioaccumulate |        |
| tetrasodium ethylene diamine tetraacetate                 | -3.86             | Method not given | 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          |        |
| N,N-dimethyltetradecylamine N-oxide                       | No data available |                  | No bioaccumulation expected          |        |

Bioconcentration factor (BCF)

| Ingredient(s)   | Value             | Species                    | Method   | Evaluation                           | Remark |
|---|-------------------|----------------------------|----------|--------------------------------------|--------|
| propan-2-ol   | No data available |                            |          |                                      |        |
| sodium hydroxide  | No data available |                            |          |                                      |        |
| tetrasodium ethylene diamine tetraacetate                 | 1.8               | <i>Lepomis macrochirus</i> | OECD 305 | Low potential for bioaccumulation    |        |
| ethanol, 2,2'-iminobis-, N-tallow alkyl derivs., N-oxides | -                 |                            |          | Not relevant, does not bioaccumulate |        |
| propane-1,2-diol  | No data available |                            |          |                                      |        |
| N,N-dimethyltetradecylamine N-oxide                       | No data available |                            |          |                                      |        |

**12.4 Mobility in soil**

Adsorption/Desorption to soil or sediment

| Ingredient(s)                             | Adsorption coefficient Log K <sub>oc</sub> | Desorption coefficient Log K <sub>oc</sub> (des) | Method | Soil/sediment type | Evaluation                                       |
|---|--|--|--------|--------------------|--|
| propan-2-ol                               | No data available                          |  |        |                    | Potential for mobility in soil, soluble in water |
| sodium hydroxide                          | No data available                          |  |        |                    | Mobile in soil                                   |
| tetrasodium ethylene diamine tetraacetate | No data available                          |  |        |                    | Adsorption to solid soil phase is not expected   |

## Supergel VG3

|   |                   |  |  |  |  |
|---|-------------------|--|--|--|--|
| 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 |
| N,N-dimethyltetradecylamine N-oxide                       | 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 15\* - alkalines.

**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:** 2920**14.2 UN proper shipping name:**

Corrosive liquid, flammable, n.o.s. ( sodium hydroxide , isopropanol )

**14.3 Transport hazard class(es):**

Transport hazard class (and subsidiary risks): 8(3)

**14.4 Packing group:** II**14.5 Environmental hazards:**

Marine pollutant: No

**14.6 Special precautions for user:****14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code:****Other relevant information:**

Classification code: CF1

Tunnel restriction code: D/E

Hazard identification number: 83

**IMO/IMDG**

EmS: F-E, S-C

**SECTION 15: Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****National regulations :**

- Regulation (EC) 1907/2006 - REACH (UK amended)
- Regulation (EC) 1272/2008 - CLP (UK amended)
- Regulation (EC) 648/2004 - Detergents regulation (UK amended)
- Delegated Regulation (EU) 2017/2100 and Regulation (EU) 2018/605 (UK amended)
- Agreement concerning the International Carriage of Dangerous Goods by Road (ADR)
- International Maritime Dangerous Goods (IMDG) Code

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

**Ingredients according to Detergents Regulation**

non-ionic surfactants, soap, EDTA and salts thereof

< 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.

## Supergel VG3

**Comah - classification:** P5c - FLAMMABLE LIQUIDS

**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:** MS1001712

**Version:** 03.0

**Revision:** 2022-05-08

**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, 11, 12, 16

**Classification procedure**

The classification of the mixture is in general based on calculation methods using substance data, as required by Regulation (EC) No 1272/2008. If for certain classifications data on the mixture is available or for example bridging principles or weight of evidence can be used for classification, this will be indicated in the relevant sections of the Safety Data Sheet. See section 9 for physical chemical properties, section 11 for toxicological information and section 12 for ecological information.

**Full text of the H and EUH phrases mentioned in section 3:**

- H225 - Highly flammable liquid and vapour.
- H290 - May be corrosive to metals.
- H302 - Harmful if swallowed.
- H314 - Causes severe skin burns and eye damage.
- H315 - Causes skin irritation.
- H318 - Causes serious eye damage.
- H319 - Causes serious eye irritation.
- H332 - Harmful if inhaled.
- H336 - May cause drowsiness or dizziness.
- H373 - May cause damage to organs through prolonged or repeated exposure.
- H400 - Very toxic to aquatic life.
- H411 - Toxic to aquatic life with long lasting effects.

**Abbreviations and acronyms:**

- AISE - The International Association for Soaps, Detergents and Maintenance Products
- ATE - Acute Toxicity Estimate
- DNEL - Derived No Effect Limit
- EC50 - effective concentration, 50%
- ERC - Environmental release categories
- EUH - CLP Specific hazard statement
- LC50 - Lethal Concentration, 50% / Median Lethal Concentration
- LCS - Life cycle stage
- LD50 - Lethal Dose, 50% / Median Lethal dose
- NOAEL - No observed adverse effect level
- NOEL - No observed effect level
- OECD - 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

**End of Safety Data Sheet**