

Securegel VG5

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: Securegel VG5

UFI: 4HX3-10HH-P003-NJ0U

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

Product use: Open plant cleaning chemical.
For professional and industrial use only.

Uses advised against: Uses other than those identified are not recommended.

SWED - Sector-specific worker exposure description :

AISE_SWED_PW_11_1
AISE_SWED_PW_19_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 [Maarssebroeksedijk 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

Serious eye damage, Category 1 (H318)
Chronic aquatic toxicity, Category 3 (H412)

2.2 Label elements



Signal word: Danger.

Contains alkyl alcohol ethoxylate (C9-11 Pareth-5-10)

Hazard statements:

H318 - Causes serious eye damage.
H412 - Harmful to aquatic life with long lasting effects.

Precautionary statements:

P280 - Wear eye or face protection.
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 - Immediately call a POISON CENTRE, doctor or physician.

2.3 Other hazards

No other hazards known.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

| Ingredient(s) | EC number | CAS number | REACH number | Classification | Notes | Weight percent |
|--|-----------|------------|----------------------|---|-------|----------------|
| alkyl alcohol ethoxylate | [4] | 68439-46-3 | [4] | Acute toxicity - Oral, Category 4 (H302) Serious eye damage, Category 1 (H318) | | 50-75 |
| (2-methoxymethylethoxy)propanol | 252-104-2 | 34590-94-8 | 01-211945001 1-60 | Not classified as hazardous | | 10-20 |
| N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine | 219-145-8 | 2372-82-9 | [6] | Acute toxicity - Oral, Category 3 (H301) Skin corrosion, Category 1B (H314) Specific target organ toxicity - Repeated exposure, Category 2 (H373) Serious eye damage, Category 1 (H318) Acute aquatic toxicity, Category 1 M=10 (H400) Chronic aquatic toxicity, Category 1 M=1 (H410) | | 1-3 |
| oleyl bis(2-hydroxyethyl)amine | 246-807-3 | 25307-17-9 | 01-211951087 6-35 | Skin corrosion, Category 1B (H314) Acute toxicity - Oral, Category 4 (H302) Serious eye damage, Category 1 (H318) Acute aquatic toxicity, Category 1 M=10 (H400) Chronic aquatic toxicity, Category 1 M=1 (H410) | | 0.1-1 |

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.

[6] Exempted: biocidal active. See Article 15(2) of Regulation (EC) No 1907/2006.

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

SECTION 4: First aid measures

4.1 Description of first aid measures

| | |
|--|---|
| Inhalation: | Get medical attention or advice if you feel unwell. |
| Skin contact: | Wash skin with plenty of lukewarm, gently flowing water. If skin irritation occurs: Get medical advice or attention. |
| Eye contact: | Hold eyelids apart and flush eyes with plenty of lukewarm water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTRE, doctor or physician. |
| Ingestion: | Rinse mouth. Immediately drink 1 glass of water. Never give anything by mouth to an unconscious person. Get medical attention or advice if you feel unwell. |
| Self-protection of first aider: | Consider personal protective equipment as indicated in subsection 8.2. |

4.2 Most important symptoms and effects, both acute and delayed

| | |
|----------------------|---|
| Inhalation: | No known effects or symptoms in normal use. |
| Skin contact: | No known effects or symptoms in normal use. |
| Eye contact: | Causes severe or permanent damage. |
| Ingestion: | No known effects or symptoms in normal use. |

4.3 Indication of any immediate medical attention and special treatment needed

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

SECTION 5: Firefighting measures

5.1 Extinguishing media

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

5.2 Special hazards arising from the substance or mixture

No special hazards known.

5.3 Advice for firefighters

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

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear eye/face protection.

6.2 Environmental precautions

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

6.3 Methods and material for containment and cleaning up

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

6.4 Reference to other sections

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

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

No special precautions required.

Measures required to protect the environment:

For environmental exposure controls see subsection 8.2.

Advices on general occupational hygiene:

Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs. Do not mix with other products unless advised by Diversey. Wash hands before breaks and at the end of workday. Avoid contact with eyes. Use only with adequate ventilation. See chapter 8.2, Exposure controls / Personal protection.

7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local and national regulations. Store in a closed container. Keep only in original packaging.

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) |
|---------------------------------|---------------------------------|----------------------------------|
| (2-methoxymethylethoxy)propanol | 50 ppm 308 mg/m ³ | 150 ppm 924 mg/m ³ |

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 |
|--|----------------------------|-------------------------------|---------------------------|------------------------------|
| alkyl alcohol ethoxylate | - | - | - | - |
| (2-methoxymethylethoxy)propanol | - | - | - | 36 |
| N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine | - | - | - | 0.04 |
| oleyl bis(2-hydroxyethyl)amine | - | - | - | 0.15 |

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) |
|--|----------------------------|--|---------------------------|---|
| alkyl alcohol ethoxylate | - | - | - | - |
| (2-methoxymethylethoxy)propanol | No data available | - | No data available | 283 |
| N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine | - | - | - | 0.91 |
| oleyl bis(2-hydroxyethyl)amine | - | - | - | 0.42 |

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) |
|--|----------------------------|--|---------------------------|---|
| alkyl alcohol ethoxylate | - | - | - | - |
| (2-methoxymethylethoxy)propanol | No data available | - | No data available | 15 |
| N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine | - | - | - | 0.54 |
| oleyl bis(2-hydroxyethyl)amine | - | - | - | 0.15 |

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 |
|--|----------------------------|-------------------------------|---------------------------|------------------------------|
| alkyl alcohol ethoxylate | - | - | - | - |
| (2-methoxymethylethoxy)propanol | - | - | - | 308 |
| N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine | - | - | - | 2.35 |
| oleyl bis(2-hydroxyethyl)amine | - | - | - | 2.96 |

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 |
|--|----------------------------|-------------------------------|---------------------------|------------------------------|
| alkyl alcohol ethoxylate | - | - | - | - |
| (2-methoxymethylethoxy)propanol | - | - | - | 37.2 |
| N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine | - | - | - | 0.7 |
| oleyl bis(2-hydroxyethyl)amine | - | - | - | 0.522 |

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) |
|--|-----------------------------|------------------------------|---------------------|-------------------------------|
| alkyl alcohol ethoxylate | - | - | - | - |
| (2-methoxymethylethoxy)propanol | 19 | 1.9 | 190 | 4168 |
| N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine | 0.001 | 0.0001 | 0.00015 | 1.33 |
| oleyl bis(2-hydroxyethyl)amine | 0.000214 | 0.0000214 | 0.00087 | 1.5 |

Environmental exposure - PNEC, continued

| Ingredient(s) | Sediment, freshwater (mg/kg) | Sediment, marine (mg/kg) | Soil (mg/kg) | Air (mg/m ³) |
|--|------------------------------|--------------------------|--------------|--------------------------|
| alkyl alcohol ethoxylate | - | - | - | - |
| (2-methoxymethylethoxy)propanol | 70.2 | 7.02 | 2.74 | 190 |
| N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine | 8.5 | 0.85 | 45.34 | - |
| oleyl bis(2-hydroxyethyl)amine | 1.692 | 0.1692 | 5 | - |

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: | Provide a good standard of general ventilation. Ensure that foam equipment does not generate respirable particles. |
| Appropriate organisational controls: | Avoid direct contact and/or splashes where possible. Train personnel. Users are advised to consider national Occupational Exposure Limits or other equivalent values, if available. |

REACH use scenarios considered for the undiluted product:

| | SWED - Sector-specific worker exposure description | LCS | PROC | Duration (min) | ERC |
|--------------------|--|-----|---------|----------------|-------|
| Foam spraying | AISE_SWED_IS_7_4 | IS | PROC 7 | 480 | ERC4 |
| Spray application | AISE_SWED_IS_7_5 | | | | |
| Foam spraying | AISE_SWED_PW_11_1 | PW | PROC 11 | 60 | ERC8a |
| Manual application | AISE_SWED_PW_19_1 | PW | PROC 19 | 480 | ERC8a |

Personal protective equipment

Eye / face protection:

Hand protection:

Safety glasses or goggles (EN 16321 / EN 166).

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.

No special requirements under normal use conditions.

Body protection:

Respiratory protection:

Respiratory protection is not normally required. However, inhalation of vapour, spray, gas or aerosols should be avoided. Trigger spray bottle application: No special requirements under normal use conditions. Apply technical measures to comply with the occupational exposure limits, if

available.

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

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

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

Physical state: Liquid

Colour: Clear , Colourless

Odour: Product specific

Odour threshold: Not applicable

Melting point/freezing point (°C): Not determined

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

Method / remark

Not relevant to classification of this product
See substance data

Substance data, boiling point

| Ingredient(s) | Value (°C) | Method | Atmospheric pressure (hPa) |
|--|-------------------|------------------|----------------------------|
| alkyl alcohol ethoxylate | > 232.2 | Method not given | |
| (2-methoxymethylethoxy)propanol | 189.6 | Method not given | 1013 |
| N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine | No data available | | |
| oleyl bis(2-hydroxyethyl)amine | > 300 | Method not given | |

Method / remark

Flammability (solid, gas): Not applicable to liquids

Flammability (liquid): Not flammable.

Flash point (°C): Not applicable.

Sustained combustion: Not applicable.

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

Lower and upper explosion limit/flammability limit (%): Not determined

See substance data

Substance data, flammability or explosive limits, if available:

| Ingredient(s) | Lower limit (% vol) | Upper limit (% vol) |
|---------------------------------|---------------------|---------------------|
| (2-methoxymethylethoxy)propanol | 1.1 | 14 |

Method / remark

Autoignition temperature: Not determined

Decomposition temperature: Not applicable.

pH: ≈ 10 (neat)

Kinematic viscosity: Not determined

Solubility in / Miscibility with water: Fully miscible

ISO 4316
DM-006 Viscosity - Standard

Substance data, solubility in water

| Ingredient(s) | Value (g/l) | Method | Temperature (°C) |
|--|-------------|------------------|------------------|
| alkyl alcohol ethoxylate | 100 Soluble | Method not given | |
| (2-methoxymethylethoxy)propanol | Soluble | Method not given | 20 |
| N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine | Soluble | | |
| oleyl bis(2-hydroxyethyl)amine | Insoluble | | |

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) |
|--|-------------------|------------------|------------------|
| alkyl alcohol ethoxylate | < 10 | Method not given | 37.8 |
| (2-methoxymethylethoxy)propanol | 37.1 | Method not given | 20 |
| N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine | No data available | | |
| oleyl bis(2-hydroxyethyl)amine | 0.00073 | Method not given | 20 |

Method / remark

Relative density: ≈ 1.00 (20 °C)

Relative vapour density: No data available.

Particle characteristics: No data available.

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.**Oxidising properties:** Not oxidising.**Corrosion to metals:** Not corrosive**9.2.2 Other safety characteristics**

No other relevant information available.

SECTION 10: Stability and reactivity**10.1 Reactivity**

No reactivity hazards known under normal storage and use conditions.

10.2 Chemical stability

Stable under normal storage and use conditions.

10.3 Possibility of hazardous reactions

No hazardous reactions known under normal storage and use conditions.

10.4 Conditions to avoid

None known under normal storage and use conditions.

10.5 Incompatible materials

None known under normal use conditions.

10.6 Hazardous decomposition products

None known under normal storage and use conditions.

SECTION 11: Toxicological information**11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**Mixture data: .**Relevant calculated ATE(s):**

ATE - Oral (mg/kg): >2000

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) |
|--|------------------|-------------------|---------|--------------------|-------------------|------------------|
| alkyl alcohol ethoxylate | LD ₅₀ | 1400 | Rat | Weight of evidence | | 1400 |
| (2-methoxymethylethoxy)propanol | LD ₅₀ | > 5000 | Rat | OECD 401 (EU B.1) | | Not established |
| N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine | LD ₅₀ | 261 | Rat | OECD 401 (EU B.1) | | 261 |
| oleyl bis(2-hydroxyethyl)amine | LD ₅₀ | No data available | Rat | OECD 401 (EU B.1) | | 1260 |

Acute dermal toxicity

| Ingredient(s) | Endpoint | Value (mg/kg) | Species | Method | Exposure time (h) | ATE Dermal (mg/kg) |
|--|------------------|-------------------|---------|--------------------|-------------------|--------------------|
| alkyl alcohol ethoxylate | LD ₅₀ | 2000 - 5000 | Rat | Weight of evidence | | Not established |
| (2-methoxymethylethoxy)propanol | LD ₅₀ | 9510 | Rabbit | Method not given | | Not established |
| N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine | LD ₅₀ | > 2000 | Rat | OECD 402 (EU B.3) | | Not established |
| oleyl bis(2-hydroxyethyl)amine | | No data available | | | | Not established |

Acute inhalative toxicity

| Ingredient(s) | Endpoint | Value (mg/l) | Species | Method | Exposure time (h) |
|---------------------------------|-----------------|--|---------|--------|-------------------|
| alkyl alcohol ethoxylate | | No data available | | | |
| (2-methoxymethylethoxy)propanol | LC ₀ | > 1.667 (vapour) No mortality observed | Rat | | 7 |

| | | | | | |
|--|--|-------------------|--|--|--|
| N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine | | No data available | | | |
| oleyl bis(2-hydroxyethyl)amine | | 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) |
|--|-------------------------------|-------------------------------|---------------------------------|------------------------------|
| alkyl alcohol ethoxylate | Not established | Not established | Not established | Not established |
| (2-methoxymethylethoxy)propanol | Not established | Not established | Not established | Not established |
| N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine | Not established | Not established | Not established | Not established |
| oleyl bis(2-hydroxyethyl)amine | Not established | Not established | Not established | Not established |

Irritation and corrosivity

Skin irritation and corrosivity

| Ingredient(s) | Result | Species | Method | Exposure time |
|--|--------------|---------|--------------------|---------------|
| alkyl alcohol ethoxylate | Not irritant | | Weight of evidence | |
| (2-methoxymethylethoxy)propanol | Not irritant | | Method not given | |
| N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine | Corrosive | Rabbit | OECD 404 (EU B.4) | 4 hour(s) |
| oleyl bis(2-hydroxyethyl)amine | Corrosive | Rabbit | OECD 404 (EU B.4) | |

Eye irritation and corrosivity

| Ingredient(s) | Result | Species | Method | Exposure time |
|--|---------------------------|---------|--------------------------------|---------------|
| alkyl alcohol ethoxylate | Severe damage | Rabbit | Weight of evidence OECD 437 | |
| (2-methoxymethylethoxy)propanol | Not corrosive or irritant | | Method not given | |
| N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine | No data available | | | |
| oleyl bis(2-hydroxyethyl)amine | Severe damage | | | |

Respiratory tract irritation and corrosivity

| Ingredient(s) | Result | Species | Method | Exposure time |
|--|-------------------|---------|--------|---------------|
| alkyl alcohol ethoxylate | No data available | | | |
| (2-methoxymethylethoxy)propanol | No data available | | | |
| N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine | No data available | | | |
| oleyl bis(2-hydroxyethyl)amine | No data available | | | |

Sensitisation

Sensitisation by skin contact

| Ingredient(s) | Result | Species | Method | Exposure time (h) |
|--|-----------------|------------|-------------------------------------|-------------------|
| alkyl alcohol ethoxylate | Not sensitising | | Weight of evidence | |
| (2-methoxymethylethoxy)propanol | Not sensitising | | Method not given | |
| N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine | Not sensitising | Guinea pig | OECD 406 (EU B.6) / Buehler test | |
| oleyl bis(2-hydroxyethyl)amine | Not sensitising | Guinea pig | OECD 406 (EU B.6) / GPMT | |

Sensitisation by inhalation

| Ingredient(s) | Result | Species | Method | Exposure time |
|--|-------------------|---------|--------|---------------|
| alkyl alcohol ethoxylate | No data available | | | |
| (2-methoxymethylethoxy)propanol | No data available | | | |
| N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine | No data available | | | |
| oleyl bis(2-hydroxyethyl)amine | 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) |
|--|---|---|------------------------------|--------------------|
| alkyl alcohol ethoxylate | No evidence for mutagenicity, negative test results | OECD 473 | No data available | |
| (2-methoxymethylethoxy)propanol | No evidence for mutagenicity, negative test results | Method not given | No data available | |
| N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine | No evidence for mutagenicity, negative test results | OECD 471 (EU B.12/13) OECD 473 OECD 476 | No data available | |
| oleyl bis(2-hydroxyethyl)amine | No evidence of genotoxicity, negative test results | OECD 471 (EU B.12/13) OECD 473 OECD 476 | No evidence for mutagenicity | Weight of evidence |

Carcinogenicity

| Ingredient(s) | Effect |
|--|--|
| alkyl alcohol ethoxylate | No evidence for carcinogenicity, negative test results |
| (2-methoxymethylethoxy)propanol | No evidence for carcinogenicity, negative test results |
| N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine | No data available |
| oleyl bis(2-hydroxyethyl)amine | 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 |
|--|----------|-----------------|--------------------|---------|-----------|---------------|---|
| alkyl alcohol ethoxylate | NOAEL | | > 250 | Rat | Not known | | No effects on fertility No developmental toxicity |
| (2-methoxymethylethoxy)propanol | | | No data available | | | | No evidence for reproductive toxicity |
| N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine | | | No data available | | | | No evidence for reproductive toxicity |
| oleyl bis(2-hydroxyethyl)amine | | | - | | | | 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 |
|--|----------|--------------------|---------|--------------------|----------------------|--------------------------------------|
| alkyl alcohol ethoxylate | NOAEL | 80 - 400 | | OECD 408 (EU B.26) | | |
| (2-methoxymethylethoxy)propanol | | No data available | | | | |
| N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine | | No data available | | | | |
| oleyl bis(2-hydroxyethyl)amine | | 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 |
|--|----------|--------------------|---------|--------------------|----------------------|--------------------------------------|
| alkyl alcohol ethoxylate | NOAEL | 80 | | OECD 411 (EU B.28) | 90 | |
| (2-methoxymethylethoxy)propanol | | No data available | | | | |
| N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine | | No data available | | | | |
| oleyl bis(2-hydroxyethyl)amine | | 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 |
|--|----------|--------------------|---------|--------|----------------------|--------------------------------------|
| alkyl alcohol ethoxylate | | No data available | | | | |
| (2-methoxymethylethoxy)propanol | | No data available | | | | |
| N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine | | No data available | | | | |
| oleyl bis(2-hydroxyethyl)amine | | 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 |
|--|----------------|----------|--------------------|---------|--------|---------------|--------------------------------------|--------|
| alkyl alcohol ethoxylate | | | No data available | | | | | |
| (2-methoxymethylethoxy)propanol | | | No data available | | | | | |
| N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine | | | No data available | | | | | |
| oleyl bis(2-hydroxyethyl)amine | | | No data available | | | | | |

STOT-single exposure

| Ingredient(s) | Affected organ(s) |
|--|-------------------|
| alkyl alcohol ethoxylate | No data available |
| (2-methoxymethylethoxy)propanol | No data available |
| N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine | Not applicable |

| | |
|--------------------------------|-------------------|
| oleyl bis(2-hydroxyethyl)amine | No data available |
|--------------------------------|-------------------|

STOT-repeated exposure

| Ingredient(s) | Affected organ(s) |
|--|-------------------|
| alkyl alcohol ethoxylate | No data available |
| (2-methoxymethylethoxy)propanol | No data available |
| N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine | Kidneys |
| oleyl bis(2-hydroxyethyl)amine | 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) |
|--|------------------|--------------|----------------------------|----------------------------|-------------------|
| alkyl alcohol ethoxylate | LC ₅₀ | 5 - 7 | Fish | 92/69/EEC, C1, semi-static | 96 |
| (2-methoxymethylethoxy)propanol | LC ₅₀ | > 1000 | <i>Poecilia reticulata</i> | Method not given | 96 |
| N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine | LC ₅₀ | 0.1 | Fish | OECD 203 (EU C.1) | 96 |
| oleyl bis(2-hydroxyethyl)amine | LC ₅₀ | 0.1 | <i>Brachydanio rerio</i> | OECD 203 (EU C.1) | 96 |

Aquatic short-term toxicity - crustacea

| Ingredient(s) | Endpoint | Value (mg/l) | Species | Method | Exposure time (h) |
|--|------------------|--------------|-----------------------------|-------------------|-------------------|
| alkyl alcohol ethoxylate | EC ₅₀ | 5.3 | <i>Daphnia</i> | 92/69/EEC | 48 |
| (2-methoxymethylethoxy)propanol | EC ₅₀ | 1919 | <i>Daphnia magna</i> Straus | Method not given | 48 |
| N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine | EC ₅₀ | 0.073 | <i>Daphnia magna</i> Straus | OECD 202 (EU C.2) | 48 |
| oleyl bis(2-hydroxyethyl)amine | EC ₅₀ | 0.043 | <i>Daphnia magna</i> Straus | OECD 202 (EU C.2) | 48 |

Aquatic short-term toxicity - algae

| Ingredient(s) | Endpoint | Value (mg/l) | Species | Method | Exposure time (h) |
|--|--------------------------------|--------------|--|-------------------|-------------------|
| alkyl alcohol ethoxylate | EC ₅₀ | 1.4 - 47 | <i>Not specified</i> | 92/69/EEC | 72 |
| (2-methoxymethylethoxy)propanol | EC ₅₀ | > 969 | <i>Selenastrum capricornutum</i> | Method not given | 72 |
| N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine | E _r C ₅₀ | 0.054 | <i>Pseudokirchneriella subcapitata</i> | OECD 201 (EU C.3) | 96 |
| oleyl bis(2-hydroxyethyl)amine | E _r C ₅₀ | 0.0538 | <i>Pseudokirchneriella subcapitata</i> | OECD 201 (EU C.3) | 72 |

Aquatic short-term toxicity - marine species

| Ingredient(s) | Endpoint | Value (mg/l) | Species | Method | Exposure time (days) |
|---------------------------------|----------|-------------------|---------|--------|----------------------|
| alkyl alcohol ethoxylate | | No data available | | | |
| (2-methoxymethylethoxy)propanol | | No data | | | |

| | | | | | |
|--|--|-------------------|--|--|--|
| | | available | | | |
| N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine | | No data available | | | |
| oleyl bis(2-hydroxyethyl)amine | | No data available | | | |

Impact on sewage plants - toxicity to bacteria

| Ingredient(s) | Endpoint | Value (mg/l) | Inoculum | Method | Exposure time |
|--|------------------|--------------|---------------------------|-------------------------------------|---------------|
| alkyl alcohol ethoxylate | EC ₅₀ | > 140 | <i>Bacteria</i> | DIN EN ISO 8192-OECD 209-88/302/EEC | 3 hour(s) |
| (2-methoxymethylethoxy)propanol | EC ₁₀ | 4168 | <i>Pseudomonas putida</i> | Method not given | |
| N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine | EC ₅₀ | 18 | <i>Activated sludge</i> | OECD 209 | 3 hour(s) |
| oleyl bis(2-hydroxyethyl)amine | EC ₅₀ | 128 | <i>Activated sludge</i> | OECD 209 | 3 hour(s) |

Aquatic long-term toxicity

Aquatic long-term toxicity - fish

| Ingredient(s) | Endpoint | Value (mg/l) | Species | Method | Exposure time | Effects observed |
|--|------------------|-------------------|----------------------|------------------|---------------|------------------|
| alkyl alcohol ethoxylate | EC ₁₀ | 8.983 | <i>Not specified</i> | Method not given | 21 day(s) | |
| (2-methoxymethylethoxy)propanol | | No data available | | | | |
| N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine | | No data available | | | | |
| oleyl bis(2-hydroxyethyl)amine | | No data available | | | | |

Aquatic long-term toxicity - crustacea

| Ingredient(s) | Endpoint | Value (mg/l) | Species | Method | Exposure time | Effects observed |
|--|------------------|--------------|----------------------|------------------|---------------|------------------|
| alkyl alcohol ethoxylate | EC ₁₀ | 2.579 | <i>Daphnia sp.</i> | Method not given | 21 day(s) | |
| (2-methoxymethylethoxy)propanol | NOEC | > 0.5 | <i>Daphnia magna</i> | Method not given | 22 day(s) | |
| N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine | NOEC | 0.024 | <i>Daphnia magna</i> | OECD 211 | 21 day(s) | |
| oleyl bis(2-hydroxyethyl)amine | EC ₁₀ | 0.00107 | <i>Daphnia magna</i> | OECD 211 | 21 day(s) | |

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

| Ingredient(s) | Endpoint | Value (mg/kg dw sediment) | Species | Method | Exposure time (days) | Effects observed |
|--|----------|---------------------------|---------|--------|----------------------|------------------|
| alkyl alcohol ethoxylate | | No data available | | | | |
| (2-methoxymethylethoxy)propanol | | No data available | | | | |
| N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine | | No data available | | | | |
| oleyl bis(2-hydroxyethyl)amine | | 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 |
|--|------------------|-----------------------|-----------------------|----------|----------------------|------------------|
| N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine | LD ₅₀ | > 1000 | <i>Eisenia fetida</i> | OECD 207 | 14 | |

Terrestrial toxicity - plants, if available:

Terrestrial toxicity - birds, if available:

Terrestrial toxicity - beneficial insects, if available:

Terrestrial toxicity - soil bacteria, if available:

| Ingredient(s) | Endpoint | Value (mg/kg dw soil) | Species | Method | Exposure time (days) | Effects observed |
|--|----------|-----------------------|---------|--------|----------------------|------------------|
| N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine | NOEC | 1000 | | | 28 | |

12.2 Persistence and degradability**Abiotic degradation**

Abiotic degradation - photodegradation in air, if available:

| Ingredient(s) | Half-life time | Method | Evaluation | Remark |
|---------------------------------|----------------|------------------|-------------------------|--------|
| (2-methoxymethylethoxy)propanol | < 1 day(s) | Method not given | Rapidly photodegradable | |

Abiotic degradation - hydrolysis, if available:

Abiotic degradation - other processes, if available:

Biodegradation

Ready biodegradability - aerobic conditions

| Ingredient(s) | Inoculum | Analytical method | DT ₅₀ | Method | Evaluation |
|--|--------------------------|-------------------|-------------------|-----------|-----------------------|
| alkyl alcohol ethoxylate | | | | OECD 301B | Readily biodegradable |
| (2-methoxymethylethoxy)propanol | | Oxygen depletion | 75 % in 28 day(s) | OECD 301F | Readily biodegradable |
| N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine | | Oxygen depletion | 79 % in 28 day(s) | OECD 301D | Readily biodegradable |
| oleyl bis(2-hydroxyethyl)amine | Activated sludge, aerobe | Oxygen depletion | > 60% | OECD 301D | Readily biodegradable |

Ready biodegradability - anaerobic and marine conditions, if available:

Degradation in relevant environmental compartments, if available:

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

| Ingredient(s) | Value | Method | Evaluation | Remark |
|--|-------------|------------------|------------------------------------|--------|
| alkyl alcohol ethoxylate | 3.11 - 4.19 | Method not given | High potential for bioaccumulation | |
| (2-methoxymethylethoxy)propanol | 1.01 | Method not given | Low potential for bioaccumulation | |
| N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine | -0.66 | | No bioaccumulation expected | |
| oleyl bis(2-hydroxyethyl)amine | 23.4 | Method not given | No bioaccumulation expected | |

Bioconcentration factor (BCF)

| Ingredient(s) | Value | Species | Method | Evaluation | Remark |
|--|-------------------|---------|------------------|------------------------------------|--------|
| alkyl alcohol ethoxylate | < 500 | | Method not given | High potential for bioaccumulation | |
| (2-methoxymethylethoxy)propanol | No data available | | | | |
| N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine | No data available | | | | |
| oleyl bis(2-hydroxyethyl)amine | No data available | | | | |

12.4 Mobility in soil

Adsorption/Desorption to soil or sediment

| Ingredient(s) | Adsorption coefficient Log K _{oc} | Desorption coefficient Log K _{oc} (des) | Method | Soil/sediment type | Evaluation |
|--|--|--|--------|--------------------|--|
| alkyl alcohol ethoxylate | No data available | | | | Potential for mobility in soil, soluble in water |
| (2-methoxymethylethoxy)propanol | No data available | | | | High potential for mobility in soil |
| N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine | No data available | | | | |
| oleyl bis(2-hydroxyethyl)amine | 4.9 - 5.5 | | | | |

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**

The concentrated contents or contaminated packaging should be disposed of by a certified handler

Securegel VG5

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

SECTION 14: Transport information**Land transport (ADR/RID), Sea transport (IMDG), Air transport (ICAO-TI / IATA-DGR)**

- 14.1 UN number or ID number:** Non-dangerous goods
- 14.2 UN proper shipping name:** Non-dangerous goods
- 14.3 Transport hazard class(es):** Non-dangerous goods
- 14.4 Packing group:** Non-dangerous goods
- 14.5 Environmental hazards:** Non-dangerous goods
- 14.6 Special precautions for user:** Non-dangerous goods
- 14.7 Maritime transport in bulk according to IMO instruments:** Non-dangerous goods

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

>= 30 %

Laurylamine Dipropylenediamine

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: MSDS1578

Version: 10.0

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Reason for revision:

Overall design adjusted in accordance with Amendment 2020/878, Annex II of Regulation (EC) No 1907/2006, This data sheet contains changes from the previous version in section(s):, 1, 4, 8, 15, 16

Classification procedure

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

Abbreviations and acronyms:

- AISE - The international Association for Soaps, Detergents and Maintenance Products
- ATE - Acute Toxicity Estimate
- DNEL - Derived No Effect Limit
- EC50 - effective concentration, 50%
- ERC - Environmental release categories
- EUH - CLP Specific hazard statement
- LC50 - Lethal Concentration, 50% / Median Lethal Concentration
- LCS - Life cycle stage
- LD50 - Lethal Dose, 50% / Median Lethal dose
- NOAEL - No observed adverse effect level
- NOEL - No observed effect level
- OECD - Organisation for Economic Cooperation and Development
- PBT - Persistent, Bioaccumulative and Toxic
- PNEC - Predicted No Effect Concentration
- PROC - Process categories
- REACH number - REACH registration number, without supplier specific part
- vPvB - very Persistent and very Bioaccumulative
- H301 - Toxic if swallowed.
- H302 - Harmful if swallowed.
- H314 - Causes severe skin burns and eye damage.
- H318 - Causes serious eye damage.
- H373 - May cause damage to organs through prolonged or repeated exposure.
- H400 - Very toxic to aquatic life.
- H410 - Very toxic to aquatic life with long lasting effects.

End of Safety Data Sheet