



Suma Multi Conc D2 Conc

Revision: 2022-11-22

Version: 02.1

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

1.1 Product identifier

Trade name: Suma Multi Conc D2 Conc

UFI: 5YS1-S0KV-900J-YYDU

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

Product use:

Kitchen surface cleaner.
Hard surface cleaner.

Uses advised against:

For professional use only.
Uses other than those identified are not recommended.

SWED - Sector-specific worker exposure description :

AISE_SWED_PW_8a_1
AISE_SWED_PW_8b_1
AISE_SWED_PW_10_1
AISE_SWED_PW_11_1
AISE_SWED_PW_19_1

1.3 Details of the supplier of the safety data sheet

Diversey Europe Operations BV, Maarssenbroeksedijk 2, 3542DN Utrecht, The Netherlands

Contact details

Tandur Hf.
Hesthålsi 12, 110 Reykjavik
Tel. 5101200, Email: tandur@tandur.is

1.4 Emergency telephone number

Seek medical advice (show the label or safety data sheet where possible).
Poison Center: (+354) 543-2222
Emergency services: 112.

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Skin Corr. 1B (H314)
Acute Tox. 4 (H302)
STOT SE 3 (H335)
Eye Dam. 1 (H318)

2.2 Label elements



Signal word: Danger.

Contains alkyl alcohol ethoxylate (Trideceth 8), 2-aminoethanol (Ethanalamine)

Hazard statements:

H302 - Harmful if swallowed.
H314 - Causes severe skin burns and eye damage.
H335 - May cause respiratory irritation.

Precautionary statements:

P260 - Do not breathe vapours.

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P280 - Wear protective gloves, protective clothing and eye or face protection.

P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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

2.3 Other hazards

No other hazards known.

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] | 69011-36-5 | [4] | Acute Tox. 4 (H302) Eye Dam. 1 (H318) | | 20-30 |
| isotridecanol, ethoxylated | [4] | 69011-36-5 | [4] | Acute Tox. 4 (H302) Eye Dam. 1 (H318) | | 3-10 |
| 2-aminoethanol | 205-483-3 | 141-43-5 | 01-2119486455-28 | Skin Corr. 1B (H314) Acute Tox. 4 (H302) Acute Tox. 4 (H312) Acute Tox. 4 (H332) STOT SE 3 (H335) Eye Dam. 1 (H318) Aquatic Chronic 3 (H412) | | 3-10 |
| benzenesulphonic acid, mono-C10-13-alkyl derivs., compds. with ethanolamine | 287-335-8 | 85480-55-3 | [1] | Acute Tox. 4 (H302) Skin Irrit. 2 (H315) Eye Dam. 1 (H318) | | 3-10 |
| 1-methoxy-2-propanol | 203-539-1 | 107-98-2 | 01-2119457435-35 | Flam. Liq. 3 (H226) STOT SE 3 (H336) | | 1-3 |
| propan-2-ol | 200-661-7 | 67-63-0 | 01-2119457558-25 | Flam. Liq. 2 (H225) STOT SE 3 (H336) Eye Irrit. 2 (H319) | | 1-3 |

Specific concentration limits

isotridecanol, ethoxylated:

- Eye Dam. 1 (H318) >= 10% > Eye Irrit. 2 (H319) >= 1%

2-aminoethanol:

- STOT SE 3 (H335) >= 5%

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

ATE, if available, are listed in section 11.

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

[4] Exempted: polymer. See Article 2(9) of Regulation (EC) No 1907/2006.

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

SECTION 4: First aid measures

4.1 Description of first aid measures

General Information:

Symptoms of intoxication may even occur after several hours. It is recommended to continue medical observation for at least 48 hours after the incident. 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. Call a POISON CENTRE, doctor or physician 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. 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:

May cause respiratory irritation.

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

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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**

Ensure adequate ventilation. Do not breathe dust or vapour. 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.

6.3 Methods and material for containment and cleaning up

Ensure adequate ventilation. Dyke to collect large liquid spills. 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:**

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 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. Do not breathe vapours. Do not breathe spray. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. 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) | Long term value(s) | Short term value(s) |
|----------------------|----------------------------------|----------------------------------|
| 2-aminoethanol | 1 ppm 2.5 mg/m ³ | 3 ppm 7.6 mg/m ³ |
| 1-methoxy-2-propanol | 50 ppm 185 mg/m ³ | 150 ppm 568 mg/m ³ |
| propan-2-ol | 200 ppm 490 mg/m ³ | |

Biological limit values, if available:

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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 | - | - | - | - |
| isotridecanol, ethoxylated | - | - | - | - |
| 2-aminoethanol | - | - | - | 1.5 |
| benzenesulphonic acid, mono-C10-13-alkyl derivs., compds. with ethanolamine | No data available | No data available | No data available | No data available |
| 1-methoxy-2-propanol | - | - | - | 33 |
| propan-2-ol | - | - | - | 26 |

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 | - | - | - | - |
| isotridecanol, ethoxylated | - | - | - | - |
| 2-aminoethanol | No data available | - | No data available | 3 |
| benzenesulphonic acid, mono-C10-13-alkyl derivs., compds. with ethanolamine | No data available | No data available | No data available | No data available |
| 1-methoxy-2-propanol | No data available | - | No data available | 183 |
| propan-2-ol | - | - | - | 888 |

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 | - | - | - | - |
| isotridecanol, ethoxylated | - | - | - | - |
| 2-aminoethanol | No data available | - | No data available | 1.5 |
| benzenesulphonic acid, mono-C10-13-alkyl derivs., compds. with ethanolamine | No data available | No data available | No data available | No data available |
| 1-methoxy-2-propanol | No data available | - | No data available | 78 |
| propan-2-ol | - | - | - | 319 |

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 | - | - | - | - |
| isotridecanol, ethoxylated | - | - | - | - |
| 2-aminoethanol | - | - | 0.51 | 1 |
| benzenesulphonic acid, mono-C10-13-alkyl derivs., compds. with ethanolamine | No data available | No data available | No data available | No data available |
| 1-methoxy-2-propanol | 553.5 | 183 | - | 369 |
| propan-2-ol | - | - | - | 500 |

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 | - | - | - | - |
| isotridecanol, ethoxylated | - | - | - | - |
| 2-aminoethanol | - | - | 0.28 | 0.18 |
| benzenesulphonic acid, mono-C10-13-alkyl derivs., compds. with ethanolamine | No data available | No data available | No data available | No data available |
| 1-methoxy-2-propanol | - | - | - | 43.9 |
| propan-2-ol | - | - | - | 89 |

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 | - | - | - | - |
| isotridecanol, ethoxylated | - | - | - | - |
| 2-aminoethanol | 0.07 | 0.007 | 0.028 | 100 |
| benzenesulphonic acid, mono-C10-13-alkyl derivs., compds. with ethanolamine | No data available | No data available | No data available | No data available |

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| | | | | |
|----------------------|-------|-------|-------|------|
| 1-methoxy-2-propanol | 10 | 1 | 100 | 100 |
| propan-2-ol | 140.9 | 140.9 | 140.9 | 2251 |

Environmental exposure - PNEC, continued

| Ingredient(s) | Sediment, freshwater (mg/kg) | Sediment, marine (mg/kg) | Soil (mg/kg) | Air (mg/m ³) |
|---|------------------------------|--------------------------|-------------------|--------------------------|
| alkyl alcohol ethoxylate | - | - | - | - |
| isotridecanol, ethoxylated | - | - | - | - |
| 2-aminoethanol | 0.375 | 0.0357 | 1.29 | - |
| benzenesulphonic acid, mono-C10-13-alkyl derivs., compds. with ethanolamine | No data available | No data available | No data available | No data available |
| 1-methoxy-2-propanol | 52.3 | 5.2 | 4.59 | - |
| propan-2-ol | 552 | 552 | 28 | - |

8.2 Exposure controls

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

Recommended safety measures for handling the undiluted product:

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

REACH use scenarios considered for the undiluted product:

| | SWED - Sector-specific worker exposure description | LCS | PROC | Duration (min) | ERC |
|---------------------------------|--|-----|---------|----------------|-------|
| Manual transfer and dilution | AISE_SWED_PW_8a_1 | PW | PROC 8a | 60 | ERC8a |
| Automatic transfer and dilution | AISE_SWED_PW_8b_1 | PW | PROC 8b | 60 | ERC8b |

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:

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): 0.7

Appropriate engineering controls: Provide a good standard of general ventilation.

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

REACH use scenarios considered for the diluted product:

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

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Personal protective equipment

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

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

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

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

Physical state: Liquid
Colour: Clear , Dark , Blue
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 | > 200 | Method not given | |
| isotridecanol, ethoxylated | No data available | | |
| 2-aminoethanol | 169-171 | Method not given | 1013 |
| benzenesulphonic acid, mono-C10-13-alkyl derivs., compds. with ethanolamine | No data available | | |
| 1-methoxy-2-propanol | 117-125 | Method not given | 1013 |
| propan-2-ol | 82 | Method not given | 1013 |

Flammability (solid, gas): Not applicable to liquids
Flammability (liquid): Not flammable.
Flash point (°C): > 60 °C
Sustained combustion: The product does not sustain combustion
 (UN Manual of Tests and Criteria, section 32, L.2)
Lower and upper explosion limit/flammability limit (%): Not determined

Method / remark
 closed cup
 Weight of evidence
 See substance data

Substance data, flammability or explosive limits, if available:

| Ingredient(s) | Lower limit (% vol) | Upper limit (% vol) |
|----------------------------|---------------------|---------------------|
| isotridecanol, ethoxylated | [-] | [-] |
| 2-aminoethanol | 3.4 | 27 |
| 1-methoxy-2-propanol | 1.48 | 13.7 |
| propan-2-ol | 2 | 13 |

Autoignition temperature: Not determined
Decomposition temperature: Not applicable.
pH: ≈ 11 (neat)
Dilution pH: ≈ 10 (1.5 %)
Kinematic viscosity: ≈ 70 mPa.s (20 °C)
Solubility in / Miscibility with water: Fully miscible

Method / remark
 ISO 4316
 ISO 4316

Substance data, solubility in water

| Ingredient(s) | Value (g/l) | Method | Temperature (°C) |
|---|-------------------|------------------|------------------|
| alkyl alcohol ethoxylate | Soluble | Method not given | 20 |
| isotridecanol, ethoxylated | Soluble | Method not given | 20 |
| 2-aminoethanol | 1000 | Method not given | 20 |
| benzenesulphonic acid, mono-C10-13-alkyl derivs., compds. with ethanolamine | No data available | | |
| 1-methoxy-2-propanol | 2000 Soluble | Method not given | 20 |
| propan-2-ol | Soluble | Method not given | |

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) |
|---|-------------------|------------------|------------------|
| alkyl alcohol ethoxylate | Negligible | Method not given | 20-25 |
| isotridecanol, ethoxylated | < 10 | | 20 |
| 2-aminoethanol | 50 | Method not given | 20 |
| benzenesulphonic acid, mono-C10-13-alkyl derivs., compds. with ethanolamine | No data available | | |
| 1-methoxy-2-propanol | 1170 | Method not given | 20 |
| propan-2-ol | 4200 | Method not given | 20 |

Method / remark

OECD 109 (EU A.3)

Not relevant to classification of this product

Not applicable to liquids.

Relative density: ≈ 1.05 (20 °C)**Relative vapour density:** No data available.**Particle characteristics:** No data available.**9.2 Other information****9.2.1 Information with regard to physical hazard classes****Explosive properties:** Not explosive. Vapours may form explosive mixtures with air.**Oxidising properties:** Not oxidising.**Corrosion to metals:** Not corrosive**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 toxicological effects**

Mixture data:.

Relevant calculated ATE(s):

ATE - Oral (mg/kg): 1400

ATE - Dermal (mg/kg): >2000

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

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

Acute toxicity

Acute oral toxicity

| Ingredient(s) | Endpoint | Value (mg/kg) | Species | Method | Exposure time (h) | ATE (mg/kg) |
|---|------------------|-------------------|---------|------------------------|-------------------|-----------------|
| alkyl alcohol ethoxylate | LD ₅₀ | > 300-2000 | Rat | OECD 423 (EU B.1 tris) | | 2200 |
| isotridecanol, ethoxylated | LD ₅₀ | > 300-2000 | Rat | Weight of evidence | | 6100 |
| 2-aminoethanol | LD ₅₀ | 1089 | Rat | OECD 401 (EU B.1) | | 14000 |
| benzenesulphonic acid, mono-C10-13-alkyl derivs., compds. with ethanolamine | | No data available | | | | 9200 |
| 1-methoxy-2-propanol | LD ₅₀ | > 5000 | Rat | OECD 401 (EU B.1) | | 140000 |
| propan-2-ol | LD ₅₀ | 5840 | Rat | OECD 401 (EU B.1) | | Not established |

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Acute dermal toxicity

| Ingredient(s) | Endpoint | Value (mg/kg) | Species | Method | Exposure time (h) | ATE (mg/kg) |
|---|------------------|-------------------|---------|--------------------|-------------------|-----------------|
| alkyl alcohol ethoxylate | LD ₅₀ | > 2000 | Rabbit | Method not given | | Not established |
| isotridecanol, ethoxylated | LD ₅₀ | > 2000 | Rabbit | Weight of evidence | | Not established |
| 2-aminoethanol | LD ₅₀ | 2504 | Rabbit | OECD 402 (EU B.3) | | 14000 |
| benzenesulphonic acid, mono-C10-13-alkyl derivs., compds. with ethanolamine | | No data available | | | | Not established |
| 1-methoxy-2-propanol | LD ₅₀ | > 15800 | Rabbit | OECD 402 (EU B.3) | | Not established |
| propan-2-ol | LD ₅₀ | > 2000 | Rabbit | Method not given | | Not established |

Acute inhalative toxicity

| Ingredient(s) | Endpoint | Value (mg/l) | Species | Method | Exposure time (h) |
|---|------------------|-----------------------------|---------|-------------------|-------------------|
| alkyl alcohol ethoxylate | | No data available | | | |
| isotridecanol, ethoxylated | | No data available | | | |
| 2-aminoethanol | LC ₅₀ | > 1.4 No mortality observed | Rat | Method not given | 4 |
| benzenesulphonic acid, mono-C10-13-alkyl derivs., compds. with ethanolamine | | No data available | | | |
| 1-methoxy-2-propanol | LC _{Lo} | > 25.5 | Rat | OECD 403 (EU B.2) | 4 |
| propan-2-ol | LC ₅₀ | > 25 (vapour) | Rat | OECD 403 (EU B.2) | 6 |

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 |
| isotridecanol, ethoxylated | Not established | Not established | Not established | Not established |
| 2-aminoethanol | Not established | Not established | 140 | Not established |
| benzenesulphonic acid, mono-C10-13-alkyl derivs., compds. with ethanolamine | Not established | Not established | Not established | Not established |
| 1-methoxy-2-propanol | Not established | Not established | Not established | Not established |
| propan-2-ol | 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 | Rabbit | OECD 404 (EU B.4) | |
| isotridecanol, ethoxylated | Not irritant | Rabbit | OECD 404 (EU B.4) | |
| 2-aminoethanol | Corrosive | Rabbit | OECD 404 (EU B.4) | |
| benzenesulphonic acid, mono-C10-13-alkyl derivs., compds. with ethanolamine | No data available | | | |
| 1-methoxy-2-propanol | Not irritant | Rat | OECD 404 (EU B.4) | |
| propan-2-ol | Not irritant | Rabbit | OECD 404 (EU B.4) | |

Eye irritation and corrosivity

| Ingredient(s) | Result | Species | Method | Exposure time |
|---|---------------------------|---------|-------------------|---------------|
| alkyl alcohol ethoxylate | Severe damage | Rabbit | Method not given | |
| isotridecanol, ethoxylated | Severe damage | Rabbit | OECD 405 (EU B.5) | |
| 2-aminoethanol | Severe damage | Rabbit | OECD 405 (EU B.5) | |
| benzenesulphonic acid, mono-C10-13-alkyl derivs., compds. with ethanolamine | No data available | | | |
| 1-methoxy-2-propanol | Not corrosive or irritant | Rabbit | OECD 405 (EU B.5) | |
| propan-2-ol | Irritant | Rabbit | OECD 405 (EU B.5) | |

Respiratory tract irritation and corrosivity

| Ingredient(s) | Result | Species | Method | Exposure time |
|---|---------------------------------|---------|------------------|---------------|
| alkyl alcohol ethoxylate | No data available | | | |
| isotridecanol, ethoxylated | No data available | | | |
| 2-aminoethanol | Irritating to respiratory tract | | Method not given | |
| benzenesulphonic acid, mono-C10-13-alkyl derivs., compds. with ethanolamine | No data available | | | |
| 1-methoxy-2-propanol | No data available | | | |
| propan-2-ol | No data available | | | |

Sensitisation

Sensitisation by skin contact

| Ingredient(s) | Result | Species | Method | Exposure time (h) |
|---|-------------------|------------|----------------------------------|-------------------|
| alkyl alcohol ethoxylate | Not sensitising | Guinea pig | Method not given | |
| isotridecanol, ethoxylated | Not sensitising | Guinea pig | Method not given | |
| 2-aminoethanol | Not sensitising | Guinea pig | OECD 406 (EU B.6) / GPMT | |
| benzenesulphonic acid, mono-C10-13-alkyl derivs., compds. with ethanolamine | No data available | | | |
| 1-methoxy-2-propanol | Not sensitising | Guinea pig | Method not given | |
| propan-2-ol | Not sensitising | Guinea pig | OECD 406 (EU B.6) / Buehler test | |

Sensitisation by inhalation

| Ingredient(s) | Result | Species | Method | Exposure time |
|---|-------------------|---------|--------|---------------|
| alkyl alcohol ethoxylate | No data available | | | |
| isotridecanol, ethoxylated | No data available | | | |
| 2-aminoethanol | No data available | | | |
| benzenesulphonic acid, mono-C10-13-alkyl derivs., compds. with ethanolamine | No data available | | | |
| 1-methoxy-2-propanol | No data available | | | |
| propan-2-ol | 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 of genotoxicity, negative test results | Method not given | No evidence of genotoxicity, negative test results | Method not given |
| isotridecanol, ethoxylated | No evidence for mutagenicity | Method not given Weight of evidence | No evidence for mutagenicity, negative test results | Method not given Weight of evidence |
| 2-aminoethanol | No evidence for mutagenicity, negative test results | OECD 471 (EU B.12/13) OECD 476 (Mouse lymphoma) | No evidence for mutagenicity, negative test results | OECD 474 (EU B.12) |
| benzenesulphonic acid, mono-C10-13-alkyl derivs., compds. with ethanolamine | No data available | | No data available | |
| 1-methoxy-2-propanol | No evidence for mutagenicity, negative test results | Method not given | No data available | |
| propan-2-ol | No evidence for mutagenicity, negative test results 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) |

Carcinogenicity

| Ingredient(s) | Effect |
|---|--|
| alkyl alcohol ethoxylate | No evidence for carcinogenicity, weight-of-evidence |
| isotridecanol, ethoxylated | No evidence for carcinogenicity, weight-of-evidence |
| 2-aminoethanol | No evidence for carcinogenicity, weight-of-evidence |
| benzenesulphonic acid, mono-C10-13-alkyl derivs., compds. with ethanolamine | No data available |
| 1-methoxy-2-propanol | No evidence for carcinogenicity, negative test results |
| propan-2-ol | No evidence for carcinogenicity, negative test results |

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 | Teratogenic effects | > 50 | Rat | Not known | | No known significant effects or critical hazards |
| isotridecanol, ethoxylated | NOAEL | Maternal toxicity | > 250 | Rat | Weight of evidence | | Not toxic for reproduction |
| 2-aminoethanol | NOAEL | Developmental toxicity | > 75 | Rabbit | OECD 414 (EU B.31), oral | 6 - 15 day(s) | No evidence for developmental toxicity No evidence for reproductive toxicity |
| benzenesulphonic acid, mono-C10-13-alkyl derivs., compds. with ethanolamine | | | No data available | | | | |
| 1-methoxy-2-propanol | | | No data available | | | | No evidence for reproductive toxicity |
| propan-2-ol | | | 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 |
|---------------|----------|--------------------|---------|--------|----------------------|--------------------------------------|
| | | | | | | |

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| | | | | | | |
|---|-------|-------------------|-----|--|----|--|
| alkyl alcohol ethoxylate | | No data available | | | | |
| isotridecanol, ethoxylated | | No data available | | | | |
| 2-aminoethanol | NOAEL | 300 | Rat | | 75 | |
| benzenesulphonic acid, mono-C10-13-alkyl derivs., compds. with ethanolamine | | No data available | | | | |
| 1-methoxy-2-propanol | | No data available | | | | |
| propan-2-ol | | 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 | | No data available | | | | |
| isotridecanol, ethoxylated | | No data available | | | | |
| 2-aminoethanol | | No data available | | | | |
| benzenesulphonic acid, mono-C10-13-alkyl derivs., compds. with ethanolamine | | No data available | | | | |
| 1-methoxy-2-propanol | | No data available | | | | |
| propan-2-ol | | 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 | | | | |
| isotridecanol, ethoxylated | | No data available | | | | |
| 2-aminoethanol | | No data available | | | | |
| benzenesulphonic acid, mono-C10-13-alkyl derivs., compds. with ethanolamine | | No data available | | | | |
| 1-methoxy-2-propanol | | No data available | | | | |
| propan-2-ol | | 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 | Oral | NOAEL | 50 | Rat | Method not given | 24 month(s) | Effects on organ weights | |
| isotridecanol, ethoxylated | Oral | NOAEL | 50 | Rat | Weight of evidence | 24 month(s) | Effects on body weight and food/water consumption Effects on organ weights | |
| 2-aminoethanol | | | No data available | | | | | |
| benzenesulphonic acid, mono-C10-13-alkyl derivs., compds. with ethanolamine | | | No data available | | | | | |
| 1-methoxy-2-propanol | | | No data available | | | | | |
| propan-2-ol | | | No data available | | | | | |

STOT-single exposure

| Ingredient(s) | Affected organ(s) |
|---|------------------------|
| alkyl alcohol ethoxylate | Not applicable |
| isotridecanol, ethoxylated | Not applicable |
| 2-aminoethanol | Respiratory tract |
| benzenesulphonic acid, mono-C10-13-alkyl derivs., compds. with ethanolamine | No data available |
| 1-methoxy-2-propanol | No data available |
| propan-2-ol | Central nervous system |

STOT-repeated exposure

| Ingredient(s) | Affected organ(s) |
|----------------------------|-------------------|
| alkyl alcohol ethoxylate | Not applicable |
| isotridecanol, ethoxylated | Not applicable |

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| | |
|---|-------------------|
| 2-aminoethanol | No data available |
| benzenesulphonic acid, mono-C10-13-alkyl derivs., compds. with ethanolamine | No data available |
| 1-methoxy-2-propanol | Kidneys |
| propan-2-ol | 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 | 1 - 10 | <i>Cyprinus carpio</i> | OECD 203 (EU C.1) | 96 |
| isotridecanol, ethoxylated | LC ₅₀ | > 10 - 100 | <i>Cyprinus carpio</i> | OECD 203 (EU C.1) Weight of evidence | 96 |
| 2-aminoethanol | LC ₅₀ | 349 | <i>Cyprinus carpio</i> | OECD 203, semi-static | 96 |
| benzenesulphonic acid, mono-C10-13-alkyl derivs., compds. with ethanolamine | | No data available | | | |
| 1-methoxy-2-propanol | LC ₅₀ | > 1000 | <i>Oncorhynchus mykiss</i> | Method not given | 96 |
| propan-2-ol | LC ₅₀ | > 100 | <i>Pimephales promelas</i> | Method not given | 48 |

Aquatic short-term toxicity - crustacea

| Ingredient(s) | Endpoint | Value (mg/l) | Species | Method | Exposure time (h) |
|---|------------------|-------------------|-----------------------------|------------------|-------------------|
| alkyl alcohol ethoxylate | EC ₅₀ | 1 - 10 | <i>Daphnia magna Straus</i> | OECD 202, static | 48 |
| isotridecanol, ethoxylated | EC ₅₀ | > 10 - 100 | <i>Daphnia magna Straus</i> | OECD 202, static | 48 |
| 2-aminoethanol | EC ₅₀ | 27.04 | <i>Daphnia magna Straus</i> | OECD 202, static | 48 |
| benzenesulphonic acid, mono-C10-13-alkyl derivs., compds. with ethanolamine | | No data available | | | |
| 1-methoxy-2-propanol | EC ₅₀ | 21100 - 25900 | <i>Daphnia magna Straus</i> | Method not given | 48 |
| propan-2-ol | EC ₅₀ | > 100 | <i>Daphnia magna Straus</i> | Method not given | 48 |

Aquatic short-term toxicity - algae

| Ingredient(s) | Endpoint | Value (mg/l) | Species | Method | Exposure time (h) |
|---|------------------|-------------------|--|--|-------------------|
| alkyl alcohol ethoxylate | EC ₅₀ | 1 - 10 | <i>Desmodesmus subspicatus</i> | OECD 201, static | 72 |
| isotridecanol, ethoxylated | EC ₅₀ | > 10 - 100 | <i>Desmodesmus subspicatus</i> | OECD 201, static Weight of evidence | 72 |
| 2-aminoethanol | EC ₅₀ | 2.8 | <i>Selenastrum capricornutum</i> | OECD 201 (EU C.3) | 72 |
| benzenesulphonic acid, mono-C10-13-alkyl derivs., compds. with ethanolamine | | No data available | | | |
| 1-methoxy-2-propanol | EC ₅₀ | > 1000 | <i>Pseudokirchneriella subcapitata</i> | Method not given | 168 |
| propan-2-ol | EC ₅₀ | > 100 | <i>Scenedesmus quadricauda</i> | Method not given | 72 |

Aquatic short-term toxicity - marine species

| Ingredient(s) | Endpoint | Value (mg/l) | Species | Method | Exposure time (days) |
|---|----------|-------------------|---------|--------|----------------------|
| alkyl alcohol ethoxylate | | No data available | | | |
| isotridecanol, ethoxylated | | No data available | | | |
| 2-aminoethanol | | No data available | | | |
| benzenesulphonic acid, mono-C10-13-alkyl derivs., compds. with ethanolamine | | No data available | | | |
| 1-methoxy-2-propanol | | No data available | | | |
| propan-2-ol | | No data available | | | |

Impact on sewage plants - toxicity to bacteria

| Ingredient(s) | Endpoint | Value (mg/l) | Inoculum | Method | Exposure time |
|---|------------------|-------------------|------------------|-------------------------------------|---------------|
| alkyl alcohol ethoxylate | EC ₁₀ | > 10000 | Activated sludge | DIN 38412 / Part 8 | 17 hour(s) |
| isotridecanol, ethoxylated | EC ₁₀ | > 10000 | Bacteria | DIN 38412 / Part 8 | 17 hour(s) |
| 2-aminoethanol | EC ₅₀ | > 1000 | Activated sludge | DIN EN ISO 8192-OECD 209-88/302/EEC | 3 hour(s) |
| benzenesulphonic acid, mono-C10-13-alkyl derivs., compds. with ethanolamine | | No data available | | | |
| 1-methoxy-2-propanol | EC ₅₀ | 1000 | Activated sludge | Method not given | 3 hour(s) |
| propan-2-ol | EC ₅₀ | > 1000 | Activated sludge | Method not given | |

Aquatic long-term toxicity

Aquatic long-term toxicity - fish

| Ingredient(s) | Endpoint | Value (mg/l) | Species | Method | Exposure time | Effects observed |
|---|----------|-------------------|------------------------|----------|---------------|------------------|
| alkyl alcohol ethoxylate | | No data available | | | | |
| isotridecanol, ethoxylated | | No data available | | | | |
| 2-aminoethanol | NOEC | 1.2 | <i>Oryzias latipes</i> | OECD 210 | 30 day(s) | |
| benzenesulphonic acid, mono-C10-13-alkyl derivs., compds. with ethanolamine | | No data available | | | | |
| 1-methoxy-2-propanol | | No data available | | | | |
| propan-2-ol | | No data available | | | | |

Aquatic long-term toxicity - crustacea

| Ingredient(s) | Endpoint | Value (mg/l) | Species | Method | Exposure time | Effects observed |
|---|------------------|-------------------|----------------------|-----------------------|---------------|-------------------------|
| alkyl alcohol ethoxylate | | No data available | | | | |
| isotridecanol, ethoxylated | EC ₁₀ | 2.6 | <i>Daphnia magna</i> | OECD 211, semi-static | 21 day(s) | Effects on reproduction |
| 2-aminoethanol | NOEC | 0.85 | <i>Daphnia magna</i> | OECD 202 | 21 day(s) | |
| benzenesulphonic acid, mono-C10-13-alkyl derivs., compds. with ethanolamine | | No data available | | | | |
| 1-methoxy-2-propanol | | No data available | | | | |
| propan-2-ol | | 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 |
|---|----------|---------------------------|---------|--------|----------------------|------------------|
| alkyl alcohol ethoxylate | | No data available | | | | |
| isotridecanol, ethoxylated | | No data available | | | | |
| 2-aminoethanol | | No data available | | | | |
| benzenesulphonic acid, mono-C10-13-alkyl derivs., compds. with ethanolamine | | No data available | | | | |

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| | | | | | | |
|----------------------|--|-------------------|--|--|--|--|
| 1-methoxy-2-propanol | | No data available | | | | |
| propan-2-ol | | No data available | | | | |

Terrestrial toxicity

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

| Ingredient(s) | Endpoint | Value (mg/kg dw soil) | Species | Method | Exposure time (days) | Effects observed |
|----------------------------|----------|-----------------------|-----------------------|--------|----------------------|------------------|
| alkyl alcohol ethoxylate | NOEC | 220 | <i>Eisenia fetida</i> | | | |
| isotridecanol, ethoxylated | NOEC | 220 | <i>Eisenia fetida</i> | | | |
| 2-aminoethanol | | No data available | | | | |
| propan-2-ol | | No data available | | | | |

Terrestrial toxicity - plants, if available:

| Ingredient(s) | Endpoint | Value (mg/kg dw soil) | Species | Method | Exposure time (days) | Effects observed |
|----------------------------|----------|-----------------------|-------------------------|----------|----------------------|------------------|
| alkyl alcohol ethoxylate | NOEC | 10 | <i>Lepidium sativum</i> | OECD 208 | | |
| isotridecanol, ethoxylated | NOEC | 10 | <i>Lepidium sativum</i> | OECD 208 | | |
| propan-2-ol | | No data available | | | | |

Terrestrial toxicity - birds, if available:

| Ingredient(s) | Endpoint | Value | Species | Method | Exposure time (days) | Effects observed |
|----------------------------|----------|-------------------|---------|--------|----------------------|------------------|
| isotridecanol, ethoxylated | | No data available | | | | |
| 2-aminoethanol | | No data available | | | | |
| propan-2-ol | | No data available | | | | |

Terrestrial toxicity - beneficial insects, if available:

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

Terrestrial toxicity - soil bacteria, if available:

| Ingredient(s) | Endpoint | Value (mg/kg dw soil) | Species | Method | Exposure time (days) | Effects observed |
|----------------------------|----------|-----------------------|---------|--------|----------------------|------------------|
| isotridecanol, ethoxylated | | No data available | | | | |
| 2-aminoethanol | | No data available | | | | |
| propan-2-ol | | 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 |
|----------------------------|-------------------|------------------|-------------------------|--------|
| isotridecanol, ethoxylated | No data available | | | |
| 1-methoxy-2-propanol | < 1 day(s) | Method not given | Rapidly photodegradable | |
| propan-2-ol | No data available | | | |

Abiotic degradation - hydrolysis, if available:

| Ingredient(s) | Half-life time in fresh water | Method | Evaluation | Remark |
|----------------------------|-------------------------------|--------|------------|--------|
| isotridecanol, ethoxylated | No data available | | | |
| propan-2-ol | No data available | | | |

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Abiotic degradation - other processes, if available:

| Ingredient(s) | Type | Half-life time | Method | Evaluation | Remark |
|----------------------------|------|-------------------|--------|------------|--------|
| isotridecanol, ethoxylated | | No data available | | | |
| propan-2-ol | | No data available | | | |

Biodegradation

Ready biodegradability - aerobic conditions

| Ingredient(s) | Inoculum | Analytical method | DT ₅₀ | Method | Evaluation |
|---|--------------------------|----------------------------|---------------------|-----------|----------------------------|
| alkyl alcohol ethoxylate | Activated sludge, aerobe | CO ₂ production | > 60 % in 28 day(s) | OECD 301B | Readily biodegradable |
| isotridecanol, ethoxylated | | CO ₂ production | > 60 % in 28 day(s) | OECD 301B | Readily biodegradable |
| 2-aminoethanol | | DOC reduction | > 90 % in 21 day(s) | OECD 301A | Readily biodegradable |
| benzenesulphonic acid, mono-C10-13-alkyl derivs., compds. with ethanolamine | Activated sludge, aerobe | | | OECD 301D | Not readily biodegradable. |
| 1-methoxy-2-propanol | | | 96 % in 28 day(s) | OECD 301E | Readily biodegradable |
| propan-2-ol | | | 95 % in 21 day(s) | OECD 301E | Readily biodegradable |

Ready biodegradability - anaerobic and marine conditions, if available:

| Ingredient(s) | Medium & Type | Analytical method | DT ₅₀ | Method | Evaluation |
|----------------------------|---------------|-------------------|------------------|--------|-------------------|
| isotridecanol, ethoxylated | | | | | No data available |
| propan-2-ol | | | | | No data available |

Degradation in relevant environmental compartments, if available:

| Ingredient(s) | Medium & Type | Analytical method | DT ₅₀ | Method | Evaluation |
|----------------------------|---------------|-------------------|------------------|--------|-------------------|
| isotridecanol, ethoxylated | | | | | No data available |
| propan-2-ol | | | | | No data available |

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

| Ingredient(s) | Value | Method | Evaluation | Remark |
|---|-------------------|------------------|-----------------------------------|--------|
| alkyl alcohol ethoxylate | 4.09 | QSAR | No bioaccumulation expected | |
| isotridecanol, ethoxylated | No data available | | No bioaccumulation expected | |
| 2-aminoethanol | - 1.91 | OECD 107 | No bioaccumulation expected | |
| benzenesulphonic acid, mono-C10-13-alkyl derivs., compds. with ethanolamine | No data available | | | |
| 1-methoxy-2-propanol | 0.37 | Method not given | Low potential for bioaccumulation | |
| propan-2-ol | 0.05 | OECD 107 | No bioaccumulation expected | |

Bioconcentration factor (BCF)

| Ingredient(s) | Value | Species | Method | Evaluation | Remark |
|---|-------------------|---------|------------------|-----------------------------------|--------|
| alkyl alcohol ethoxylate | - | | | No bioaccumulation expected | |
| isotridecanol, ethoxylated | No data available | | | No bioaccumulation expected | |
| 2-aminoethanol | No data available | | | | |
| benzenesulphonic acid, mono-C10-13-alkyl derivs., compds. with ethanolamine | No data available | | | | |
| 1-methoxy-2-propanol | 3.2 | | Method not given | Low potential for bioaccumulation | |
| propan-2-ol | 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 | | | | Immobile in soil or sediment |
| isotridecanol, ethoxylated | No data available | | | | Immobile in soil or sediment |
| 2-aminoethanol | 0.067 | | Model calculation | | Potential for mobility in soil, soluble in water Adsorption to solid soil phase is not expected |
| benzenesulphonic acid, mono-C10-13-alkyl derivs., compds. with ethanolamine | No data available | | | | |

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| | | | | | |
|----------------------|-------------------|--|--|--|--|
| 1-methoxy-2-propanol | No data available | | | | High potential for mobility in soil |
| propan-2-ol | No data available | | | | Potential for mobility in soil, soluble in water |

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.

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: 2491

14.2 UN proper shipping name:

Ethanolamine solution

Ethanolamine solution

14.3 Transport hazard class(es):

Transport hazard class (and subsidiary risks): 8

14.4 Packing group: III

14.5 Environmental hazards:

Environmentally hazardous: No

Marine pollutant: No

14.6 Special precautions for user: None known.

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code: The product is not transported in bulk tankers.

Other relevant information:**ADR**

Classification code: C7

Tunnel restriction code: E

Hazard identification number: 80

IMO/IMDG

EmS: F-A, S-B

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

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

- Regulation (EC) No. 1907/2006 - REACH
- Regulation (EC) No 1272/2008 - CLP

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

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

Ingredients according to EC Detergents Regulation 648/2004

| | |
|-----------------------|----------|
| non-ionic surfactants | >= 30 % |
| anionic surfactants | 5 - 15 % |
| perfumes | |

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

Seveso - Classification: Not classified

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: MS1001935

Version: 02.1

Revision: 2022-11-22

Reason for revision:

This data sheet contains changes from the previous version in section(s):, Overall design adjusted in accordance with Amendment 2020/878, Annex II of Regulation (EC) No 1907/2006, 1, 3, 4, 6, 7, 8, 9, 10, 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.
- H226 - Flammable liquid and vapour.
- H302 - Harmful if swallowed.
- H312 - Harmful in contact with skin.
- 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.
- H335 - May cause respiratory irritation.
- H336 - May cause drowsiness or dizziness.
- H412 - Harmful 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