# Safety Data Sheet

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

## Deosan Activate PVP Plus AG215

**Revision:** 2024-08-05 **Version:** 01.2

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

### 1.1 Product identifier

**Trade name:** Deosan Activate PVP Plus AG215

UFI: 6UWW-V0NV-200F-KEMQ

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

**Product use:** Teat dip.
Skin disinfectant for animals.
For professional 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_13_2
AISE_SWED_PW_19_1

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

Diversey Europe Operations BV, De Corridor 4, 3621ZB Breukelen [Maarssenbroeksedijk 2, 3542DN Utrecht], The Netherlands

**Contact details**
Diversey Ltd
Weston Favell Centre, Northampton NN3 8PD, United Kingdom
Tel: 01604 405311, Fax: 01604 406809
Regulatory Email: customerservice.uk@solenis.com

### 1.4 Emergency telephone number

Seek medical advice (show the label or safety data sheet where possible)
For medical or environmental emergency only:
call 0800 052 0185

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

Chronic aquatic toxicity, Category 3 (H412)

### 2.2 Label elements

**Hazard statements:**
H412 - Harmful to aquatic life with long lasting effects.

**Precautionary statements:**
P101 - If medical advice is needed, have product container or label at hand.
P102 - Keep out of reach of children.
P273 - Avoid release to the environment.
P501 - Dispose of contents and container in accordance with national regulations.

### 2.3 Other hazards

When sprayed:. Wear protective gloves. The product does not meet the criteria for PBT or vPvB in accordance with Regulation (EC) No 1907/2006, Annex XIII.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

| Ingredient(s) | EC number | CAS number | REACH number | Classification | Notes | Weight percent |
|---|---|---|---|---|---|---|
| glycerol | 200-289-5 | 56-81-5 | 01-2119471987-18 | Not classified as hazardous | | 3-10 |
| isotridecanol, ethoxylated | [4] | 69011-36-5 | [4] | Acute toxicity - Oral, Category 4 (H302)<br>Serious eye damage, Category 1 (H318) | | 1-3 |
| iodine | 231-442-4 | 7553-56-2 | [6] | Acute toxicity - Dermal, Category 4 (H312) | | 0.1-1 |

| | | | | | | |
|---|---|---|---|---|---|---|
| | | | | Acute toxicity - Inhalation, Category 4 (H332)<br>Specific target organ toxicity - Single exposure, Category 3 (H335)<br>Skin irritation, Category 2 (H315)<br>Eye irritation, Category 2 (H319)<br>Acute aquatic toxicity, Category 1 M=1 (H400) | | |
| sodium iodide | 231-679-3 | 7681-82-5 | 01-2119908880-36 | Specific target organ toxicity - Repeated exposure, Category 1 (H372)<br>Skin irritation, Category 2 (H315)<br>Eye irritation, Category 2 (H319)<br>Acute aquatic toxicity, Category 1 M=1 (H400) | | 0.1-1 |

**Specific concentration limits**
isotridecanol, ethoxylated:
• Serious eye damage, Category 1 (H318) >= 10% > Eye irritation, Category 2 (H319) >= 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:** Remove person to fresh air and keep comfortable for breathing. Get medical attention or advice if you feel unwell.

**Skin contact:** Wash with plenty of soap and 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. If irritation occurs and persists, get medical attention.

**Ingestion:** Rinse mouth. Immediately drink 1 glass of water. Never give anything by mouth to an unconscious person. Get emergency medical help immediately. If medical advice is needed, have product container or label at hand.

**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:** No known effects or symptoms in normal use.

**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**
No special measures required.

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

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

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

## SECTION 7: Handling and storage

**7.1 Precautions for safe handling**
**Measures to prevent fire and explosions:**
No special precautions required.
**Measures required to protect the environment:**
For environmental exposure controls see subsection 8.2.
**Advices on general occupational hygiene:**
Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs. Do not mix with other products unless adviced by Diversey. Wash hands before breaks and at the end of workday. Use only with adequate ventilation. See chapter 8.2, Exposure controls / Personal protection.

**7.2 Conditions for safe storage, including any incompatibilities**
Store in accordance with local and national regulations. Store in a closed container. Keep only in original packaging. Keep from freezing. Keep at temperature not exceeding 30 °C.
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) |
|---|---|---|
| glycerol | 10 mg/m³ mist | 30 mg/m³ mist |
| iodine | | 0.1 ppm<br>1.1 mg/m³ |

Biological limit values, if available:

**Recommended monitoring procedures, if available:**

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

**DNEL/DMEL and PNEC values**
**Human exposure**
DNEL/DMEL oral exposure - Consumer (mg/kg bw)

| Ingredient(s) | Short term - Local effects | Short term - Systemic effects | Long term - Local effects | Long term - Systemic effects |
|---|---|---|---|---|
| glycerol | - | - | - | 229 |
| isotridecanol, ethoxylated | - | - | - | - |
| iodine | - | - | - | - |
| sodium iodide | - | - | - | 0.0833 |

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) |
|---|---|---|---|---|
| glycerol | No data available | - | No data available | - |
| isotridecanol, ethoxylated | - | - | - | - |
| iodine | - | 0.01 | - | 0.01 |
| sodium iodide | No data available | - | 1.16 mg/cm² skin | 0.233 |

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) |
|---|---|---|---|---|
| glycerol | No data available | - | No data available | - |
| isotridecanol, ethoxylated | - | - | - | - |
| iodine | No data available | - | No data available | - |
| sodium iodide | No data available | - | 0.5833 mg/cm² skin | 0.0833 |

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 |
|---|---|---|---|---|
| glycerol | - | - | 56 | 56 |
| isotridecanol, ethoxylated | - | - | - | - |
| iodine | 1 | 1 | 0.07 | 0.07 |
| sodium iodide | - | - | 2.056 | 0.822 |

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 |
|---|---|---|---|---|
| glycerol | - | - | - | 33 |
| isotridecanol, ethoxylated | - | - | - | - |
| iodine | - | - | - | - |
| sodium iodide | - | - | 0.5069 | 0.145 |

**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) |
|---|---|---|---|---|
| glycerol | 0.885 | 0.0885 | 8.85 | 1000 |
| isotridecanol, ethoxylated | - | - | - | - |
| iodine | 0.01813 | 0.06001 | - | 11 |
| sodium iodide | 0.28 | 0.028 | 0.0017 | 100 |

Environmental exposure - PNEC, continued

| Ingredient(s) | Sediment, freshwater (mg/kg) | Sediment, marine (mg/kg) | Soil (mg/kg) | Air (mg/m³) |
|---|---|---|---|---|
| glycerol | 3.3 | 0.33 | 0.141 | - |
| isotridecanol, ethoxylated | - | - | - | - |
| iodine | 3.99 | 20.22 | 5.95 | - |
| sodium iodide | 1.38 | 0.138 | 0.111 | - |

**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:** 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_PW_11_1 | PW | PROC 11 | 60 | ERC8a |
| Manual application by dipping, soaking, pouring | AISE_SWED_PW_13_2 | PW | PROC 13 | 60 | ERC8a |
| Manual application | AISE_SWED_PW_19_1 | PW | PROC 19 | 480 | ERC8a |

**Personal protective equipment**

**Eye / face protection:** Safety glasses are not normally required. However, their use is recommended in those cases where splashes may occur when handling the product (EN 16321 / EN 166).

**Hand protection:** When sprayed: 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:** When sprayed:. Protective shoes or boots (EN 13832). Protective clothing (EN 13034).

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

## SECTION 9: Physical and chemical properties

**9.1 Information on basic physical and chemical properties**

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

**Method / remark**

**Physical state:** Liquid
**Colour:** Clear , Dark , Brown
**Odour:** Product specific
**Odour threshold:** Not applicable
**Melting point/freezing point (°C):** Not determined — Not relevant to classification of this product
**Initial boiling point and boiling range (°C):** Not determined — See substance data

Substance data, boiling point

| Ingredient(s) | Value (°C) | Method | Atmospheric pressure (hPa) |
|---|---|---|---|
| glycerol | 290 | Method not given | 1013 |
| isotridecanol, ethoxylated | No data available | | |
| iodine | 184.4 | Method not given | |
| sodium iodide | 1304 | Method not given | 1013 |

**Method / remark**

**Flammability (solid, gas):** Not applicable to liquids
**Flammability (liquid):** Not flammable.
**Flash point (°C):** > 100 °C — closed cup
**Sustained combustion:** The product does not sustain combustion — Weight of evidence
*( UN Manual of Tests and Criteria, section 32, L.2 )*
**Lower and upper explosion limit/flammability limit (%):** Not determined — See substance data

Substance data, flammability or explosive limits, if available:

| Ingredient(s) | Lower limit (% vol) | Upper limit (% vol) |
|---|---|---|
| glycerol | 2.7 | 19 |
| isotridecanol, ethoxylated | [-] | [-] |
| iodine | - | - |
| sodium iodide | Not flammable | No data available |

**Method / remark**

**Autoignition temperature:** Not determined
**Decomposition temperature:** Not applicable.
**pH:** ≈ 4 (neat) — ISO 4316
**Kinematic viscosity:** ≈ 15 mPa.s (20 °C) — DM-006 Viscosity - Additional
**Solubility in / Miscibility with water:** Fully miscible

Substance data, solubility in water

| Ingredient(s) | Value (g/l) | Method | Temperature (°C) |
|---|---|---|---|
| glycerol | 500 | Method not given | 20 |
| isotridecanol, ethoxylated | Soluble | Method not given | 20 |
| iodine | 0.33 | Method not given | 25 |
| sodium iodide | 1790 | Method not given | 20 |

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) |
|---|---|---|---|
| glycerol | < 1 | Method not given | 20 |
| isotridecanol, ethoxylated | < 10 | | 20 |
| iodine | 35 | Method not given | 20 |
| sodium iodide | No data available | | |

**Method / remark**

**Relative density:** ≈ 1.03 (20 °C) — OECD 109 (EU A.3)
**Relative vapour density:** No data available. — Not relevant to classification of this product
**Particle characteristics:** No data available. — Not applicable to liquids.

**9.2 Other information**
**9.2.1 Information with regard to physical hazard classes**
**Explosive properties:** Not explosive. Vapours may form explosive mixtures with air.
**Oxidising properties:** Not oxidising.
**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

**Eye irritation and corrosivity**
**Result:** Not corrosive or irritant **Species:** Not applicable. **Method:** Weight of evidence

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) |
|---|---|---|---|---|---|---|
| glycerol | $LD_{50}$ | 12600 | Mouse | Method not given | | Not established |
| isotridecanol, ethoxylated | $LD_{50}$ | > 300-2000 | Rat | Weight of evidence | | 720 |
| iodine | $LD_{50}$ | > 2000 | Rat | Method not given | | Not established |
| sodium iodide | $LD_{50}$ | 4340 | Rat | Method not given | | Not established |

Acute dermal toxicity

| Ingredient(s) | Endpoint | Value (mg/kg) | Species | Method | Exposure time (h) | ATE Dermal (mg/kg) |
|---|---|---|---|---|---|---|
| glycerol | $LD_{50}$ | > 10000 | Rabbit | Method not given | | Not established |
| isotridecanol, ethoxylated | $LD_{50}$ | > 2000 | Rabbit | Weight of evidence | | Not established |
| iodine | $LD_{50}$ | 1425 | Rabbit | EPA OPPTS 870.1200 | 24 | 1425 |
| sodium iodide | | No data available | | | | Not established |

Acute inhalative toxicity

| Ingredient(s) | Endpoint | Value (mg/l) | Species | Method | Exposure time (h) |
|---|---|---|---|---|---|
| glycerol | | > 2.75 | Rat | Weight of evidence | 4 Hrs. |
| isotridecanol, ethoxylated | | No data available | | | |
| iodine | $LC_{50}$ | > 4.588 (dust) | Rat | OECD 403 (EU B.2) | 4 |
| sodium iodide | | 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) |
|---|---|---|---|---|
| glycerol | Not established | Not established | Not established | Not established |

| | | | | |
|---|---|---|---|---|
| isotridecanol, ethoxylated | Not established | Not established | Not established | Not established |
| iodine | Not established | Not established | - | Not established |
| sodium iodide | Not established | Not established | Not established | Not established |

### Irritation and corrosivity

Skin irritation and corrosivity

| Ingredient(s) | Result | Species | Method | Exposure time |
|---|---|---|---|---|
| glycerol | Not irritant | | OECD 404 (EU B.4) | |
| isotridecanol, ethoxylated | Not irritant | Rabbit | OECD 404 (EU B.4) | |
| iodine | Irritant | | OECD 435 | 65 minute(s) |
| sodium iodide | No data available | | | |

Eye irritation and corrosivity

| Ingredient(s) | Result | Species | Method | Exposure time |
|---|---|---|---|---|
| glycerol | Not corrosive or irritant | | Method not given | |
| isotridecanol, ethoxylated | Severe damage | Rabbit | OECD 405 (EU B.5) | |
| iodine | Irritant | Not applicable. | Weight of evidence | |
| sodium iodide | No data available | | | |

Respiratory tract irritation and corrosivity

| Ingredient(s) | Result | Species | Method | Exposure time |
|---|---|---|---|---|
| glycerol | No data available | | | |
| isotridecanol, ethoxylated | No data available | | | |
| iodine | Irritating to respiratory tract | | Weight of evidence | Not applicable. |
| sodium iodide | No data available | | | |

### Sensitisation

Sensitisation by skin contact

| Ingredient(s) | Result | Species | Method | Exposure time (h) |
|---|---|---|---|---|
| glycerol | Not sensitising | Human | Human repeated patch test | |
| isotridecanol, ethoxylated | Not sensitising | Guinea pig | Method not given | |
| iodine | Not sensitising | Mouse | OECD 429 (EU B.42) | |
| sodium iodide | No data available | | | |

Sensitisation by inhalation

| Ingredient(s) | Result | Species | Method | Exposure time |
|---|---|---|---|---|
| glycerol | No data available | | | |
| isotridecanol, ethoxylated | No data available | | | |
| iodine | No data available | | | |
| sodium iodide | Not sensitising | | | |

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

Mutagenicity

| Ingredient(s) | Result (in-vitro) | Method (in-vitro) | Result (in-vivo) | Method (in-vivo) |
|---|---|---|---|---|
| glycerol | No evidence for mutagenicity, negative test results | OECD 471 (EU B.12/13) | No data available | |
| 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 |
| iodine | No evidence for genotoxicity, weight of evidence | OECD 473 OECD 476 (Mouse lymphoma) OECD 476 (Chinese Hamster Ovary) | No evidence of genotoxicity, negative test results | Read across |
| sodium iodide | No data available | | No data available | |

Carcinogenicity

| Ingredient(s) | Effect |
|---|---|
| glycerol | No evidence for carcinogenicity, negative test results |
| isotridecanol, ethoxylated | No evidence for carcinogenicity, weight-of-evidence |
| iodine | No evidence for carcinogenicity, weight-of-evidence |
| sodium iodide | No data available |

Toxicity for reproduction

| Ingredient(s) | Endpoint | Specific effect | Value (mg/kg bw/d) | Species | Method | Exposure time | Remarks and other effects reported |
|---|---|---|---|---|---|---|---|
| glycerol | | | No data available | | | | Not toxic for reproduction |
| isotridecanol, ethoxylated | NOAEL | Maternal toxicity | > 250 | Rat | Weight of evidence | | Not toxic for reproduction |
| iodine | NOAEL | Maternal toxicity | 10 | Rat | OECD 422, oral | 29 day(s) | Effects on levels of significant toxicity to the parents |
| sodium iodide | | | 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 |
|---|---|---|---|---|---|---|
| glycerol | | No data available | | | | |
| isotridecanol, ethoxylated | | No data available | | | | |
| iodine | NOAEL | 0.375 | Rat | | 100 | |
| sodium iodide | | 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 |
|---|---|---|---|---|---|---|
| glycerol | | No data available | | | | |
| isotridecanol, ethoxylated | | No data available | | | | |
| iodine | | No data available | | | | |
| sodium iodide | | 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 |
|---|---|---|---|---|---|---|
| glycerol | | No data available | | | | |
| isotridecanol, ethoxylated | | No data available | | | | |
| iodine | | No data available | | | | |
| sodium iodide | | 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 |
|---|---|---|---|---|---|---|---|---|
| glycerol | | | No data available | | | | | |
| isotridecanol, ethoxylated | Oral | NOAEL | 50 | Rat | Weight of evidence | 24 month(s) | Effects on body weight and food/water consumption<br>Effects on organ weights | |
| iodine | Oral | NOAEL | 0.01 | Human | Monitoring in humans | | | |
| sodium iodide | | | No data available | | | | | |

STOT-single exposure

| Ingredient(s) | Affected organ(s) |
|---|---|
| glycerol | No data available |
| isotridecanol, ethoxylated | Not applicable |
| iodine | No data available |
| sodium iodide | No data available |

STOT-repeated exposure

| Ingredient(s) | Affected organ(s) |
|---|---|
| glycerol | No data available |
| isotridecanol, ethoxylated | Not applicable |
| iodine | Thyroid gland |
| sodium iodide | 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) |
|---|---|---|---|---|---|
| glycerol | $LC_{50}$ | 54000 | *Oncorhynchus mykiss* | Method not given | 96 |
| isotridecanol, ethoxylated | $LC_{50}$ | > 10 - 100 | *Cyprinus carpio* | OECD 203 (EU C.1) Weight of evidence | 96 |
| iodine | $LC_{50}$ | 1.67 | *Fish* | Method not given | 24 |
| sodium iodide | $LC_{50}$ | 4500 | *Oncorhynchus mykiss* | Method not given | 96 |

Aquatic short-term toxicity - crustacea

| Ingredient(s) | Endpoint | Value (mg/l) | Species | Method | Exposure time (h) |
|---|---|---|---|---|---|
| glycerol | $EC_{50}$ | > 10000 | *Daphnia magna Straus* | Method not given | 24 |
| isotridecanol, ethoxylated | $EC_{50}$ | > 10 - 100 | *Daphnia magna Straus* | OECD 202, static | 48 |
| iodine | $EC_{50}$ | 0.55 | *Daphnia magna Straus* | OECD 202, static | 48 |
| sodium iodide | $LC_{50}$ | 0.17 | *Daphnia magna Straus* | Method not given | 48 |

Aquatic short-term toxicity - algae

| Ingredient(s) | Endpoint | Value (mg/l) | Species | Method | Exposure time (h) |
|---|---|---|---|---|---|
| glycerol | | 2900 | | | |
| isotridecanol, ethoxylated | $EC_{50}$ | > 10 - 100 | *Desmodesmus subspicatus* | OECD 201, static Weight of evidence | 72 |
| iodine | $EC_{50}$ | 0.13 | *Desmodesmus subspicatus* | OECD 201, static | 72 |
| sodium iodide | | No data available | | | |

Aquatic short-term toxicity - marine species

| Ingredient(s) | Endpoint | Value (mg/l) | Species | Method | Exposure time (days) |
|---|---|---|---|---|---|
| glycerol | | No data available | | | |
| isotridecanol, ethoxylated | | No data available | | | |
| iodine | | No data available | | | |
| sodium iodide | | No data available | | | |

Impact on sewage plants - toxicity to bacteria

| Ingredient(s) | Endpoint | Value (mg/l) | Inoculum | Method | Exposure time |
|---|---|---|---|---|---|

| | | | | | |
|---|---|---|---|---|---|
| glycerol | $EC_{50}$ | > 10000 | *Pseudomonas putida* | Method not given | 16 hour(s) |
| isotridecanol, ethoxylated | $EC_{10}$ | > 10000 | *Bacteria* | DIN 38412 / Part 8 | 17 hour(s) |
| iodine | $EC_{50}$ | 280 | *Bacteria* | OECD 209 | 3 hour(s) |
| sodium iodide | | No data available | | | |

**Aquatic long-term toxicity**

Aquatic long-term toxicity - fish

| Ingredient(s) | Endpoint | Value (mg/l) | Species | Method | Exposure time | Effects observed |
|---|---|---|---|---|---|---|
| glycerol | | No data available | | | | |
| isotridecanol, ethoxylated | | No data available | | | | |
| iodine | | No data available | | | | |
| sodium iodide | | No data available | | | | |

Aquatic long-term toxicity - crustacea

| Ingredient(s) | Endpoint | Value (mg/l) | Species | Method | Exposure time | Effects observed |
|---|---|---|---|---|---|---|
| glycerol | | No data available | | | | |
| isotridecanol, ethoxylated | $EC_{10}$ | 2.6 | *Daphnia magna* | OECD 211, semi-static | 21 day(s) | Effects on reproduction |
| iodine | | No data available | | | | |
| sodium iodide | | 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 |
|---|---|---|---|---|---|---|
| glycerol | | No data available | | | | |
| isotridecanol, ethoxylated | | No data available | | | | |
| iodine | | No data available | | | | |
| sodium iodide | | 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 |
|---|---|---|---|---|---|---|
| isotridecanol, ethoxylated | NOEC | 220 | *Eisenia fetida* | | | |
| iodine | NOEC | 11 | *Microarthropods* | | 11 | |

Terrestrial toxicity - plants, if available:

| Ingredient(s) | Endpoint | Value (mg/kg dw soil) | Species | Method | Exposure time (days) | Effects observed |
|---|---|---|---|---|---|---|
| isotridecanol, ethoxylated | NOEC | 10 | *Lepidium sativum* | OECD 208 | | |
| iodine | $EC_{50}$ | 38 | *Brassica rapa* | | 50 | |

Terrestrial toxicity - birds, if available:

| Ingredient(s) | Endpoint | Value | Species | Method | Exposure time (days) | Effects observed |
|---|---|---|---|---|---|---|
| isotridecanol, ethoxylated | | No data available | | | | |
| iodine | NOEC | 0.525 | Turkey | Method not given | 20 | |

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 | | | | |

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 | | | | |
| iodine | NOEC | 11 | *Not specified* | | 11 | |

### 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 | | | |
| iodine | - | | | |

Abiotic degradation - hydrolysis, if available:

| Ingredient(s) | Half-life time in fresh water | Method | Evaluation | Remark |
|---|---|---|---|---|
| isotridecanol, ethoxylated | No data available | | | |
| iodine | - | | Rapidly hydrolysible | |

Abiotic degradation - other processes, if available:

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

**Biodegradation**

Ready biodegradability - aerobic conditions

| Ingredient(s) | Inoculum | Analytical method | $DT_{50}$ | Method | Evaluation |
|---|---|---|---|---|---|
| glycerol | | | 60% in 28 day(s) | Method not given | Readily biodegradable |
| isotridecanol, ethoxylated | | $CO_2$ production | > 60 % in 28 day(s) | OECD 301B | Readily biodegradable |
| iodine | | | | | Not applicable (inorganic substance) |
| sodium iodide | | | | | Not applicable (inorganic substance) |

Ready biodegradability - anaerobic and marine conditions, if available:

| Ingredient(s) | Medium & Type | Analytical method | $DT_{50}$ | Method | Evaluation |
|---|---|---|---|---|---|
| isotridecanol, ethoxylated | | | | | No data available |
| iodine | | | | | Not applicable (inorganic substance) |
| sodium iodide | | | | | Not applicable (inorganic substance) |

Degradation in relevant environmental compartments, if available:

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

### 12.3 Bioaccumulative potential

Partition coefficient n-octanol/water (log Kow)

| Ingredient(s) | Value | Method | Evaluation | Remark |
|---|---|---|---|---|
| glycerol | -1.76 | Method not given | No bioaccumulation expected | |
| isotridecanol, ethoxylated | No data available | | No bioaccumulation expected | |
| iodine | 2.49 | QSAR | Low potential for bioaccumulation | |
| sodium iodide | No data available | | | |

Bioconcentration factor (BCF)

| Ingredient(s) | Value | Species | Method | Evaluation | Remark |
|---|---|---|---|---|---|
| glycerol | No data available | | | | |
| isotridecanol, ethoxylated | No data available | | | No bioaccumulation expected | |
| iodine | 0.027 | *Ophiuroidea* | Method not given | Low potential for bioaccumulation | |
| sodium iodide | No data available | | | | |

### 12.4 Mobility in soil

Adsorption/Desorption to soil or sediment

| Ingredient(s) | Adsorption coefficient Log Koc | Desorption coefficient Log Koc(des) | Method | Soil/sediment type | Evaluation |
|---|---|---|---|---|---|
| glycerol | No data available | | | | Potential for mobility in soil, soluble in water |
| isotridecanol, ethoxylated | No data available | | | | Immobile in soil or sediment |
| iodine | 0.21 | | Method not given | | Low potential for adsorption to soil |
| sodium iodide | No data available | | | | |

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

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

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

## SECTION 13: Disposal considerations

**13.1 Waste treatment methods**

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

**European Waste Catalogue:** 16 03 06 - organic wastes other than those mentioned in 16 03 05.

**Empty packaging**

**Recommendation:** Dispose of observing national or local regulations. Empty containers must be triple rinsed prior to disposal.

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

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

**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:** MS1004449 **Version:** 01.2 **Revision:** 2024-08-05

**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, 3, 6, 7, 8, 9, 11, 12, 16

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

**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
• H302 - Harmful if swallowed.
• H312 - Harmful in contact with skin.
• H315 - Causes skin irritation.
• H318 - Causes serious eye damage.
• H319 - Causes serious eye irritation.
• H332 - Harmful if inhaled.
• H335 - May cause respiratory irritation.
• H372 - Causes damage to organs through prolonged or repeated exposure.
• H400 - Very toxic to aquatic life.

**End of Safety Data Sheet**