# Safety Data Sheet

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

## Comfort Professional Deosoft Concentrated

**Revision:** 2024-08-08 **Version:** 12.1

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

### 1.1 Product identifier

**Trade name:** Comfort Professional Deosoft Concentrated

*Comfort is a registered trade mark and is used under licence of Unilever*

UFI: QQQ5-G0AS-M00A-Y1QA

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

**Product use:** Laundry conditioner.

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

**SWED - Sector-specific worker exposure description :**
AISE_SWED_PW_4_1
AISE_SWED_PW_8b_2
PC35-Washing and cleaning products
AISE_SWED_PW_1_1
AISE_SWED_PW_4_1
PC35-Washing and cleaning products

### 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

Not classified as hazardous

### 2.2 Label elements

Contains 1,2-benzisothiazol-3(2H)-one (Benzisothiazolinone), Heptanal, 2-(phenylmethylene)-, (E)- (Amyl Cinnamic Aldehyde), 2-benzylideneheptanal (Amyl Cinnamal), alpha-hexylcinnamaldehyde (Hexyl Cinnamal), 2-Buten-1-one, 1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-, [1.alpha.(E),2.beta.]- (Trans-Rose Ketone-3)

**Hazard statements:**
EUH208 - May produce an allergic reaction.

**Precautionary statements:**
P102 - Keep out of reach of children.

**Further indications on the label:**
Contains: preservative.

### 2.3 Other hazards

No other hazards known.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

| Ingredient(s) | EC number | CAS number | REACH number | Classification | Notes | Weight percent |
|---|---|---|---|---|---|---|

| | | | | | | |
|---|---|---|---|---|---|---|
| Propan-2-ol | 200-661-7 | 67-63-0 | 01-2119457558-25 | Flammable liquids, Category 2 (H225)<br>Specific target organ toxicity - Single exposure, Category 3 (H336)<br>Eye irritation, Category 2 (H319) | | 1-3 |
| Heptanal, 2-(phenylmethylene)-, (E)- | 800-696-3 | 78605-96-6 | 01-2119978288-18 | Skin sensitisation, Sub-category 1B (H317)<br>Chronic aquatic toxicity, Category 2 (H411) | | 0.1-1 |
| 2-benzylideneheptanal | 204-541-5 | 122-40-7 | 01-2119978288-18 | Skin sensitisation, Sub-category 1B (H317)<br>Chronic aquatic toxicity, Category 2 (H411) | | 0.1-1 |
| alpha-hexylcinnamaldehyde | 202-983-3 | 101-86-0 | 01-2119533092-50 | Skin sensitisation, Sub-category 1B (H317)<br>Acute aquatic toxicity, Category 1 M=1 (H400)<br>Chronic aquatic toxicity, Category 2 (H411) | | 0.1-1 |
| 2-Buten-1-one, 1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-, [1.alpha.(E),2.beta.]- | 275-156-8 | 71048-82-3 | - | Acute toxicity - Oral, Category 4 (H302)<br>Skin irritation, Category 2 (H315)<br>Skin sensitisation, Sub-category 1A (H317)<br>Acute aquatic toxicity, Category 1 M=1 (H400)<br>Chronic aquatic toxicity, Category 1 M=1 (H410) | | 0.01-0.1 |

**Specific concentration limits**
1,2-benzisothiazol-3(2H)-one:
• Skin sensitisation, Category 1 (H317) >= 0.05%

Workplace exposure limit(s), if available, are listed in subsection 8.1.
ATE, if available, are listed in section 11.
[6] Exempted: biocidal active. See Article 15(2) of Regulation (EC) No 1907/2006.
For the full text of the H and EUH phrases mentioned in this Section, see Section 16..

## SECTION 4: First aid measures

**4.1 Description of first aid measures**

**Inhalation:** Get medical attention or advice if you feel unwell.

**Skin contact:** Wash skin with plenty of lukewarm, gently flowing water. If skin irritation occurs: Get medical advice or attention.

**Eye contact:** Rinse cautiously with water for several 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 medical attention or advice if you feel unwell.

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

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

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

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

**Eye contact:** 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.

**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:**
Follow general hygiene considerations recognised as common good workplace practices. Keep away from food, drink and animal feeding stuffs. Keep out of reach of children. Do not mix with other products unless adviced by Diversey. Wash hands thoroughly after handling.

**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 out of reach of children.
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) |
|---|---|---|
| Propan-2-ol | 400 ppm<br>999 mg/m³ | 500 ppm<br>1250 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 |
|---|---|---|---|---|
| Propan-2-ol | - | - | - | 26 |
| Heptanal, 2-(phenylmethylene)-, (E)- | No data available | No data available | No data available | No data available |
| 2-benzylideneheptanal | No data available | No data available | No data available | No data available |
| alpha-hexylcinnamaldehyde | No data available | No data available | No data available | No data available |
| 2-Buten-1-one, 1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-, [1.alpha.(E),2.beta.]- | No data available | No data available | No data available | No data available |

DNEL/DMEL dermal exposure - Worker

| Ingredient(s) | Short term - Local effects | Short term - Systemic effects (mg/kg bw) | Long term - Local effects | Long term - Systemic effects (mg/kg bw) |
|---|---|---|---|---|
| Propan-2-ol | - | - | - | 888 |
| Heptanal, 2-(phenylmethylene)-, (E)- | No data available | No data available | No data available | No data available |
| 2-benzylideneheptanal | No data available | No data available | No data available | No data available |
| alpha-hexylcinnamaldehyde | No data available | No data available | No data available | No data available |
| 2-Buten-1-one, 1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-, [1.alpha.(E),2.beta.]- | No data available | No data available | No data available | No data available |

DNEL/DMEL dermal exposure - Consumer

| Ingredient(s) | Short term - Local effects | Short term - Systemic effects (mg/kg bw) | Long term - Local effects | Long term - Systemic effects (mg/kg bw) |
|---|---|---|---|---|
| Propan-2-ol | - | - | - | 319 |
| Heptanal, 2-(phenylmethylene)-, (E)- | No data available | No data available | No data available | No data available |
| 2-benzylideneheptanal | No data available | No data available | No data available | No data available |
| alpha-hexylcinnamaldehyde | No data available | No data available | No data available | No data available |
| 2-Buten-1-one, 1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-, [1.alpha.(E),2.beta.]- | No data available | No data available | No data available | No data available |

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

| Ingredient(s) | Short term - Local | Short term - Systemic | Long term - Local | Long term - Systemic |
|---|---|---|---|---|

| | effects | effects | effects | effects |
|---|---|---|---|---|
| Propan-2-ol | - | - | - | 500 |
| Heptanal, 2-(phenylmethylene)-, (E)- | No data available | No data available | No data available | No data available |
| 2-benzylideneheptanal | No data available | No data available | No data available | No data available |
| alpha-hexylcinnamaldehyde | No data available | No data available | No data available | No data available |
| 2-Buten-1-one, 1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-, [1.alpha.(E),2.beta.]- | No data available | No data available | No data available | No data available |

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 |
|---|---|---|---|---|
| Propan-2-ol | - | - | - | 89 |
| Heptanal, 2-(phenylmethylene)-, (E)- | No data available | No data available | No data available | No data available |
| 2-benzylideneheptanal | No data available | No data available | No data available | No data available |
| alpha-hexylcinnamaldehyde | No data available | No data available | No data available | No data available |
| 2-Buten-1-one, 1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-, [1.alpha.(E),2.beta.]- | No data available | No data available | No data available | No data available |

**Environmental exposure**

Environmental exposure - PNEC

| Ingredient(s) | Surface water, fresh (mg/l) | Surface water, marine (mg/l) | Intermittent (mg/l) | Sewage treatment plant (mg/l) |
|---|---|---|---|---|
| Propan-2-ol | 140.9 | 140.9 | 140.9 | 2251 |
| Heptanal, 2-(phenylmethylene)-, (E)- | No data available | No data available | No data available | No data available |
| 2-benzylideneheptanal | No data available | No data available | No data available | No data available |
| alpha-hexylcinnamaldehyde | No data available | No data available | No data available | No data available |
| 2-Buten-1-one, 1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-, [1.alpha.(E),2.beta.]- | No data available | No data available | No data available | No data available |

Environmental exposure - PNEC, continued

| Ingredient(s) | Sediment, freshwater (mg/kg) | Sediment, marine (mg/kg) | Soil (mg/kg) | Air (mg/m³) |
|---|---|---|---|---|
| Propan-2-ol | 552 | 552 | 28 | - |
| Heptanal, 2-(phenylmethylene)-, (E)- | No data available | No data available | No data available | No data available |
| 2-benzylideneheptanal | No data available | No data available | No data available | No data available |
| alpha-hexylcinnamaldehyde | No data available | No data available | No data available | No data available |
| 2-Buten-1-one, 1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-, [1.alpha.(E),2.beta.]- | No data available | No data available | No data available | No data available |

**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:** No special requirements under normal use conditions.
**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 |
|---|---|---|---|---|---|
| PC35-Washing and cleaning products | PC35-Washing and cleaning products | C | - | - | ERC8a |
| Automatic application in a dedicated system | AISE_SWED_PW_4_1 | PW | PROC 4 | 480 | ERC8a |
| Automatic transfer and dilution | AISE_SWED_PW_8b_2 | PW | PROC 8b | 60 | ERC8b |

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

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

*Recommended safety measures for handling the diluted product:*

**Recommended maximum concentration (% w/w):** 2

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

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

| | SWED | LCS | PROC | Duration (min) | ERC |
|---|---|---|---|---|---|
| PC35-Washing and cleaning products | PC35-Washing and cleaning products | C | - | - | ERC8a |
| Automatic application in a dedicated closed system | AISE_SWED_PW_1_1 | PW | PROC 1 | 480 | ERC8a |
| Automatic application in a dedicated system | AISE_SWED_PW_4_1 | PW | PROC 4 | 480 | ERC8a |

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

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

## SECTION 9: Physical and chemical properties

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

**Method / remark**

**Physical state:** Liquid
**Colour:** Milky , Light , Green
**Odour:** Characteristic
**Odour threshold:** Not applicable
**Melting point/freezing point (°C):** Not determined — Not relevant to classification of this product
**Initial boiling point and boiling range (°C):** Not determined — See substance data

Substance data, boiling point

| Ingredient(s) | Value (°C) | Method | Atmospheric pressure (hPa) |
|---|---|---|---|
| Propan-2-ol | 82 | Method not given | 1013 |
| Heptanal, 2-(phenylmethylene)-, (E)- | No data available | | |
| 2-benzylideneheptanal | No data available | | |
| alpha-hexylcinnamaldehyde | No data available | | |
| 2-Buten-1-one, 1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-, [1.alpha.(E),2.beta.]- | No data available | | |

**Method / remark**

**Flammability (solid, gas):** Not applicable to liquids
**Flammability (liquid):** Not flammable.
**Flash point (°C):** ≈ 58 °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) |
|---|---|---|
| Propan-2-ol | 2 | 13 |

**Method / remark**

**Autoignition temperature:** Not determined
**Decomposition temperature:** Not applicable.
**pH:** ≈ 3 (neat) — ISO 4316
**Dilution pH:** ≈ 6 (2 %) — ISO 4316
**Kinematic viscosity:** ≈ 60 mPa.s (20 °C)
**Solubility in / Miscibility with water:** Fully miscible

Substance data, solubility in water

| Ingredient(s) | Value (g/l) | Method | Temperature (°C) |
|---|---|---|---|
| Propan-2-ol | Soluble | Method not given | |
| Heptanal, 2-(phenylmethylene)-, (E)- | No data available | | |
| 2-benzylideneheptanal | No data available | | |
| alpha-hexylcinnamaldehyde | No data available | | |

| | | | |
|---|---|---|---|
| 2-Buten-1-one, 1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-, [1.alpha.(E),2.beta.]- | No data available | | |

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

**Vapour pressure:** Not determined

**Method / remark**
See substance data

Substance data, vapour pressure

| Ingredient(s) | Value (Pa) | Method | Temperature (°C) |
|---|---|---|---|
| Propan-2-ol | 4200 | Method not given | 20 |
| Heptanal, 2-(phenylmethylene)-, (E)- | No data available | | |
| 2-benzylideneheptanal | No data available | | |
| alpha-hexylcinnamaldehyde | No data available | | |
| 2-Buten-1-one, 1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-, [1.alpha.(E),2.beta.]- | No data available | | |

**Method / remark**

**Relative density:** ≈ 1.00 (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 — Weight of evidence

**9.2.2 Other safety characteristics**
No other relevant information available.

## SECTION 10: Stability and reactivity

**10.1 Reactivity**
No reactivity hazards known under normal storage and use conditions.

**10.2 Chemical stability**
Stable under normal storage and use conditions.

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

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

**10.5 Incompatible materials**
None known under normal use conditions.

**10.6 Hazardous decomposition products**
None known under normal storage and use conditions.

## SECTION 11: Toxicological information

**11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**

Mixture data: .

**Relevant calculated ATE(s):**
ATE - Oral (mg/kg): >2000

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

**Acute toxicity**
Acute oral toxicity

| Ingredient(s) | Endpoint | Value (mg/kg) | Species | Method | Exposure time (h) | ATE Oral (mg/kg) |
|---|---|---|---|---|---|---|
| Propan-2-ol | $LD_{50}$ | 5840 | Rat | OECD 401 (EU B.1) | | Not established |
| Heptanal, 2-(phenylmethylene)-, (E)- | | No data | | | | Not established |

| | | | | | | |
|---|---|---|---|---|---|---|
| | | available | | | | |
| 2-benzylideneheptanal | | No data available | | | | Not established |
| alpha-hexylcinnamaldehyde | | 3100 | | | | Not established |
| 2-Buten-1-one, 1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-, [1.alpha.(E),2.beta.]- | | No data available | | | | 5e+006 |

Acute dermal toxicity

| Ingredient(s) | Endpoint | Value (mg/kg) | Species | Method | Exposure time (h) | ATE Dermal (mg/kg) |
|---|---|---|---|---|---|---|
| Propan-2-ol | $LD_{50}$ | > 2000 | Rabbit | Method not given | | Not established |
| Heptanal, 2-(phenylmethylene)-, (E)- | | No data available | | | | Not established |
| 2-benzylideneheptanal | | No data available | | | | Not established |
| alpha-hexylcinnamaldehyde | | No data available | | | | Not established |
| 2-Buten-1-one, 1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-, [1.alpha.(E),2.beta.]- | | No data available | | | | Not established |

Acute inhalative toxicity

| Ingredient(s) | Endpoint | Value (mg/l) | Species | Method | Exposure time (h) |
|---|---|---|---|---|---|
| Propan-2-ol | $LC_{50}$ | > 25 (vapour) | Rat | OECD 403 (EU B.2) | 6 |
| Heptanal, 2-(phenylmethylene)-, (E)- | | No data available | | | |
| 2-benzylideneheptanal | | No data available | | | |
| alpha-hexylcinnamaldehyde | | No data available | | | |
| 2-Buten-1-one, 1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-, [1.alpha.(E),2.beta.]- | | No data available | | | |

Acute inhalative toxicity, continued

| Ingredient(s) | ATE - inhalation, dust (mg/l) | ATE - inhalation, mist (mg/l) | ATE - inhalation, vapour (mg/l) | ATE - inhalation, gas (mg/l) |
|---|---|---|---|---|
| Propan-2-ol | Not established | Not established | Not established | Not established |
| Heptanal, 2-(phenylmethylene)-, (E)- | Not established | Not established | Not established | Not established |
| 2-benzylideneheptanal | Not established | Not established | Not established | Not established |
| alpha-hexylcinnamaldehyde | Not established | Not established | Not established | Not established |
| 2-Buten-1-one, 1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-, [1.alpha.(E),2.beta.]- | Not established | Not established | Not established | Not established |

## Irritation and corrosivity

Skin irritation and corrosivity

| Ingredient(s) | Result | Species | Method | Exposure time |
|---|---|---|---|---|
| Propan-2-ol | Not irritant | Rabbit | OECD 404 (EU B.4) | |
| Heptanal, 2-(phenylmethylene)-, (E)- | No data available | | | |
| 2-benzylideneheptanal | No data available | | | |
| alpha-hexylcinnamaldehyde | No data available | | | |
| 2-Buten-1-one, 1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-, [1.alpha.(E),2.beta.]- | No data available | | | |

Eye irritation and corrosivity

| Ingredient(s) | Result | Species | Method | Exposure time |
|---|---|---|---|---|
| Propan-2-ol | Irritant | Rabbit | OECD 405 (EU B.5) | |
| Heptanal, 2-(phenylmethylene)-, (E)- | No data available | | | |
| 2-benzylideneheptanal | No data available | | | |
| alpha-hexylcinnamaldehyde | No data available | | | |
| 2-Buten-1-one, 1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-, [1.alpha.(E),2.beta.]- | No data available | | | |

Respiratory tract irritation and corrosivity

| Ingredient(s) | Result | Species | Method | Exposure time |
|---|---|---|---|---|
| Propan-2-ol | No data available | | | |
| Heptanal, 2-(phenylmethylene)-, (E)- | No data available | | | |
| 2-benzylideneheptanal | No data available | | | |
| alpha-hexylcinnamaldehyde | No data available | | | |
| 2-Buten-1-one, 1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-, [1.alpha.(E),2.beta.]- | No data available | | | |

## Sensitisation

Sensitisation by skin contact

| Ingredient(s) | Result | Species | Method | Exposure time (h) |
|---|---|---|---|---|
| Propan-2-ol | Not sensitising | Guinea pig | OECD 406 (EU B.6) / Buehler test | |
| Heptanal, 2-(phenylmethylene)-, (E)- | Sensitising | Mouse | OECD 429 (EU B.42) | |
| 2-benzylideneheptanal | No data available | | | |
| alpha-hexylcinnamaldehyde | No data available | | | |
| 2-Buten-1-one, 1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-, [1.alpha.(E),2.beta.]- | No data available | | | |

Sensitisation by inhalation

| Ingredient(s) | Result | Species | Method | Exposure time |
|---|---|---|---|---|
| Propan-2-ol | No data available | | | |
| Heptanal, 2-(phenylmethylene)-, (E)- | No data available | | | |
| 2-benzylideneheptanal | No data available | | | |
| alpha-hexylcinnamaldehyde | No data available | | | |
| 2-Buten-1-one, 1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-, [1.alpha.(E),2.beta.]- | No data available | | | |

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

Mutagenicity

| Ingredient(s) | Result (in-vitro) | Method (in-vitro) | Result (in-vivo) | Method (in-vivo) |
|---|---|---|---|---|
| Propan-2-ol | No evidence for mutagenicity, negative test results 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) |
| Heptanal, 2-(phenylmethylene)-, (E)- | No data available | | No data available | |
| 2-benzylideneheptanal | No data available | | No data available | |
| alpha-hexylcinnamaldehyde | No data available | | No data available | |
| 2-Buten-1-one, 1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-, [1.alpha.(E),2.beta.]- | No data available | | No data available | |

Carcinogenicity

| Ingredient(s) | Effect |
|---|---|
| Propan-2-ol | No evidence for carcinogenicity, negative test results |
| Heptanal, 2-(phenylmethylene)-, (E)- | No data available |
| 2-benzylideneheptanal | No data available |
| alpha-hexylcinnamaldehyde | No data available |
| 2-Buten-1-one, 1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-, [1.alpha.(E),2.beta.]- | No data available |

Toxicity for reproduction

| Ingredient(s) | Endpoint | Specific effect | Value (mg/kg bw/d) | Species | Method | Exposure time | Remarks and other effects reported |
|---|---|---|---|---|---|---|---|
| Propan-2-ol | | | No data available | | | | |
| Heptanal, 2-(phenylmethylene)-, (E)- | | | No data available | | | | |
| 2-benzylideneheptanal | | | No data available | | | | |
| alpha-hexylcinnamaldehyde | | | No data available | | | | |
| 2-Buten-1-one, 1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-, [1.alpha.(E),2.beta.]- | | | No data available | | | | |

### Repeated dose toxicity

Sub-acute or sub-chronic oral toxicity

| Ingredient(s) | Endpoint | Value (mg/kg bw/d) | Species | Method | Exposure time (days) | Specific effects and organs affected |
|---|---|---|---|---|---|---|
| Propan-2-ol | | No data available | | | | |
| Heptanal, 2-(phenylmethylene)-, (E)- | | No data available | | | | |
| 2-benzylideneheptanal | | No data available | | | | |
| alpha-hexylcinnamaldehyde | | No data available | | | | |
| 2-Buten-1-one, 1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-, [1.alpha.(E),2.beta.]- | | No data available | | | | |

Sub-chronic dermal toxicity

| Ingredient(s) | Endpoint | Value (mg/kg bw/d) | Species | Method | Exposure time (days) | Specific effects and organs affected |
|---|---|---|---|---|---|---|

| | | | | | | |
|---|---|---|---|---|---|---|
| Propan-2-ol | | No data available | | | | |
| Heptanal, 2-(phenylmethylene)-, (E)- | | No data available | | | | |
| 2-benzylideneheptanal | | No data available | | | | |
| alpha-hexylcinnamaldehyde | | No data available | | | | |
| 2-Buten-1-one, 1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-, [1.alpha.(E),2.beta.]- | | No data available | | | | |

Sub-chronic inhalation toxicity

| Ingredient(s) | Endpoint | Value (mg/kg bw/d) | Species | Method | Exposure time (days) | Specific effects and organs affected |
|---|---|---|---|---|---|---|
| Propan-2-ol | | No data available | | | | |
| Heptanal, 2-(phenylmethylene)-, (E)- | | No data available | | | | |
| 2-benzylideneheptanal | | No data available | | | | |
| alpha-hexylcinnamaldehyde | | No data available | | | | |
| 2-Buten-1-one, 1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-, [1.alpha.(E),2.beta.]- | | No data available | | | | |

Chronic toxicity

| Ingredient(s) | Exposure route | Endpoint | Value (mg/kg bw/d) | Species | Method | Exposure time | Specific effects and organs affected | Remark |
|---|---|---|---|---|---|---|---|---|
| Propan-2-ol | | | No data available | | | | | |
| Heptanal, 2-(phenylmethylene)-, (E)- | | | No data available | | | | | |
| 2-benzylideneheptanal | | | No data available | | | | | |
| alpha-hexylcinnamaldehyde | | | No data available | | | | | |
| 2-Buten-1-one, 1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-, [1.alpha.(E),2.beta.]- | | | No data available | | | | | |

STOT-single exposure

| Ingredient(s) | Affected organ(s) |
|---|---|
| Propan-2-ol | Central nervous system |
| Heptanal, 2-(phenylmethylene)-, (E)- | No data available |
| 2-benzylideneheptanal | No data available |
| alpha-hexylcinnamaldehyde | No data available |
| 2-Buten-1-one, 1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-, [1.alpha.(E),2.beta.]- | No data available |

STOT-repeated exposure

| Ingredient(s) | Affected organ(s) |
|---|---|
| Propan-2-ol | No data available |
| Heptanal, 2-(phenylmethylene)-, (E)- | No data available |
| 2-benzylideneheptanal | No data available |
| alpha-hexylcinnamaldehyde | No data available |
| 2-Buten-1-one, 1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-, [1.alpha.(E),2.beta.]- | No data available |

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

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

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

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

## SECTION 12: Ecological information

### 12.1 Toxicity

No data is available on the mixture .

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

**Aquatic short-term toxicity**

Aquatic short-term toxicity - fish

| Ingredient(s) | Endpoint | Value (mg/l) | Species | Method | Exposure time (h) |
|---|---|---|---|---|---|
| Propan-2-ol | $LC_{50}$ | > 100 | *Pimephales promelas* | Method not given | 48 |
| Heptanal, 2-(phenylmethylene)-, (E)- | $LC_{50}$ | 3 | *Brachydanio rerio* | Method not given | 96 |
| 2-benzylideneheptanal | | No data available | | | |
| alpha-hexylcinnamaldehyde | | No data available | | | |
| 2-Buten-1-one, 1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-, [1.alpha.(E),2.beta.]- | | No data available | | | |

Aquatic short-term toxicity - crustacea

| Ingredient(s) | Endpoint | Value (mg/l) | Species | Method | Exposure time (h) |
|---|---|---|---|---|---|
| Propan-2-ol | $EC_{50}$ | > 100 | *Daphnia magna Straus* | Method not given | 48 |
| Heptanal, 2-(phenylmethylene)-, (E)- | $EC_{50}$ | 1.1 | *Daphnia magna Straus* | OECD 202, static | 48 |
| 2-benzylideneheptanal | | No data available | | | |
| alpha-hexylcinnamaldehyde | | No data available | | | |
| 2-Buten-1-one, 1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-, [1.alpha.(E),2.beta.]- | | No data available | | | |

Aquatic short-term toxicity - algae

| Ingredient(s) | Endpoint | Value (mg/l) | Species | Method | Exposure time (h) |
|---|---|---|---|---|---|
| Propan-2-ol | $EC_{50}$ | > 100 | *Scenedesmus quadricauda* | Method not given | 72 |
| Heptanal, 2-(phenylmethylene)-, (E)- | | No data available | | | |
| 2-benzylideneheptanal | | No data available | | | |
| alpha-hexylcinnamaldehyde | | No data available | | | |
| 2-Buten-1-one, 1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-, [1.alpha.(E),2.beta.]- | | No data available | | | |

Aquatic short-term toxicity - marine species

| Ingredient(s) | Endpoint | Value (mg/l) | Species | Method | Exposure time (days) |
|---|---|---|---|---|---|
| Propan-2-ol | | No data available | | | |
| Heptanal, 2-(phenylmethylene)-, (E)- | | No data available | | | |
| 2-benzylideneheptanal | | No data available | | | |
| alpha-hexylcinnamaldehyde | | No data available | | | |
| 2-Buten-1-one, 1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-, [1.alpha.(E),2.beta.]- | | No data available | | | |

Impact on sewage plants - toxicity to bacteria

| Ingredient(s) | Endpoint | Value (mg/l) | Inoculum | Method | Exposure time |
|---|---|---|---|---|---|
| Propan-2-ol | $EC_{50}$ | > 1000 | *Activated sludge* | Method not given | |
| Heptanal, 2-(phenylmethylene)-, (E)- | | No data available | | | |
| 2-benzylideneheptanal | | No data available | | | |
| alpha-hexylcinnamaldehyde | | No data available | | | |
| 2-Buten-1-one, 1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-, [1.alpha.(E),2.beta.]- | | No data available | | | |

### Aquatic long-term toxicity

Aquatic long-term toxicity - fish

| Ingredient(s) | Endpoint | Value (mg/l) | Species | Method | Exposure time | Effects observed |
|---|---|---|---|---|---|---|
| Propan-2-ol | | No data available | | | | |
| Heptanal, 2-(phenylmethylene)-, (E)- | NOEC | 0.00384 | *Brachydanio rerio* | OECD 210 | 35 day(s) | |
| 2-benzylideneheptanal | | No data available | | | | |
| alpha-hexylcinnamaldehyde | | No data available | | | | |
| 2-Buten-1-one, 1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-, [1.alpha.(E),2.beta.]- | | No data available | | | | |

Aquatic long-term toxicity - crustacea

| Ingredient(s) | Endpoint | Value (mg/l) | Species | Method | Exposure time | Effects observed |
|---|---|---|---|---|---|---|
| Propan-2-ol | | No data available | | | | |
| Heptanal, 2-(phenylmethylene)-, (E)- | NOEC | > 0.011 | *Daphnia magna* | OECD 211, semi-static | 21 day(s) | |
| 2-benzylideneheptanal | | No data available | | | | |
| alpha-hexylcinnamaldehyde | | No data available | | | | |
| 2-Buten-1-one, 1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-, [1.alpha.(E),2.beta.]- | | No data available | | | | |

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

| Ingredient(s) | Endpoint | Value (mg/kg dw sediment) | Species | Method | Exposure time (days) | Effects observed |
|---|---|---|---|---|---|---|
| Propan-2-ol | | No data available | | | | |
| Heptanal, 2-(phenylmethylene)-, (E)- | | No data available | | | | |
| 2-benzylideneheptanal | | No data available | | | | |
| alpha-hexylcinnamaldehyde | | No data available | | | | |
| 2-Buten-1-one, 1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-, [1.alpha.(E),2.beta.]- | | No data available | | | | |

### Terrestrial toxicity

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

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

Terrestrial toxicity - plants, if available:

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

Terrestrial toxicity - birds, if available:

| Ingredient(s) | Endpoint | Value | Species | Method | Exposure time (days) | Effects observed |
|---|---|---|---|---|---|---|
| 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 |
|---|---|---|---|---|---|---|
| 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 |
|---|---|---|---|---|---|---|

| | | | | | | |
|---|---|---|---|---|---|---|
| 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 |
|---|---|---|---|---|
| Propan-2-ol | No data available | | | |

Abiotic degradation - hydrolysis, if available:

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

Abiotic degradation - other processes, if available:

| Ingredient(s) | Type | Half-life time | Method | Evaluation | Remark |
|---|---|---|---|---|---|
| Propan-2-ol | | No data available | | | |

**Biodegradation**

Ready biodegradability - aerobic conditions

| Ingredient(s) | Inoculum | Analytical method | $DT_{50}$ | Method | Evaluation |
|---|---|---|---|---|---|
| Propan-2-ol | | | 95 % in 21 day(s) | OECD 301E | Readily biodegradable |
| Heptanal, 2-(phenylmethylene)-, (E)- | Activated sludge, aerobe | Oxygen depletion | 90 % in 28 day(s) | OECD 301F | Readily biodegradable |
| 2-benzylideneheptanal | | | | | Not readily biodegradable. |
| alpha-hexylcinnamaldehyde | | | | | Not readily biodegradable. |
| 2-Buten-1-one, 1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-, [1.alpha.(E),2.beta.]- | | | | OECD 301C | Not readily biodegradable. |

Ready biodegradability - anaerobic and marine conditions, if available:

| Ingredient(s) | Medium & Type | Analytical method | $DT_{50}$ | Method | Evaluation |
|---|---|---|---|---|---|
| Propan-2-ol | | | | | No data available |

Degradation in relevant environmental compartments, if available:

| Ingredient(s) | Medium & Type | Analytical method | $DT_{50}$ | Method | Evaluation |
|---|---|---|---|---|---|
| Propan-2-ol | | | | | No data available |

### 12.3 Bioaccumulative potential

Partition coefficient n-octanol/water (log Kow)

| Ingredient(s) | Value | Method | Evaluation | Remark |
|---|---|---|---|---|
| Propan-2-ol | 0.05 | OECD 107 | No bioaccumulation expected | |
| Heptanal, 2-(phenylmethylene)-, (E)- | No data available | | | |
| 2-benzylideneheptanal | No data available | | | |
| alpha-hexylcinnamaldehyde | No data available | | | |
| 2-Buten-1-one, 1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-, [1.alpha.(E),2.beta.]- | No data available | | | |

Bioconcentration factor (BCF)

| Ingredient(s) | Value | Species | Method | Evaluation | Remark |
|---|---|---|---|---|---|
| Propan-2-ol | No data available | | | | |
| Heptanal, 2-(phenylmethylene)-, (E)- | No data available | | | | |
| 2-benzylideneheptanal | No data available | | | | |
| alpha-hexylcinnamaldehyde | No data available | | | | |
| 2-Buten-1-one, 1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-, [1.alpha.(E),2.beta.]- | 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 |
|---|---|---|---|---|---|
| Propan-2-ol | No data available | | | | Potential for mobility in soil, soluble in water |

| | | | | | |
|---|---|---|---|---|---|
| Heptanal, 2-(phenylmethylene)-, (E)- | No data available | | | | |
| 2-benzylideneheptanal | No data available | | | | |
| alpha-hexylcinnamaldehyde | No data available | | | | |
| 2-Buten-1-one, 1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-, [1.alpha.(E),2.beta.]- | No data available | | | | |

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

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

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

## SECTION 13: Disposal considerations

**13.1 Waste treatment methods**

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

**European Waste Catalogue:** 20 01 30 - detergents other than those mentioned in 20 01 29.

**Empty packaging**

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

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

## SECTION 14: Transport information

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

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

## SECTION 15: Regulatory information

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

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

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

**Ingredients according to Detergents Regulation**
cationic surfactants 5 - 15 %
perfumes , Amyl Cinnamal, Hexyl Cinnamal, Benzyl Salicylate, Alpha-Isomethyl Ionone, Limonene, Benzisothiazolinone, Benzyl Alcohol

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

**Comah - classification:** Not classified

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

## SECTION 16: Other information

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

**SDS code:** MSDS6030 **Version:** 12.1 **Revision:** 2024-08-08

**Reason for revision:**
Overall design adjusted in accordance with Amendment 2020/878, Annex II of Regulation (EC) No 1907/2006, This data sheet contains changes from the previous version in section(s):, 1, 3, 4, 6, 7, 8, 9, 11, 12, 15, 16

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

**Abbreviations and acronyms:**
• AISE - The international Association for Soaps, Detergents and Maintenance Products
• ATE - Acute Toxicity Estimate
• DNEL - Derived No Effect Limit
• EC50 - effective concentration, 50%
• ERC - Environmental release categories
• EUH - CLP Specific hazard statement
• LC50 - Lethal Concentration, 50% / Median Lethal Concentration
• LCS - Life cycle stage
• LD50 - Lethal Dose, 50% / Median Lethal dose
• NOAEL - No observed adverse effect level
• NOEL - No observed effect level
• OECD - Organisation for Economic Cooperation and Development
• PBT - Persistent, Bioaccumulative and Toxic
• PNEC - Predicted No Effect Concentration
• PROC - Process categories
• REACH number - REACH registration number, without supplier specific part
• vPvB - very Persistent and very Bioaccumulative
• H225 - Highly flammable liquid and vapour.
• H302 - Harmful if swallowed.
• H315 - Causes skin irritation.
• H317 - May cause an allergic skin reaction.
• H319 - Causes serious eye irritation.
• H336 - May cause drowsiness or dizziness.
• H400 - Very toxic to aquatic life.
• H410 - Very toxic to aquatic life with long lasting effects.
• H411 - Toxic to aquatic life with long lasting effects.

**End of Safety Data Sheet**