



Good Sense Summer (Barrettes; Plaque)

Revision: 2018-01-25

Version: 05.1

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

1.1 Product identifier

Trade name: Good Sense Summer (Barrettes; Plaque)

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

Identified uses:

AISE-C18 - Air fresheners non-aerosol

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

1.3 Details of the supplier of the safety data sheet

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

Contact details

Diversey Ltd

Weston Favell Centre, Northampton NN3 8PD, United Kingdom

Tel: 01604 405311, Fax: 01604 406809

Regulatory Email: customerservice.uk@diversey.com

1.4 Emergency telephone number

For medical or environmental emergency only:

call 0800 052 0185

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Eye Irrit. 2 (H319)

Skin Sens. 1 (H317)

Aquatic Chronic 2 (H411)

2.2 Label elements



Signal word: Warning.

Contains [3R-(3 α ,3 α β ,7 β ,8 α)]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one (Acetyl Cedrene), eugenol (Eugenol), geraniol (Geraniol), citral (Citral).

Hazard statements:

H319 - Causes serious eye irritation.

H317 - May cause an allergic skin reaction.

H411 - Toxic 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.

P280 - Wear protective gloves.

P501 - Dispose of unused content as chemical waste.

2.3 Other hazards

No other hazards known

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

Good Sense Summer (Barrettes; Plaque)

| Ingredient(s) | EC number | CAS number | REACH number | Classification | Notes | Weight percent |
|---|-----------|------------|-------------------|---|-------|----------------|
| 2-phenylethanol | 200-456-2 | 60-12-8 | No data available | Acute Tox. 3 (H311) Acute Tox. 4 (H302) Eye Irrit. 2 (H319) | | 10-20 |
| [3R-(3 α ,3a β ,7 β ,8a α)]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one | 251-020-3 | 32388-55-9 | No data available | Skin Sens. 1B (H317) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410) | | 10-20 |
| eugenol | 202-589-1 | 97-53-0 | No data available | Eye Irrit. 2 (H319) Skin Sens. 1B (H317) | | 1-3 |
| geraniol | 203-377-1 | 106-24-1 | No data available | Skin Irrit. 2 (H315) Eye Dam. 1 (H318) Skin Sens. 1 (H317) | | 1-3 |
| citral | 226-394-6 | 5392-40-5 | No data available | Skin Irrit. 2 (H315) Skin Sens. 1 (H317) | | 0.1-1 |
| (-)-pin-2(3)-ene | 232-077-3 | 7785-26-4 | No data available | Flam. Liq. 3 (H226) Asp. Tox. 1 (H304) Skin Irrit. 2 (H315) Skin Sens. 1B (H317) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410) | | 0.1-1 |

* Polymer.

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

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

[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.

[2] Exempted: included in Annex IV of Regulation (EC) No 1907/2006.

[3] Exempted: Annex V of Regulation (EC) No 1907/2006.

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

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.

Inhalation:

Get medical attention or advice if you feel unwell.

Skin contact:

Wash skin with plenty of lukewarm, gently flowing water. Take off immediately all contaminated clothing and wash it before re-use. If skin irritation occurs: Get medical advice or attention.

Eye contact:

Immediately rinse eyes cautiously with lukewarm water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If irritation occurs and persists, get medical attention.

Ingestion:

Immediately drink 1 glass of water. 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:

May cause an allergic skin reaction.

Eye contact:

Causes severe irritation.

Ingestion:

No known effects or symptoms in normal use.

4.3 Indication of any immediate medical attention and special treatment needed

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

SECTION 5: Firefighting measures

5.1 Extinguishing media

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

5.2 Special hazards arising from the substance or mixture

No special hazards known.

5.3 Advice for firefighters

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

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear suitable gloves.

6.2 Environmental precautions

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

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Collect mechanically.

6.4 Reference to other sections

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

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Measures to prevent fire and explosions:

No special precautions required.

Measures required to protect the environment:

For environmental exposure controls see subsection 8.2.

Advices on general occupational hygiene:

Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs. Do not mix with other products unless advised by Diversey. Wash hands before breaks and at the end of workday. Wash face, hands and any exposed skin thoroughly after handling. Take off immediately all contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Use personal protective equipment as required. Use only with adequate ventilation.

7.2 Conditions for safe storage, including any incompatibilities

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

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:

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 oral exposure - Consumer (mg/kg bw)

| Ingredient(s) | Short term - Local effects | Short term - Systemic effects | Long term - Local effects | Long term - Systemic effects |
|---|----------------------------|-------------------------------|---------------------------|------------------------------|
| 2-phenylethanol | No data available | No data available | No data available | No data available |
| [3R-(3 α ,3a β ,7 β ,8a α)]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one | No data available | No data available | No data available | No data available |
| eugenol | No data available | No data available | No data available | No data available |
| geraniol | No data available | No data available | No data available | No data available |
| citral | No data available | No data available | No data available | No data available |
| (-)-pin-2(3)-ene | No data available | No data available | No data available | No data available |

DNEL 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) |
|---|----------------------------|--|---------------------------|---|
| 2-phenylethanol | No data available | No data available | No data available | No data available |
| [3R-(3 α ,3a β ,7 β ,8a α)]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one | No data available | No data available | No data available | No data available |
| eugenol | No data available | No data available | No data available | No data available |
| geraniol | No data available | No data available | No data available | No data available |
| citral | No data available | No data available | No data available | No data available |
| (-)-pin-2(3)-ene | No data available | No data available | No data available | No data available |

DNEL 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) |
|---|----------------------------|--|---------------------------|---|
| 2-phenylethanol | No data available | No data available | No data available | No data available |
| [3R-(3 α ,3a β ,7 β ,8a α)]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one | No data available | No data available | No data available | No data available |
| eugenol | No data available | No data available | No data available | No data available |
| geraniol | No data available | No data available | No data available | No data available |
| citral | No data available | No data available | No data available | No data available |
| (-)-pin-2(3)-ene | No data available | No data available | No data available | No data available |

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| | | | | |
|--|--|--|--|--|
| | | | | |
|--|--|--|--|--|

DNEL inhalatory exposure - Worker (mg/m³)

| Ingredient(s) | Short term - Local effects | Short term - Systemic effects | Long term - Local effects | Long term - Systemic effects |
|--|----------------------------|-------------------------------|---------------------------|------------------------------|
| 2-phenylethanol | No data available | No data available | No data available | No data available |
| [3R-(3 α ,3 α β ,7 β ,8 α)]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one | No data available | No data available | No data available | No data available |
| eugenol | No data available | No data available | No data available | No data available |
| geraniol | No data available | No data available | No data available | No data available |
| citral | No data available | No data available | No data available | No data available |
| (-)-pin-2(3)-ene | No data available | No data available | No data available | No data available |

DNEL inhalatory exposure - Consumer (mg/m³)

| Ingredient(s) | Short term - Local effects | Short term - Systemic effects | Long term - Local effects | Long term - Systemic effects |
|--|----------------------------|-------------------------------|---------------------------|------------------------------|
| 2-phenylethanol | No data available | No data available | No data available | No data available |
| [3R-(3 α ,3 α β ,7 β ,8 α)]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one | No data available | No data available | No data available | No data available |
| eugenol | No data available | No data available | No data available | No data available |
| geraniol | No data available | No data available | No data available | No data available |
| citral | No data available | No data available | No data available | No data available |
| (-)-pin-2(3)-ene | 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) |
|--|-----------------------------|------------------------------|---------------------|-------------------------------|
| 2-phenylethanol | No data available | No data available | No data available | No data available |
| [3R-(3 α ,3 α β ,7 β ,8 α)]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one | No data available | No data available | No data available | No data available |
| eugenol | No data available | No data available | No data available | No data available |
| geraniol | No data available | No data available | No data available | No data available |
| citral | No data available | No data available | No data available | No data available |
| (-)-pin-2(3)-ene | 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/m ³) |
|--|------------------------------|--------------------------|-------------------|--------------------------|
| 2-phenylethanol | No data available | No data available | No data available | No data available |
| [3R-(3 α ,3 α β ,7 β ,8 α)]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one | No data available | No data available | No data available | No data available |
| eugenol | No data available | No data available | No data available | No data available |
| geraniol | No data available | No data available | No data available | No data available |
| citral | No data available | No data available | No data available | No data available |
| (-)-pin-2(3)-ene | 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.

Personal protective equipment

Eye / face protection: No special requirements under normal use conditions.
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: \geq 480 min
 Material thickness: \geq 0.7 mm
 Suggested gloves for protection against splashes: Material: nitrile rubber Penetration time: \geq 30 min
 Material thickness: \geq 0.4 mm
 In consultation with the supplier of protective gloves a different type providing similar protection may be chosen.
Body protection: No special requirements under normal use conditions.
Respiratory protection: No special requirements under normal use conditions.

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: Solid | |
| Colour: Clear, Pale, Orange | |
| Odour: Perfumed | |
| Odour threshold: Not applicable | |
| pH: | |
| Melting point/freezing point (°C): Not determined | Not relevant to classification of this product |
| Initial boiling point and boiling range (°C): Not determined | |

Substance data, boiling point

| Ingredient(s) | Value (°C) | Method | Atmospheric pressure (hPa) |
|---|-------------------|--------|----------------------------|
| 2-phenylethanol | No data available | | |
| [3R-(3 α ,3 β ,7 β ,8 $\alpha\alpha$)]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one | No data available | | |
| eugenol | No data available | | |
| geraniol | No data available | | |
| citral | No data available | | |
| (-)-pin-2(3)-ene | No data available | | |

Method / remark

Flash point (°C): Not applicable.
Sustained combustion: Not applicable.
(UN Manual of Tests and Criteria, section 32, L.2)
Evaporation rate: Not determined
Flammability (solid, gas): Not determined
Upper/lower flammability limit (%): Not determined

Substance data, flammability or explosive limits, if available:

Method / remark

Vapour pressure: Not determined

Substance data, vapour pressure

| Ingredient(s) | Value (Pa) | Method | Temperature (°C) |
|---|-------------------|--------|------------------|
| 2-phenylethanol | No data available | | |
| [3R-(3 α ,3 β ,7 β ,8 $\alpha\alpha$)]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one | No data available | | |
| eugenol | No data available | | |
| geraniol | No data available | | |
| citral | No data available | | |
| (-)-pin-2(3)-ene | No data available | | |

Method / remark

Vapour density: Not determined
Relative density: \approx 0.95 (20 °C)
Solubility in / Miscibility with Water: Insoluble

Substance data, solubility in water

| Ingredient(s) | Value (g/l) | Method | Temperature (°C) |
|---|-------------------|--------|------------------|
| 2-phenylethanol | No data available | | |
| [3R-(3 α ,3 β ,7 β ,8 $\alpha\alpha$)]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one | No data available | | |
| eugenol | No data available | | |
| geraniol | No data available | | |
| citral | No data available | | |
| (-)-pin-2(3)-ene | No data available | | |

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

Method / remark

Autoignition temperature: Not determined
Decomposition temperature: Not applicable.
Viscosity: Not determined
Explosive properties: Not explosive.
Oxidising properties: Not oxidising.

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9.2 Other information**Surface tension (N/m):** Not determined

Not relevant to classification of this product

Corrosion to metals: Not determined

Not applicable to solids or gases

Substance data, dissociation constant, if 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): >2000

ATE - Dermal (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) |
|---|------------------|-------------------|---------|--------|-------------------|
| 2-phenylethanol | LD ₅₀ | 1610 | | | |
| [3R-(3 α ,3 $\alpha\beta$,7 β ,8 $\alpha\alpha$)]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one | | No data available | | | |
| eugenol | | No data available | | | |
| geraniol | | No data available | | | |
| citral | | No data available | | | |
| (-)-pin-2(3)-ene | | No data available | | | |

Acute dermal toxicity

| Ingredient(s) | Endpoint | Value (mg/kg) | Species | Method | Exposure time (h) |
|---|------------------|-------------------|---------|--------|-------------------|
| 2-phenylethanol | LD ₅₀ | 2500 | | | |
| [3R-(3 α ,3 $\alpha\beta$,7 β ,8 $\alpha\alpha$)]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one | | No data available | | | |
| eugenol | | No data available | | | |
| geraniol | | No data available | | | |
| citral | | No data available | | | |
| (-)-pin-2(3)-ene | | No data available | | | |

Acute inhalative toxicity

| Ingredient(s) | Endpoint | Value (mg/l) | Species | Method | Exposure time (h) |
|-----------------|----------|--------------|---------|--------|-------------------|
| 2-phenylethanol | | No data | | | |

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| | | | | |
|---|--|-------------------|--|--|
| | | available | | |
| [3R-(3 α ,3 $\alpha\beta$,7 β ,8 $\alpha\alpha$)]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one | | No data available | | |
| eugenol | | No data available | | |
| geraniol | | No data available | | |
| citral | | No data available | | |
| (-)-pin-2(3)-ene | | No data available | | |

Irritation and corrosivity

Skin irritation and corrosivity

| Ingredient(s) | Result | Species | Method | Exposure time |
|---|-------------------|---------|--------|---------------|
| 2-phenylethanol | No data available | | | |
| [3R-(3 α ,3 $\alpha\beta$,7 β ,8 $\alpha\alpha$)]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one | No data available | | | |
| eugenol | No data available | | | |
| geraniol | No data available | | | |
| citral | No data available | | | |
| (-)-pin-2(3)-ene | No data available | | | |

Eye irritation and corrosivity

| Ingredient(s) | Result | Species | Method | Exposure time |
|---|-------------------|---------|--------|---------------|
| 2-phenylethanol | No data available | | | |
| [3R-(3 α ,3 $\alpha\beta$,7 β ,8 $\alpha\alpha$)]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one | No data available | | | |
| eugenol | No data available | | | |
| geraniol | No data available | | | |
| citral | No data available | | | |
| (-)-pin-2(3)-ene | No data available | | | |

Respiratory tract irritation and corrosivity

| Ingredient(s) | Result | Species | Method | Exposure time |
|---|-------------------|---------|--------|---------------|
| 2-phenylethanol | No data available | | | |
| [3R-(3 α ,3 $\alpha\beta$,7 β ,8 $\alpha\alpha$)]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one | No data available | | | |
| eugenol | No data available | | | |
| geraniol | No data available | | | |
| citral | No data available | | | |
| (-)-pin-2(3)-ene | No data available | | | |

Sensitisation

Sensitisation by skin contact

| Ingredient(s) | Result | Species | Method | Exposure time (h) |
|---|-------------------|---------|--------|-------------------|
| 2-phenylethanol | No data available | | | |
| [3R-(3 α ,3 $\alpha\beta$,7 β ,8 $\alpha\alpha$)]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one | No data available | | | |
| eugenol | No data available | | | |
| geraniol | No data available | | | |
| citral | No data available | | | |
| (-)-pin-2(3)-ene | No data available | | | |

Sensitisation by inhalation

| Ingredient(s) | Result | Species | Method | Exposure time |
|---|-------------------|---------|--------|---------------|
| 2-phenylethanol | No data available | | | |
| [3R-(3 α ,3 $\alpha\beta$,7 β ,8 $\alpha\alpha$)]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one | No data available | | | |
| eugenol | No data available | | | |
| geraniol | No data available | | | |
| citral | No data available | | | |
| (-)-pin-2(3)-ene | 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) |
|---|-------------------|-------------------|-------------------|------------------|
| 2-phenylethanol | No data available | | No data available | |
| [3R-(3 α ,3 $\alpha\beta$,7 β ,8 $\alpha\alpha$)]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one | No data available | | No data available | |

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| | | | | |
|------------------|-------------------|--|-------------------|--|
| eugenol | No data available | | No data available | |
| geraniol | No data available | | No data available | |
| citral | No data available | | No data available | |
| (-)-pin-2(3)-ene | No data available | | No data available | |

Carcinogenicity

| Ingredient(s) | Effect |
|---|-------------------|
| 2-phenylethanol | No data available |
| [3R-(3 α ,3 β ,7 β ,8 α)]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one | No data available |
| eugenol | No data available |
| geraniol | No data available |
| citral | No data available |
| (-)-pin-2(3)-ene | 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 |
|---|----------|-----------------|--------------------|---------|--------|---------------|------------------------------------|
| 2-phenylethanol | | | No data available | | | | |
| [3R-(3 α ,3 β ,7 β ,8 α)]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one | | | No data available | | | | |
| eugenol | | | No data available | | | | |
| geraniol | | | No data available | | | | |
| citral | | | No data available | | | | |
| (-)-pin-2(3)-ene | | | 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 |
|---|----------|--------------------|---------|--------|----------------------|--------------------------------------|
| 2-phenylethanol | | No data available | | | | |
| [3R-(3 α ,3 β ,7 β ,8 α)]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one | | No data available | | | | |
| eugenol | | No data available | | | | |
| geraniol | | No data available | | | | |
| citral | | No data available | | | | |
| (-)-pin-2(3)-ene | | 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 |
|---|----------|--------------------|---------|--------|----------------------|--------------------------------------|
| 2-phenylethanol | | No data available | | | | |
| [3R-(3 α ,3 β ,7 β ,8 α)]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one | | No data available | | | | |
| eugenol | | No data available | | | | |
| geraniol | | No data available | | | | |
| citral | | No data available | | | | |
| (-)-pin-2(3)-ene | | 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 |
|---|----------|--------------------|---------|--------|----------------------|--------------------------------------|
| 2-phenylethanol | | No data available | | | | |
| [3R-(3 α ,3 β ,7 β ,8 α)]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one | | No data available | | | | |
| eugenol | | No data available | | | | |
| geraniol | | No data available | | | | |
| citral | | No data available | | | | |

Good Sense Summer (Barrettes; Plaque)

| | | | | | | |
|------------------|--|-------------------|--|--|--|--|
| (-)-pin-2(3)-ene | | 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 |
|---|----------------|----------|--------------------|---------|--------|---------------|--------------------------------------|--------|
| 2-phenylethanol | | | No data available | | | | | |
| [3R-(3 α ,3 β ,7 β ,8 α)]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one | | | No data available | | | | | |
| eugenol | | | No data available | | | | | |
| geraniol | | | No data available | | | | | |
| citral | | | No data available | | | | | |
| (-)-pin-2(3)-ene | | | No data available | | | | | |

STOT-single exposure

| Ingredient(s) | Affected organ(s) |
|---|-------------------|
| 2-phenylethanol | No data available |
| [3R-(3 α ,3 β ,7 β ,8 α)]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one | No data available |
| eugenol | No data available |
| geraniol | No data available |
| citral | No data available |
| (-)-pin-2(3)-ene | No data available |

STOT-repeated exposure

| Ingredient(s) | Affected organ(s) |
|---|-------------------|
| 2-phenylethanol | No data available |
| [3R-(3 α ,3 β ,7 β ,8 α)]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one | No data available |
| eugenol | No data available |
| geraniol | No data available |
| citral | No data available |
| (-)-pin-2(3)-ene | No data available |

Aspiration hazard

Substances with an aspiration hazard (H304), if any, are listed in section 3. If relevant, see section 9 for dynamic viscosity and relative density of the product.

Potential adverse health effects and symptoms

Effects and symptoms related to the product, if any, are listed in subsection 4.2.

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) |
|---|----------|-------------------|---------|--------|-------------------|
| 2-phenylethanol | | No data available | | | |
| [3R-(3 α ,3 β ,7 β ,8 α)]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one | | No data available | | | |
| eugenol | | No data available | | | |
| geraniol | | No data available | | | |
| citral | | No data available | | | |
| (-)-pin-2(3)-ene | | No data available | | | |

Aquatic short-term toxicity - crustacea

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

Good Sense Summer (Barrettes; Plaque)

| | | | | | |
|---|--|-------------------|--|--|--|
| 2-phenylethanol | | No data available | | | |
| [3R-(3 α ,3 $\alpha\beta$,7 β ,8 $\alpha\alpha$)]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one | | No data available | | | |
| eugenol | | No data available | | | |
| geraniol | | No data available | | | |
| citral | | No data available | | | |
| (-)-pin-2(3)-ene | | No data available | | | |

Aquatic short-term toxicity - algae

| Ingredient(s) | Endpoint | Value (mg/l) | Species | Method | Exposure time (h) |
|---|----------|-------------------|---------|--------|-------------------|
| 2-phenylethanol | | No data available | | | |
| [3R-(3 α ,3 $\alpha\beta$,7 β ,8 $\alpha\alpha$)]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one | | No data available | | | |
| eugenol | | No data available | | | |
| geraniol | | No data available | | | |
| citral | | No data available | | | |
| (-)-pin-2(3)-ene | | No data available | | | |

Aquatic short-term toxicity - marine species

| Ingredient(s) | Endpoint | Value (mg/l) | Species | Method | Exposure time (days) |
|---|----------|-------------------|---------|--------|----------------------|
| 2-phenylethanol | | No data available | | | |
| [3R-(3 α ,3 $\alpha\beta$,7 β ,8 $\alpha\alpha$)]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one | | No data available | | | |
| eugenol | | No data available | | | |
| geraniol | | No data available | | | |
| citral | | No data available | | | |
| (-)-pin-2(3)-ene | | No data available | | | |

Impact on sewage plants - toxicity to bacteria

| Ingredient(s) | Endpoint | Value (mg/l) | Inoculum | Method | Exposure time |
|---|----------|-------------------|----------|--------|---------------|
| 2-phenylethanol | | No data available | | | |
| [3R-(3 α ,3 $\alpha\beta$,7 β ,8 $\alpha\alpha$)]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one | | No data available | | | |
| eugenol | | No data available | | | |
| geraniol | | No data available | | | |
| citral | | No data available | | | |
| (-)-pin-2(3)-ene | | No data available | | | |

Aquatic long-term toxicity

Aquatic long-term toxicity - fish

| Ingredient(s) | Endpoint | Value (mg/l) | Species | Method | Exposure time | Effects observed |
|---|----------|-------------------|---------|--------|---------------|------------------|
| 2-phenylethanol | | No data available | | | | |
| [3R-(3 α ,3 $\alpha\beta$,7 β ,8 $\alpha\alpha$)]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one | | No data available | | | | |
| eugenol | | No data available | | | | |
| geraniol | | No data available | | | | |
| citral | | No data available | | | | |
| (-)-pin-2(3)-ene | | No data available | | | | |

Aquatic long-term toxicity - crustacea

| Ingredient(s) | Endpoint | Value (mg/l) | Species | Method | Exposure time | Effects observed |
|-----------------|----------|--------------|---------|--------|---------------|------------------|
| 2-phenylethanol | | No data | | | | |

Good Sense Summer (Barrettes; Plaque)

| | | | | | | |
|---|--|-------------------|--|--|--|--|
| | | available | | | | |
| [3R-(3 α ,3 β ,7 β ,8 α)]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one | | No data available | | | | |
| eugenol | | No data available | | | | |
| geraniol | | No data available | | | | |
| citral | | No data available | | | | |
| (-)-pin-2(3)-ene | | 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 |
|---|----------|---------------------------|---------|--------|----------------------|------------------|
| 2-phenylethanol | | No data available | | | | |
| [3R-(3 α ,3 β ,7 β ,8 α)]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one | | No data available | | | | |
| eugenol | | No data available | | | | |
| geraniol | | No data available | | | | |
| citral | | No data available | | | | |
| (-)-pin-2(3)-ene | | No data available | | | | |

Terrestrial toxicity

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

Terrestrial toxicity - plants, if available:

Terrestrial toxicity - birds, if available:

Terrestrial toxicity - beneficial insects, if available:

Terrestrial toxicity - soil bacteria, if available:

12.2 Persistence and degradability**Abiotic degradation**

Abiotic degradation - photodegradation in air, if available:

Abiotic degradation - hydrolysis, if available:

Abiotic degradation - other processes, if available:

Biodegradation

Ready biodegradability - aerobic conditions

| Ingredient(s) | Inoculum | Analytical method | DT ₅₀ | Method | Evaluation |
|---|--------------------------|-------------------|------------------|-----------|----------------------------|
| 2-phenylethanol | Activated sludge, aerobe | | 78.61% | OECD 301B | Readily biodegradable |
| [3R-(3 α ,3 β ,7 β ,8 α)]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one | | | | OECD 301F | Not readily biodegradable. |
| eugenol | | | | | Readily biodegradable |
| geraniol | | | | OECD 301F | Readily biodegradable |
| citral | | | | OECD 301F | Readily biodegradable |
| (-)-pin-2(3)-ene | | | | | No data available |

Ready biodegradability - anaerobic and marine conditions, if available:

Degradation in relevant environmental compartments, if available:

12.3 Bioaccumulative potential

Partition coefficient n-octanol/water (log Kow)

| Ingredient(s) | Value | Method | Evaluation | Remark |
|---|-------------------|--------|------------|--------|
| 2-phenylethanol | No data available | | | |
| [3R-(3 α ,3 β ,7 β ,8 α)]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one | No data available | | | |
| eugenol | No data available | | | |
| geraniol | No data available | | | |
| citral | No data available | | | |
| (-)-pin-2(3)-ene | No data available | | | |

Good Sense Summer (Barrettes; Plaque)

Bioconcentration factor (BCF)

| Ingredient(s) | Value | Species | Method | Evaluation | Remark |
|---|-------------------|---------|--------|------------|--------|
| 2-phenylethanol | No data available | | | | |
| [3R-(3 α ,3 β ,7 β ,8 α)]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one | No data available | | | | |
| eugenol | No data available | | | | |
| geraniol | No data available | | | | |
| citral | No data available | | | | |
| (-)-pin-2(3)-ene | 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 |
|---|--------------------------------|-------------------------------------|--------|--------------------|------------|
| 2-phenylethanol | No data available | | | | |
| [3R-(3 α ,3 β ,7 β ,8 α)]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one | No data available | | | | |
| eugenol | No data available | | | | |
| geraniol | No data available | | | | |
| citral | No data available | | | | |
| (-)-pin-2(3)-ene | 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 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 05* - organic wastes containing dangerous substances.

Empty packaging

Recommendation:

Dispose of observing national or local regulations.

SECTION 14: Transport information



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

14.1 UN number: 3077

14.2 UN proper shipping name:

Environmentally hazardous substance, solid, n.o.s. (Acetyl Cedrene)

14.3 Transport hazard class(es):

Class: 9

Label(s): 9

14.4 Packing group: III

14.5 Environmental hazards:

Environmentally hazardous: Yes

Marine pollutant: Yes

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: M7

Tunnel restriction code: E

Hazard identification number: 90

Good Sense Summer (Barrettes; Plaque)

IMO/IMDG

EmS: F-A, S-F

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 dangerous goods packed in small quantities classified under UN3077 or UN3082.

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

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

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

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: MSDS5391

Version: 05.1

Revision: 2018-01-25

Reason for revision:

This data sheet contains changes from the previous version in section(s): 2, 3, 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:

- H226 - Flammable liquid and vapour.
- H302 - Harmful if swallowed.
- H304 - May be fatal if swallowed and enters airways.
- H311 - Toxic in contact with skin.
- H315 - Causes skin irritation.
- H317 - May cause an allergic skin reaction.
- H318 - Causes serious eye damage.
- H319 - Causes serious eye irritation.
- H400 - Very toxic to aquatic life.
- H410 - Very toxic to aquatic life with long lasting effects.

Abbreviations and acronyms:

- AISE - The international Association for Soaps, Detergents and Maintenance Products
- DNEL - Derived No Effect Limit
- EUH - CLP Specific hazard statement
- PBT - Persistent, Bioaccumulative and Toxic
- PNEC - Predicted No Effect Concentration
- REACH number - REACH registration number, without supplier specific part
- vPvB - very Persistent and very Bioaccumulative
- ATE - Acute Toxicity Estimate

End of Safety Data Sheet