

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Ariel Washing Caps 4in1 +Touch of Lenor Unstoppables

Revision date: 16.04.2024

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SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

Ariel Washing Caps 4in1 +Touch of Lenor Unstoppables

UFI: GM5C-D0YM-W005-8539

1.2. Relevant identified uses of the substance or mixture and uses advised against**Use of the substance/mixture**

Laundry detergent

Uses advised against

Any non-intended use.

1.3. Details of the supplier of the safety data sheet

| | | |
|-------------------------|--------------------------------|-------------------------------|
| Company name: | Procter & Gamble France S.A.S. | |
| Street: | 163 quai Aulagnier | |
| Place: | F-92665 Asnières Cedex | |
| Telephone: | +33 (0)1.40.88.55.11 | Telefax: +33 (0)1.40.88.58.58 |
| Responsible Department: | pgsds.im@pg.com | |

1.4. Emergency telephone number:

Emergency Action: In the event of a medical enquiry involving this product, please contact your doctor or local hospital accident and emergency department or the NHS enquiry service.

Further Information

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (amended by Regulation (EU) No 2020/878)

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture****Regulation (EC) No 1272/2008**

Skin Irrit. 2; H315
 Eye Dam. 1; H318
 Aquatic Chronic 3; H412

Full text of hazard statements: see SECTION 16.

2.2. Label elements**Regulation (EC) No 1272/2008**

Signal word: Danger

Pictograms:

**Hazard statements**

| | |
|------|--|
| H315 | Causes skin irritation. |
| H318 | Causes serious eye damage. |
| H412 | Harmful to aquatic life with long lasting effects. |

Precautionary statements

| | |
|----------------|--|
| P102 | Keep out of reach of children. |
| P301+P330+P331 | IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. |
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P302+P352 | IF ON SKIN: Wash with plenty of water. |
| P310 | Immediately call a POISON CENTER/doctor. |

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P501 Dispose of contents/container to local/regional/national/international regulations.

Special labelling of certain mixtures

EUH208 Contains 2,4-Dimethyl-3-cyclohexene-1-carbaldehyde, 3-(4-isobutyl-2-methylphenyl)propanal, (R)-p-mentha-1,8-diene; D-limonene, (2E)-2-(phenylmethylidene)octanal, benzyl salicylate, linalool; 3,7-dimethyl-1,6-octadien-3-ol; dl-linalool, hexyl salicylate, reaction mass of 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one and 1-(1,2,3,4,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one and 1-(1,2,3,5,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one, [1a(E),2β]-1-(2,6,6-trimethylcyclohex-3-en-1-yl)but-2-en-1-one. May produce an allergic reaction.

Additional advice on labelling

Consumer use: Labelling for contents according to regulation (EC) No. 648/2004: Refer to section 3

2.3. Other hazards

Endocrine disrupting properties: benzyl salicylate.

The substances in the mixture (> 0.1%) do not meet the PBT/vPvB criteria according to REACH, annex XIII.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Relevant ingredients

| CAS No | Chemical name | | | Quantity |
|--------------|--|--------------|------------------|-----------|
| | EC No | Index No | REACH No | |
| | Classification (Regulation (EC) No 1272/2008) | | | |
| 85480-55-3 | Benzenesulfonic acid, mono-C10-13-alkyl derivs., compds. with ethanolamine | | | > 30 % |
| | 287-335-8 | | 01-2119905842-39 | |
| | Acute Tox. 4, Skin Irrit. 2, Eye Dam. 1, Aquatic Chronic 3; H302 H315 H318 H412 | | | |
| 68184-04-3 | MEA C12-16 AE3 sulfate/MEA laureth-3 sulfate | | | 10 - 20 % |
| | 680-805-7 | | | |
| | Skin Irrit. 2, Eye Dam. 1, Aquatic Chronic 3; H315 H318 H412 | | | |
| 68439-50-9 | Alcohols, C12-14, ethoxylated | | | 1 - 5 % |
| | Acute Tox. 4, Eye Dam. 1, Aquatic Chronic 3; H302 H318 H412 | | | |
| 68039-49-6 | 2,4-Dimethyl-3-cyclohexene-1-carbaldehyde | | | 0 - 1 % |
| | 268-264-1 | | 01-2119982384-28 | |
| | Skin Irrit. 2, Skin Sens. 1B, Aquatic Chronic 2; H315 H317 H411 | | | |
| 68551-12-2 | C12-16 Alcohols, ethoxylated | | | 0 - 1 % |
| | Eye Irrit. 2, Aquatic Acute 1, Aquatic Chronic 3; H319 H400 H412 | | | |
| 1637294-12-2 | 3-(4-isobutyl-2-methylphenyl)propanal | | | 0 - 1 % |
| | 811-285-3 | | 01-2120103156-71 | |
| | Skin Irrit. 2, Skin Sens. 1B, Aquatic Chronic 2; H315 H317 H411 | | | |
| 5989-27-5 | (R)-p-mentha-1,8-diene; D-limonene | | | 0 - 1 % |
| | 227-813-5 | 601-096-00-2 | 01-2119529223-47 | |
| | Flam. Liq. 3, Skin Irrit. 2, Skin Sens. 1B, Asp. Tox. 1, Aquatic Acute 1, Aquatic Chronic 3; H226 H315 H317 H304 H400 H412 | | | |
| 165184-98-5 | (2E)-2-(phenylmethylidene)octanal | | | 0 - 1 % |
| | 639-566-4 | | 01-2119533092-50 | |
| | Skin Sens. 1, Aquatic Acute 1, Aquatic Chronic 2; H317 H400 H411 | | | |
| 118-58-1 | benzyl salicylate | | | 0 - 1 % |
| | 204-262-9 | 607-754-00-5 | 01-2119969442-31 | |

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| | Eye Irrit. 2, Skin Sens. 1B, Aquatic Chronic 3; H319 H317 H412 | |
| 78-70-6 | linalool; 3,7-dimethyl-1,6-octadien-3-ol; dl-linalool | 0 - 1 % |
| | 201-134-4 | 603-235-00-2 |
| | 01-2119474016-42 | |
| | Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1B; H315 H319 H317 | |
| 6259-76-3 | hexyl salicylate | 0 - 1 % |
| | 228-408-6 | 01-2119638275-36 |
| | Skin Sens. 1B, Aquatic Chronic 1; H317 H410 | |
| 54464-57-2 | reaction mass of 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one and 1-(1,2,3,4,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one and 1-(1,2,3,5,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one | 0 - 1 % |
| | 259-174-3 | 01-2119489989-04 |
| | Skin Irrit. 2, Skin Sens. 1B, Aquatic Chronic 1; H315 H317 H410 | |
| 71048-82-3 | [1a(E),2β]-1-(2,6,6-trimethylcyclohex-3-en-1-yl)but-2-en-1-one | 0 - 1 % |
| | 275-156-8 | 01-2119535122-53 |
| | Acute Tox. 4, Skin Irrit. 2, Skin Sens. 1A, Aquatic Acute 1, Aquatic Chronic 1; H302 H315 H317 H400 H410 | |

Full text of H and EUH statements: see section 16.

Specific Conc. Limits, M-factors and ATE

| CAS No | EC No | Chemical name | Quantity |
|--------------|-----------|--|----------|
| | | Specific Conc. Limits, M-factors and ATE | |
| 85480-55-3 | 287-335-8 | Benzenesulfonic acid, mono-C10-13-alkyl derivs., compds. with ethanolamine | > 30 % |
| | | dermal: LD50 = >2000 mg/kg; oral: LD50 = 1570 mg/kg | |
| 68439-50-9 | | Alcohols, C12-14, ethoxylated | 1 - 5 % |
| | | dermal: LD50 = > 2000 mg/kg; oral: LD50 = 600 - 10000 mg/kg | |
| 1637294-12-2 | 811-285-3 | 3-(4-isobutyl-2-methylphenyl)propanal | 0 - 1 % |
| | | dermal: LD50 = > 2000 mg/kg; oral: LD50 = > 2000 mg/kg | |
| 5989-27-5 | 227-813-5 | (R)-p-mentha-1,8-diene; D-limonene | 0 - 1 % |
| | | dermal: LD50 = > 5000 mg/kg; oral: LD50 = > 2000 mg/kg Aquatic Acute 1; H400: M=1 | |
| 165184-98-5 | 639-566-4 | (2E)-2-(phenylmethylidene)octanal | 0 - 1 % |
| | | inhalation: LC50 = (>2,12) mg/l (vapours); dermal: LD50 = (>3000) mg/kg; oral: LD50 = (3100) mg/kg Aquatic Acute 1; H400: M=1 | |
| 118-58-1 | 204-262-9 | benzyl salicylate | 0 - 1 % |
| | | dermal: LD50 = > 2000 mg/kg; oral: LD50 = 3339 mg/kg | |
| 78-70-6 | 201-134-4 | linalool; 3,7-dimethyl-1,6-octadien-3-ol; dl-linalool | 0 - 1 % |
| | | dermal: LD50 = 5610 mg/kg; oral: LD50 = 2790 mg/kg | |
| 6259-76-3 | 228-408-6 | hexyl salicylate | 0 - 1 % |
| | | dermal: LD50 = > 5000 mg/kg; oral: LD50 = > 5000 mg/kg | |
| 54464-57-2 | 259-174-3 | reaction mass of 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one and 1-(1,2,3,4,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one and 1-(1,2,3,5,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one | 0 - 1 % |
| | | dermal: LD50 = >5000 mg/kg; oral: LD50 = 5000 mg/kg | |
| 71048-82-3 | 275-156-8 | [1a(E),2β]-1-(2,6,6-trimethylcyclohex-3-en-1-yl)but-2-en-1-one | 0 - 1 % |
| | | dermal: LD50 = (>=5000) mg/kg; oral: LD50 = (1400) mg/kg Aquatic Acute 1; H400: M=1 | |

Labelling for contents according to Regulation (EC) No 648/2004

>= 30 % anionic surfactants, < 5 % non-ionic surfactants, perfumes (Limonene, Hexyl cinnamal, Benzyl salicylate, Linalool).

Further Information

Product does not contain listed SVHC substances > 0.1 % according to Regulation (EC) No. 1907/2006 Article 59 (REACH).

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SECTION 4: First aid measures

4.1. Description of first aid measures

General information

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

After inhalation

In case of accident by inhalation: remove casualty to fresh air and keep at rest. In case of respiratory tract irritation, consult a physician.

After contact with skin

Gently wash with plenty of soap and water. In case of skin irritation, seek medical treatment.

After contact with eyes

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. In case of troubles or persistent symptoms, consult an ophthalmologist.

After ingestion

Rinse mouth thoroughly with water. Let water be drunken in little sips (dilution effect). Do NOT induce vomiting. In all cases of doubt, or when symptoms persist, seek medical advice.

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

See sections 2 and 11

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Carbon dioxide (CO₂). Dry extinguishing powder. Alcohol resistant foam. Atomized water.

Unsuitable extinguishing media

High power water jet.

5.2. Special hazards arising from the substance or mixture

Can be released in case of fire: Carbon monoxide. Carbon dioxide (CO₂).

5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

Co-ordinate fire-fighting measures to the fire surroundings.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General advice

Safe handling: see section 7

High slip hazard because of leaking or spilled product.

For non-emergency personnel

Wear personal protection equipment (refer to section 8).

For emergency responders

No special measures are necessary.

6.2. Environmental precautions

Discharge into the environment must be avoided.

6.3. Methods and material for containment and cleaning up

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For containment

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).
Treat the recovered material as prescribed in the section on waste disposal.

For cleaning up

Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4. Reference to other sections

Safe handling: see section 7
Personal protection equipment: see section 8
Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Wear suitable protective clothing. See section 8.

Advice on protection against fire and explosion

Usual measures for fire prevention.

Advice on general occupational hygiene

Always close containers tightly after the removal of product. When using do not eat, drink or smoke. Wash hands before breaks and after work.

Further information on handling

General protection and hygiene measures: See section 8.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed in a cool, well-ventilated place.

Hints on joint storage

Do not store together with: Explosives. Oxidizing solids. Oxidizing liquids. Radioactive substances. Infectious substances. Food and animal feedingstuff.

Further information on storage conditions

Keep the packing dry and well sealed to prevent contamination and absorption of humidity.
Recommended storage temperature: 20 °C
Protect against: frost. UV-radiation/sunlight. heat. Humidity

7.3. Specific end use(s)

See section 1.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

DNEL/DMEL values

| CAS No | Substance | Exposure route | Effect | Value |
|--------------------------|--|----------------|----------|------------------------|
| 85480-55-3 | Benzenesulfonic acid, mono-C10-13-alkyl derivs., compds. with ethanolamine | | | |
| Worker DNEL, long-term | | dermal | systemic | 119 mg/kg bw/day |
| Worker DNEL, long-term | | inhalation | systemic | 6,71 mg/m ³ |
| Consumer DNEL, long-term | | oral | systemic | 0,425 mg/kg bw/day |
| Consumer DNEL, long-term | | inhalation | systemic | 1,18 mg/m ³ |
| Consumer DNEL, long-term | | inhalation | local | 3 mg/m ³ |

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| Consumer DNEL, long-term | dermal | systemic | 42,5 mg/kg bw/day |
| 1637294-12-2 | 3-(4-isobutyl-2-methylphenyl)propanal | | |
| Worker DNEL, long-term | inhalation | systemic | 2,47 mg/m ³ |
| Worker DNEL, long-term | dermal | systemic | 0,83 mg/kg bw/day |
| Consumer DNEL, long-term | inhalation | systemic | 0,435 mg/m ³ |
| Consumer DNEL, long-term | dermal | systemic | 0,42 mg/kg bw/day |
| Consumer DNEL, long-term | oral | systemic | 0,25 mg/kg bw/day |
| 5989-27-5 | (R)-p-mentha-1,8-diene; D-limonene | | |
| Worker DNEL, long-term | inhalation | systemic | 66,7 mg/m ³ |
| Worker DNEL, long-term | dermal | systemic | 9,5 mg/kg bw/day |
| Consumer DNEL, long-term | inhalation | systemic | 16,6 mg/m ³ |
| Consumer DNEL, long-term | dermal | systemic | 4,8 mg/kg bw/day |
| Consumer DNEL, long-term | oral | systemic | 4,8 mg/kg bw/day |
| 165184-98-5 | (2E)-2-(phenylmethylidene)octanal | | |
| Worker DNEL, long-term | inhalation | systemic | 0,078 mg/m ³ |
| Worker DNEL, acute | inhalation | local | 6,28 mg/m ³ |
| Worker DNEL, long-term | dermal | systemic | 18,2 mg/kg bw/day |
| Worker DNEL, long-term | dermal | local | 0,525 mg/cm ² |
| Worker DNEL, acute | dermal | local | 0,525 mg/cm ² |
| Consumer DNEL, long-term | inhalation | systemic | 0,019 mg/m ³ |
| Consumer DNEL, acute | inhalation | local | 4,71 mg/m ³ |
| Consumer DNEL, long-term | dermal | systemic | 9,11 mg/kg bw/day |
| Consumer DNEL, long-term | dermal | local | 0,0787 mg/cm ² |
| Consumer DNEL, acute | dermal | local | 0,0787 mg/cm ² |
| Consumer DNEL, long-term | oral | systemic | 0,056 mg/kg bw/day |
| 118-58-1 | benzyl salicylate | | |
| Worker DNEL, long-term | inhalation | systemic | 7,8 mg/m ³ |
| Worker DNEL, long-term | dermal | systemic | 2,21 mg/kg bw/day |
| Consumer DNEL, long-term | inhalation | systemic | 1,37 mg/m ³ |
| Consumer DNEL, long-term | dermal | systemic | 0,79 mg/kg bw/day |
| Consumer DNEL, long-term | oral | systemic | 0,79 mg/kg bw/day |
| 78-70-6 | linalool; 3,7-dimethyl-1,6-octadien-3-ol; dl-linalool | | |
| Worker DNEL, long-term | inhalation | systemic | 2,8 mg/m ³ |
| Worker DNEL, acute | inhalation | systemic | 16,5 mg/m ³ |
| Worker DNEL, long-term | dermal | systemic | 2,5 mg/kg bw/day |
| Worker DNEL, acute | dermal | systemic | 5 mg/kg bw/day |
| Worker DNEL, long-term | dermal | local | 3 mg/cm ² |

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| Worker DNEL, acute | dermal | local | 3 mg/cm ² |
| Consumer DNEL, long-term | inhalation | systemic | 0,7 mg/m ³ |
| Consumer DNEL, acute | inhalation | systemic | 4,1 mg/m ³ |
| Consumer DNEL, long-term | dermal | systemic | 1,25 mg/kg bw/day |
| Consumer DNEL, acute | dermal | systemic | 2,5 mg/kg bw/day |
| Consumer DNEL, long-term | dermal | local | 1,5 mg/cm ² |
| Consumer DNEL, acute | dermal | local | 1,5 mg/cm ² |
| Consumer DNEL, long-term | oral | systemic | 0,2 mg/kg bw/day |
| Consumer DNEL, acute | oral | systemic | 1,2 mg/kg bw/day |
| 6259-76-3 | hexyl salicylate | | |
| Consumer DNEL, long-term | oral | systemic | 0,3 mg/kg bw/day |
| Worker DNEL, long-term | inhalation | systemic | 1,7 mg/m ³ |
| Worker DNEL, long-term | dermal | systemic | 6,4 mg/kg bw/day |
| Consumer DNEL, long-term | inhalation | systemic | 0,4 mg/m ³ |
| Consumer DNEL, long-term | dermal | systemic | 3,2 mg/kg bw/day |
| 54464-57-2 | reaction mass of 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one and 1-(1,2,3,4,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one and 1-(1,2,3,5,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one | | |
| Worker DNEL, long-term | dermal | local | 0,648 mg/cm ² |
| Worker DNEL, long-term | dermal | systemic | 3,6 mg/kg bw/day |
| Worker DNEL, long-term | inhalation | systemic | 7,33 mg/m ³ |
| Consumer DNEL, long-term | inhalation | systemic | 2,16 mg/m ³ |
| Consumer DNEL, long-term | dermal | systemic | 2,15 mg/kg bw/day |
| Consumer DNEL, long-term | dermal | local | 0,38 mg/cm ² |
| Consumer DNEL, long-term | oral | systemic | 1,25 mg/kg bw/day |

PNEC values

| CAS No | Substance | Value |
|--------------|--|--------------|
| 85480-55-3 | Benzenesulfonic acid, mono-C10-13-alkyl derivs., compds. with ethanolamine | |
| | Freshwater | 0,268 mg/l |
| | Freshwater (intermittent releases) | 0,022 mg/l |
| | Marine water | 0,027 mg/l |
| | Freshwater sediment | 8,1 mg/kg |
| | Marine sediment | 0,81 mg/kg |
| | Micro-organisms in sewage treatment plants (STP) | 3,43 mg/l |
| | Soil | 35 mg/kg |
| 1637294-12-2 | 3-(4-isobutyl-2-methylphenyl)propanal | |
| | Freshwater | 0,0064 mg/l |
| | Freshwater (intermittent releases) | 0,0101 mg/l |
| | Marine water | 0,00064 mg/l |
| | Freshwater sediment | 1,3 mg/kg |

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| Marine sediment | 0,13 mg/kg |
| Secondary poisoning | 5 mg/kg |
| Micro-organisms in sewage treatment plants (STP) | 1 mg/l |
| Soil | 0,256 mg/kg |
| 5989-27-5 | (R)-p-mentha-1,8-diene; D-limonene |
| Freshwater | 0,014 mg/l |
| Marine water | 0,0014 mg/l |
| Freshwater sediment | 3,85 mg/kg |
| Marine sediment | 0,385 mg/kg |
| Secondary poisoning | 133 mg/kg |
| Micro-organisms in sewage treatment plants (STP) | 1,8 mg/l |
| Soil | 0,763 mg/kg |
| 165184-98-5 | (2E)-2-(phenylmethylidene)octanal |
| Freshwater | 0.001 mg/l |
| Marine water | 0.0001 mg/l |
| Marine water (intermittent releases) | 0,064 mg/kg |
| Freshwater sediment | 3,2 mg/kg |
| Secondary poisoning | 6,6 mg/kg |
| Micro-organisms in sewage treatment plants (STP) | 10 mg/l |
| Soil | 0.398 mg/kg |
| 118-58-1 | benzyl salicylate |
| Freshwater | 0,001 mg/l |
| Freshwater (intermittent releases) | 0,01 mg/l |
| Marine water | 0 mg/l |
| Freshwater sediment | 0,583 mg/kg |
| Marine sediment | 0,058 mg/kg |
| Secondary poisoning | 52,7 mg/kg |
| Micro-organisms in sewage treatment plants (STP) | 10 mg/l |
| Soil | 1,41 mg/kg |
| 78-70-6 | linalool; 3,7-dimethyl-1,6-octadien-3-ol; dl-linalool |
| Freshwater | 0,2 mg/l |
| Freshwater (intermittent releases) | 2 mg/l |
| Marine water | 0,02 mg/l |
| Freshwater sediment | 2,22 mg/kg |
| Marine sediment | 0,222 mg/kg |
| Secondary poisoning | 7,8 mg/kg |
| Micro-organisms in sewage treatment plants (STP) | 10 mg/l |
| Soil | 0,327 mg/kg |
| 6259-76-3 | hexyl salicylate |
| Freshwater | 0 mg/l |
| Freshwater (intermittent releases) | 0,004 mg/l |
| Marine water | 0 mg/l |
| Freshwater sediment | 0,272 mg/kg |

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| Marine sediment | 0,027 mg/kg |
| Micro-organisms in sewage treatment plants (STP) | 10 mg/l |
| Soil | 0,054 mg/kg |
| 54464-57-2 | reaction mass of 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one and 1-(1,2,3,4,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one and 1-(1,2,3,5,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one |
| Freshwater | 0,0028 mg/l |
| Freshwater (intermittent releases) | 0,013 mg/l |
| Marine water | 0,00028 mg/l |
| Freshwater sediment | 3,73 mg/kg |
| Marine sediment | 0,75 mg/kg |
| Secondary poisoning | 10 mg/kg |
| Soil | 0,705 mg/kg |

Additional advice on limit values

To date, no national critical limit values exist.

8.2. Exposure controls



Appropriate engineering controls

Technical measures and the application of suitable work processes have priority over personal protection equipment.

Provide adequate ventilation.

Individual protection measures, such as personal protective equipment

Eye/face protection

Wear safety glasses; chemical goggles (if splashing is possible). EN ISO 16321-1:2022

Hand protection

Wear suitable gloves.

Suitable material:

FKM (fluororubber). - Thickness of glove material: 0,4 mm

Breakthrough time \geq 8 h

Butyl rubber. - Thickness of glove material: 0,5 mm

Breakthrough time \geq 8 h

CR (polychloroprenes, Chloroprene rubber). - Thickness of glove material: 0,5 mm

Breakthrough time \geq 8 h

NBR (Nitrile rubber). - Thickness of glove material: 0,35 mm

Breakthrough time \geq 8 h

PVC (Polyvinyl chloride). - Thickness of glove material: 0,5 mm

Breakthrough time \geq 8 h

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

The selected protective gloves have to satisfy the specifications of EU Directive EC/2016/425 and the standard EN 374 derived from it.

Check leak tightness/impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well.

Skin protection

Suitable protective clothing: Lab apron.

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Respiratory protection

With correct and proper use, and under normal conditions, breathing protection is not required.

Respiratory protection necessary at:

- Exceeding exposure limit values
- Insufficient ventilation and aerosol or mist formation

Suitable respiratory protective equipment: particulates filter device (DIN EN 143). type: P1-3

Half-face mask or quarter facepiece: maximum use concentration for substances with exposure limits: P1 filter: up to a max. of 4 times the exposure limit. P2 filter: up to a max. of 10 times the exposure limit. P3 filter: up to a max. of 30 times the expo.

The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used.

Environmental exposure controls

Do not allow uncontrolled discharge of product into the environment.

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

| | | |
|---|----------------|----------------|
| Physical state: | liquid | |
| Colour: | coloured | |
| Odour: | characteristic | |
| Odour threshold: | not determined | |
| Melting point/freezing point: | | not determined |
| Boiling point or initial boiling point and boiling range: | | > 90 °C |
| Flammability: | | not determined |
| Lower explosion limits: | | not determined |
| Upper explosion limits: | | not determined |
| Flash point: | | > 93 °C |
| Auto-ignition temperature: | | not determined |
| Decomposition temperature: | | not relevant |
| pH-Value: | | 7 - 8 |
| Viscosity / kinematic: | | not determined |
| Water solubility: | | not determined |
| Solubility in other solvents | | not determined |
| Dissolution rate: | | not relevant |
| Partition coefficient n-octanol/water: | | not relevant |
| Dispersion stability: | | not relevant |
| Vapour pressure: | | not determined |
| Density: | | not determined |
| Relative density: | | 1 |
| Bulk density: | | not relevant |
| Relative vapour density: | | not determined |
| Particle characteristics: | | not relevant |

9.2. Other information**Information with regard to physical hazard classes**

| | | |
|---------------------------|--|---------------------------|
| Explosive properties | | |
| none | | |
| Sustaining combustion: | | Not sustaining combustion |
| Self-ignition temperature | | |
| Solid: | | not relevant |
| Gas: | | not relevant |

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Oxidizing properties
none

Other safety characteristics

| | |
|--------------------------|----------------|
| Evaporation rate: | not determined |
| Solvent separation test: | not determined |
| Solvent content: | not determined |
| Solid content: | not determined |
| Sublimation point: | not relevant |
| Softening point: | not relevant |
| Pour point: | not relevant |
| Viscosity / dynamic: | not determined |
| Flow time: | not determined |

Further Information

No information available.

SECTION 10: Stability and reactivity

10.1. Reactivity

No information available.

10.2. Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature.

10.3. Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.
Refer to section 10.5.

10.4. Conditions to avoid

Protect against: UV-radiation/sunlight. heat.

10.5. Incompatible materials

Materials to avoid: Oxidizing agents, strong. Reducing agents, strong.

10.6. Hazardous decomposition products

Does not decompose when used for intended uses.

SECTION 11: Toxicological information

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

Toxicokinetics, metabolism and distribution

No data available.

Acute toxicity

Based on available data, the classification criteria are not met.

ATEmix calculated

ATE (oral) 4814 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) > 5 mg/l

| CAS No | Chemical name | | | | |
|------------|--|---------------|---------|--------|--------------|
| | Exposure route | Dose | Species | Source | Method |
| 85480-55-3 | Benzenesulfonic acid, mono-C10-13-alkyl derivs., compds. with ethanolamine | | | | |
| | oral | LD50 mg/kg | 1570 | Rat | ECHA Dossier |
| | dermal | LD50 mg/kg | >2000 | Rat | ECHA Dossier |
| 68439-50-9 | Alcohols, C12-14, ethoxylated | | | | |

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| | | | | | |
|--------------|--|------------------------|---------|---------------------------|--------------------|
| | oral | LD50 600 - 10000 mg/kg | various | HERA Risk Assessment 2009 | |
| | dermal | LD50 > 2000 mg/kg | Rat | ECHA Dossier | OECD Guideline 402 |
| 1637294-12-2 | 3-(4-isobutyl-2-methylphenyl)propanal | | | | |
| | oral | LD50 > 2000 mg/kg | Rat | REACH Dossier | OECD Guideline 420 |
| | dermal | LD50 > 2000 mg/kg | Rat | REACH Dossier | OECD Guideline 402 |
| 5989-27-5 | (R)-p-mentha-1,8-diene; D-limonene | | | | |
| | oral | LD50 > 2000 mg/kg | Rat | REACH Dossier | OECD Guideline 423 |
| | dermal | LD50 > 5000 mg/kg | Rabbit | REACH Dossier | Read-across |
| 165184-98-5 | (2E)-2-(phenylmethylidene)octanal | | | | |
| | oral | LD50 (3100) mg/kg | Rat | REACH Dossier | |
| | dermal | LD50 (>3000) mg/kg | Rabbit | REACH Dossier | |
| | inhalation (4 h) vapour | LC50 (>2,12) mg/l | Rat | REACH Dossier | |
| 118-58-1 | benzyl salicylate | | | | |
| | oral | LD50 3339 mg/kg | Rat | REACH Dossier | EU Method B.1 |
| | dermal | LD50 > 2000 mg/kg | Rabbit | REACH Dossier | EU Method B.3 |
| 78-70-6 | linalool; 3,7-dimethyl-1,6-octadien-3-ol; dl-linalool | | | | |
| | oral | LD50 2790 mg/kg | Rat | REACH Dossier | OECD Guideline 401 |
| | dermal | LD50 5610 mg/kg | Rabbit | REACH Dossier | OECD Guideline 402 |
| 6259-76-3 | hexyl salicylate | | | | |
| | oral | LD50 > 5000 mg/kg | Rat | REACH Dossier | OECD Guideline 401 |
| | dermal | LD50 > 5000 mg/kg | Rabbit | REACH Dossier | OECD Guideline 402 |
| 54464-57-2 | reaction mass of 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one and 1-(1,2,3,4,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one and 1-(1,2,3,5,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one | | | | |
| | oral | LD50 5000 mg/kg | Rat | ECHA Dossier | |
| | dermal | LD50 >5000 mg/kg | Rat | ECHA Dossier | |
| 71048-82-3 | [1a(E),2β]-1-(2,6,6-trimethylcyclohex-3-en-1-yl)but-2-en-1-one | | | | |
| | oral | LD50 (1400) mg/kg | Mouse. | REACH Dossier | OECD 401 |
| | dermal | LD50 (>=5000) mg/kg | Rabbit | REACH Dossier | OECD 402 |

Irritation and corrosivity

Causes skin irritation.

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Causes serious eye damage.

Sensitising effects

Based on available data, the classification criteria are not met.

Contains 2,4-Dimethyl-3-cyclohexene-1-carbaldehyde, 3-(4-isobutyl-2-methylphenyl)propanal, (R)-p-mentha-1,8-diene; D-limonene, (2E)-2-(phenylmethylidene)octanal, benzyl salicylate, linalool; 3,7-dimethyl-1,6-octadien-3-ol; dl-linalool, hexyl salicylate, reaction mass of 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one and 1-(1,2,3,4,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one and 1-(1,2,3,5,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one, [1a(E),2β]-1-(2,6,6-trimethylcyclohex-3-en-1-yl)but-2-en-1-one. May produce an allergic reaction.

Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met.

STOT-single exposure

Based on available data, the classification criteria are not met.

STOT-repeated exposure

Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

Specific effects in experiment on an animal

No data available.

11.2. Information on other hazards

Endocrine disrupting properties

Endocrine disrupting properties: benzyl salicylate.

Other information

No data available.

SECTION 12: Ecological information

12.1. Toxicity

Harmful to aquatic life with long lasting effects.

| CAS No | Chemical name | | | | | |
|------------|--|-----------------------|-----------|---------------------|--------------|------------------------|
| | Aquatic toxicity | Dose | [h] [d] | Species | Source | Method |
| 85480-55-3 | Benzenesulfonic acid, mono-C10-13-alkyl derivs., compds. with ethanolamine | | | | | |
| | Acute fish toxicity | LC50 (1,67) mg/l | 96 h | Lepomis macrochirus | ECHA Dossier | |
| | Acute algae toxicity | ErC50 (3,1) mg/l | 72 h | Chlorella kessleri | ECHA Dossier | |
| | Acute crustacea toxicity | EC50 (2,9) mg/l | 48 h | Daphnia magna | ECHA Dossier | |
| | Fish toxicity | NOEC 3,2 mg/l | 28 d | Poecilia reticulata | ECHA Dossier | |
| | Crustacea toxicity | NOEC 0,59 mg/l | 21 d | Ceriodaphnia sp. | ECHA Dossier | |
| 68439-50-9 | Alcohols, C12-14, ethoxylated | | | | | |
| | Acute fish toxicity | LC50 1,2 mg/l | 96 h | Cyprinus carpio | ECHA Dossier | EU Method C.1 |
| | Acute crustacea toxicity | EC50 1,2 mg/l | 48 h | Daphnia magna | ECHA Dossier | EU-Guideline 92/69/EWG |
| | Fish toxicity | NOEC 0,11 - 0,28 mg/l | 10 d | Lepomis macrochirus | ECHA Dossier | |
| | Crustacea toxicity | NOEC 0,77 mg/l | 21 d | Daphnia magna | ECHA Dossier | |

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| | | | | | | |
|--------------|---|------------------|------------------|-------|-----------------------------------|-------------------------------------|
| 1637294-12-2 | 3-(4-isobutyl-2-methylphenyl)propanal | | | | | |
| | Acute fish toxicity | LC50 mg/l | 1,09 | 96 h | Danio rerio | REACH Dossier OECD Guideline 203 |
| | Acute algae toxicity | ErC50 mg/l | 1,55 | 72 h | Desmodesmus subspicatus | REACH Dossier OECD Guideline 201 |
| | Acute crustacea toxicity | EC50 mg/l | 1,01 | 48 h | Daphnia magna | REACH Dossier OECD Guideline 202 |
| | Crustacea toxicity | NOEC mg/l | 0,71 | 21 d | Daphnia magna | REACH Dossier OECD Guideline 211 |
| | Acute bacteria toxicity | EC50 mg/l () | > 100 | 3 h | synthetic sewage feed | REACH Dossier OECD Guideline 209 |
| 5989-27-5 | (R)-p-mentha-1,8-diene; D-limonene | | | | | |
| | Acute fish toxicity | LC50 mg/l | 0,72 | 96 h | Pimephales promelas | REACH Dossier OECD Guideline 203 |
| | Acute algae toxicity | ErC50 mg/l | 0,32 | 72 h | Raphidocelis subcapitata | REACH Dossier OECD Guideline 201 |
| | Acute crustacea toxicity | EC50 mg/l | 0,307 | 48 h | Daphnia magna | REACH Dossier OECD Guideline 202 |
| | Acute bacteria toxicity | EC50 () | 209 mg/l | 3 h | | REACH Dossier |
| 165184-98-5 | (2E)-2-(phenylmethylidene)octanal | | | | | |
| | Acute fish toxicity | LC50 mg/l | (1,7) | 96 h | Pimephales promelas | REACH Dossier |
| | Acute algae toxicity | ErC50 mg/l | [>0,065] | 72 h | Desmodesmus subspicatus | REACH Dossier |
| | Acute crustacea toxicity | EC50 mg/l | (0,59 - 0,36) | 48 h | Daphnia magna | REACH Dossier |
| | Crustacea toxicity | NOEC mg/l | (0,063) | 21 d | Daphnia magna | REACH Dossier |
| 118-58-1 | benzyl salicylate | | | | | |
| | Acute fish toxicity | LC50 mg/l | 1,03 | 96 h | Danio rerio | REACH Dossier EU Method C.1 |
| | Acute algae toxicity | ErC50 mg/l | 1,29 | 72 h | Raphidocelis subcapitata | REACH Dossier OECD Guideline 201 |
| | Acute crustacea toxicity | EC50 mg/l | 1,16 | 48 h | Daphnia magna | REACH Dossier OECD Guideline 202 |
| | Algae toxicity | NOEC mg/l | 0,502 | 3 d | Raphidocelis subcapitata | REACH Dossier OECD Guideline 201 |
| 78-70-6 | linalool; 3,7-dimethyl-1,6-octadien-3-ol; dl-linalool | | | | | |
| | Acute fish toxicity | LC50 mg/l | 27,8 | 96 h | Oncorhynchus mykiss | REACH Dossier OECD Guideline 203 |
| | Acute algae toxicity | ErC50 mg/l | 88,3 | 96 h | Desmodesmus subspicatus | REACH Dossier DIN 38412 L 9 |
| | Acute crustacea toxicity | EC50 mg/l | 59 mg/l | 48 h | Daphnia magna | REACH Dossier OECD Guideline 202 |
| | Acute bacteria toxicity | EC50 mg/l () | > 100 | 0,5 h | Activated sludge | REACH Dossier OECD Guideline 209 |
| 6259-76-3 | hexyl salicylate | | | | | |
| | Acute fish toxicity | LC50 mg/l | (1,34) | 96 h | Brachydanio rerio (zebra-fish) | REACH Dossier |
| | Acute algae toxicity | ErC50 mg/l | 0,61 | 72 h | Desmodesmus subspicatus | REACH Dossier OECD Guideline 201 |

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|------------|--|---------------|----------|------|------------------------------------|---------------|--|
| | Acute crustacea toxicity | EC50 mg/l | (0,357) | 48 h | Daphnia magna | REACH Dossier | |
| | Algae toxicity | NOEC mg/l | (0,15) | 3 d | Desmodesmus subspicatus | REACH Dossier | |
| | Crustacea toxicity | NOEC mg/l | (0,14) | 2 d | Daphnia magna | REACH Dossier | |
| 54464-57-2 | reaction mass of 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8-tetramethyl-2-naphthyl)ethan-1-one and 1-(1,2,3,4,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one and 1-(1,2,3,5,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one | | | | | | |
| | Acute fish toxicity | LC50 | 1,3 mg/l | 96 h | Lepomis macrochirus | ECHA Dossier | |
| | Acute algae toxicity | ErC50 mg/l | >2,6 | 72 h | Desmodesmus subspicatus | ECHA Dossier | |
| | Acute crustacea toxicity | EC50 mg/l | 1,38 | 48 h | Daphnia magna | ECHA Dossier | |
| | Fish toxicity | NOEC mg/l | 0,16 | 30 d | Danio rerio | ECHA Dossier | |
| | Crustacea toxicity | NOEC mg/l | 0,028 | 21 d | Daphnia magna | ECHA Dossier | |
| 71048-82-3 | [1a(E),2β]-1-(2,6,6-trimethylcyclohex-3-en-1-yl)but-2-en-1-one | | | | | | |
| | Acute fish toxicity | LC50 mg/l | (0,97) | 96 h | Oryzias latipes (Ricefish) | REACH Dossier | |
| | Acute algae toxicity | ErC50 mg/l | (4,54) | 72 h | Pseudokirchneriella subcapitata | REACH Dossier | |
| | Crustacea toxicity | NOEC mg/l | (0,35) | 21 d | Daphnia magna | REACH Dossier | |
| | Acute bacteria toxicity | EC50 () | 241 mg/l | 3 h | activated sludge | REACH Dossier | |

12.2. Persistence and degradability

The surfactants contained in this preparation comply with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents.

| CAS No | Chemical name | Method | Value | d | Source |
|-------------|--|---|-------|----|---------------|
| | | Evaluation | | | |
| 85480-55-3 | Benzenesulfonic acid, mono-C10-13-alkyl derivs., compds. with ethanolamine | OECD 301B/ ISO 9439/ EEC 92/69/V, C.4-C | 85% | 29 | ECHA Dossier |
| | Readily biodegradable (according to OECD criteria). | | | | |
| 68439-50-9 | Alcohols, C12-14, ethoxylated | OECD Guideline 301 F | 95% | 28 | ECHA Dossier |
| | Easily biodegradable (concerning to the criteria of the OECD) | | | | |
| 5989-27-5 | (R)-p-mentha-1,8-diene; D-limonene | OECD 301D / EEC 92/69 annex V, C.4-E | 80 % | 28 | REACH Dossier |
| | Easily biodegradable (concerning to the criteria of the OECD) | | | | |
| 165184-98-5 | (2E)-2-(phenylmethylidene)octanal | OECD 301F / ISO 9408 / EEC 92/69 annex V, C.4-D | 97% | 28 | REACH Dossier |
| | Readily biodegradable (according to OECD criteria). | | | | |
| 118-58-1 | benzyl salicylate | OECD 301F / ISO 9408 / EEC 92/69 annex V, C.4-D | 93% | 28 | REACH Dossier |
| | Easily biodegradable (concerning to the criteria of the OECD) | | | | |
| 78-70-6 | linalool; 3,7-dimethyl-1,6-octadien-3-ol; dl-linalool | OECD 301D / EEC 92/69 annex V, C.4-E | 64,2% | 28 | REACH Dossier |
| | Easily biodegradable (concerning to the criteria of the OECD) | | | | |

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|------------|--|-----|----|---------------|
| 6259-76-3 | hexyl salicylate | | | |
| | OECD 301F/ ISO 9408/ EEC 92/69/V, C.4-D | 91% | 28 | REACH Dossier |
| | Easily biodegradable (concerning to the criteria of the OECD) | | | |
| 54464-57-2 | reaction mass of 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one and 1-(1,2,3,4,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one and 1-(1,2,3,5,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one | | | |
| | OECD 301C / ISO 9408 / EEC 92/69 annex V, C.4-F | 0% | 28 | ECHA Dossier |
| | Not easily bio-degradable (according to OECD-criteria). | | | |
| 71048-82-3 | [1a(E),2β]-1-(2,6,6-trimethylcyclohex-3-en-1-yl)but-2-en-1-one | | | |
| | OECD 301C / ISO 9408 / EEC 92/69 annex V, C.4-F | 16% | 28 | REACH Dossier |
| | Not easily bio-degradable (according to OECD-criteria). | | | |

12.3. Bioaccumulative potential

Partition coefficient n-octanol/water

| CAS No | Chemical name | Log Pow |
|--------------|--|---------|
| 85480-55-3 | Benzenesulfonic acid, mono-C10-13-alkyl derivs., compds. with ethanolamine | 1,51 |
| 68439-50-9 | Alcohols, C12-14, ethoxylated | 6,1 |
| 1637294-12-2 | 3-(4-isobutyl-2-methylphenyl)propanal | 3,7 |
| 5989-27-5 | (R)-p-mentha-1,8-diene; D-limonene | 4,38 |
| 165184-98-5 | (2E)-2-(phenylmethylidene)octanal | 5,3 |
| 118-58-1 | benzyl salicylate | 4 |
| 78-70-6 | linalool; 3,7-dimethyl-1,6-octadien-3-ol; dl-linalool | 2,9 |
| 6259-76-3 | hexyl salicylate | 5,5 |
| 54464-57-2 | reaction mass of 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one and 1-(1,2,3,4,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one and 1-(1,2,3,5,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one | 5,65 |
| 71048-82-3 | [1a(E),2β]-1-(2,6,6-trimethylcyclohex-3-en-1-yl)but-2-en-1-one | 4,2 |

BCF

| CAS No | Chemical name | BCF | Species | Source |
|--------------|--|-------|---------------------|---------------|
| 68439-50-9 | Alcohols, C12-14, ethoxylated | 12,7 | Pimephales promelas | ECHA Dossier |
| 1637294-12-2 | 3-(4-isobutyl-2-methylphenyl)propanal | 66,4 | Oncorhynchus mykiss | REACH Dossier |
| 5989-27-5 | (R)-p-mentha-1,8-diene; D-limonene | 864,8 | | REACH Dossier |
| 118-58-1 | benzyl salicylate | 202 | Danio rerio | REACH Dossier |
| 6259-76-3 | hexyl salicylate | 8913 | | REACH Dossier |
| 71048-82-3 | [1a(E),2β]-1-(2,6,6-trimethylcyclohex-3-en-1-yl)but-2-en-1-one | 58,3 | Japanese carp | ECHA Dossier |

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

The aforementioned statement applies to substances contained in the product with a minimum content of 0.1%.

12.6. Endocrine disrupting properties

Endocrine disrupting properties: benzyl salicylate.

12.7. Other adverse effects

No data available.

Further information

Do not allow to enter into surface water or drains.

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SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Observe in addition any national regulations! Consult the local waste disposal expert about waste disposal.

Non-contaminated packages may be recycled.

According to (EWC) European Waste Catalogue, allocation of waste identity numbers/waste descriptions must be carried out in a specific way for every industry and process.

Control report for waste code/ waste marking according to (EWC) European Waste Catalogue:

List of Wastes Code - residues/unused products

200129 MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS; separately collected fractions (except 15 01); detergents containing hazardous substances; hazardous waste

List of Wastes Code - used product

200129 MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS; separately collected fractions (except 15 01); detergents containing hazardous substances; hazardous waste

List of Wastes Code - contaminated packaging

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by hazardous substances; hazardous waste

Contaminated packaging

Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number or ID number: No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name: No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es): No dangerous good in sense of this transport regulation.
14.4. Packing group: No dangerous good in sense of this transport regulation.

Inland waterways transport (ADN)

14.1. UN number or ID number: No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name: No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es): No dangerous good in sense of this transport regulation.
14.4. Packing group: No dangerous good in sense of this transport regulation.

Marine transport (IMDG)

14.1. UN number or ID number: No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name: No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es): No dangerous good in sense of this transport regulation.
14.4. Packing group: No dangerous good in sense of this transport regulation.

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number or ID number: No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name: No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es): No dangerous good in sense of this transport regulation.
14.4. Packing group: No dangerous good in sense of this transport regulation.

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

14.6. Special precautions for user

refer to section 6 - 8

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14.7. Maritime transport in bulk according to IMO instruments

not relevant

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

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 75

Directive 2010/75/EU on industrial emissions: not determined

Directive 2004/42/EC on VOC in paints and varnishes: not determined

Information according to Directive 2012/18/EU (SEVESO III): Not subject to 2012/18/EU (SEVESO III)

Additional information

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (amended by Regulation (EU) No 2020/878)

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

Regulation (EC) No. 648/2004 (Detergents regulation)

REACH 1907/2006 Appendix XVII, No (mixture): 3

National regulatory information

Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).

Water hazard class (D): 3 - highly hazardous to water

15.2. Chemical safety assessment

For the following substances of this mixture a chemical safety assessment has been carried out:

Benzenesulfonic acid, mono-C10-13-alkyl derivs., compds. with ethanolamine

(R)-p-mentha-1,8-diene; D-limonene

(2E)-2-(phenylmethylidene)octanal

benzyl salicylate

linalool; 3,7-dimethyl-1,6-octadien-3-ol; dl-linalool

hexyl salicylate

reaction mass of 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8-tetramethyl-2-naphthyl)ethan-1-one and 1-

(1,2,3,4,6,7,8,8a-octahydro-2,3,8-tetramethyl-2-naphthyl)ethan-1-one and 1-

(1,2,3,5,6,7,8,8a-octahydro-2,3,8-tetramethyl-2-naphthyl)ethan-1-one

SECTION 16: Other information**Changes**

Rev. 1,0; Initial release: 30.03.2023

This safety data sheet was created on the basis of an external product safety data sheet.

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Abbreviations and acronyms

Flam. Liq: Flammable liquid
 Acute Tox: Acute toxicity
 Asp. Tox: Aspiration hazard
 Skin Irrit: Skin irritation
 Eye Dam: Eye damage
 Eye Irrit: Eye irritation
 Skin Sens: Skin sensitisation
 Aquatic Acute: Acute aquatic hazard
 Aquatic Chronic: Chronic aquatic hazard
 ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
 AGW: Arbeitsplatzgrenzwert
 CAS: Chemical Abstracts Service
 CLP: Classification, Labelling and Packaging of substances and mixtures
 DNEL: Derived No Effect Level
 d: day(s)
 EINECS: European INventory of Existing Commercial chemical Substances
 ELINCS: European List of Notified Chemical Substances
 ECHA: European Chemicals Agency
 EWC: European Waste Catalogue
 IARC: INTERNATIONAL AGENCY FOR RESEARCH ON CANCER
 IMDG: International Maritime Code for Dangerous Goods
 IATA: International Air Transport Association
 IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
 ICAO: International Civil Aviation Organization
 ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)
 GHS: Globally Harmonized System of Classification and Labelling of Chemicals
 GefStoffV: Gefahrstoffverordnung (Ordinance on Hazardous Substances, Germany)
 h: hour
 LOAEL: Lowest observed adverse effect level
 LOAEC: Lowest observed adverse effect concentration
 LC50: Lethal concentration, 50 percent
 LD50: Lethal dose, 50 percent
 NOAEL: No observed adverse effect level
 NOAEC: No observed adverse effect concentration
 NLP: No-Longer Polymers
 N/A: not applicable
 OECD: Organisation for Economic Co-operation and Development
 PNEC: predicted no effect concentration
 PBT: Persistent bioaccumulative toxic
 RID: Reglement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
 REACH: Registration, Evaluation, Authorisation of Chemicals
 SVHC: substance of very high concern
 TRGS: Technische Regeln für Gefahrstoffe
 UN: United Nations
 VOC: Volatile Organic Compounds
 WGK: Water Hazard Class (Germany)

Classification for mixtures and used evaluation method according to Regulation (EC) No 1272/2008 [CLP]

| Classification | Classification procedure |
|-------------------------|--------------------------|
| Skin Irrit. 2; H315 | Calculation method |
| Eye Dam. 1; H318 | Calculation method |
| Aquatic Chronic 3; H412 | Calculation method |

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Relevant H and EUH statements (number and full text)

| | |
|--------|---|
| H226 | Flammable liquid and vapour. |
| H302 | Harmful if swallowed. |
| H304 | May be fatal if swallowed and enters airways. |
| 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. |
| H411 | Toxic to aquatic life with long lasting effects. |
| H412 | Harmful to aquatic life with long lasting effects. |
| EUH208 | Contains 2,4-Dimethyl-3-cyclohexene-1-carbaldehyde, 3-(4-isobutyl-2-methylphenyl)propanal, (R)-p-mentha-1,8-diene; D-limonene, (2E)-2-(phenylmethylidene)octanal, benzyl salicylate, linalool; 3,7-dimethyl-1,6-octadien-3-ol; dl-linalool, hexyl salicylate, reaction mass of 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one and 1-(1,2,3,4,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one and 1-(1,2,3,5,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one, [1a(E),2β]-1-(2,6,6-trimethylcyclohex-3-en-1-yl)but-2-en-1-one. May produce an allergic reaction. |

Further Information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

(The data for the relevant ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)