



# Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

## Armor All FRESHfx Car Air Freshener Island Oasis Vent Clip

Version number: GHS 8.0  
Replaces version of: 2023-08-24 (GHS 7)

Revision: 2024-05-17

### SECTION 1: Identification

#### 1.1 Product identifier

Trade name **Armor All FRESHfx Car Air Freshener Island Oasis Vent Clip**  
Alternative number(s) 070612185518, 070612191038

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

Relevant identified uses General use

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

Energizer Manufacturing, Inc.  
25225 Detroit Rd.  
Westlake OH 44145  
United States

Telephone: 800-383-7323; 314-985-2000 (USA / CANADA)  
e-mail: Autocare.regulatory@energizer.com  
Website: <http://data.energizer.com>

#### 1.4 Emergency telephone number

Emergency information service  
FOR EMERGENCY in USA & Canada CALL +1 800 255-3924 / For International CALL +1 813 248 0585  
This number is only available during the following office hours: Mon-Fri 09:00 AM - 05:00 PM

### SECTION 2: Hazard(s) identification

#### 2.1 Classification of the substance or mixture

Classification acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

Section	Hazard class	Category	Hazard class and category	Hazard statement
A.2	skin corrosion/irritation	2	Skin Irrit. 2	H315
A.3	serious eye damage/eye irritation	2	Eye Irrit. 2	H319
A.4S	skin sensitization	1	Skin Sens. 1	H317
A.7	reproductive toxicity	1B	Repr. 1B	H360
B.6	flammable liquid	4	Flam. Liq. 4	H227

For full text of abbreviations: see SECTION 16.

The most important adverse physicochemical, human health and environmental effects

The product is combustible and can be ignited by potential ignition sources.

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**2.2 Label elements**

Labelling acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

- Signal word                    danger

- Pictograms

GHS07, GHS08



- Hazard statements

- H227                                Combustible liquid.
- H315                                Causes skin irritation.
- H317                                May cause an allergic skin reaction.
- H319                                Causes serious eye irritation.
- H360                                May damage fertility or the unborn child.

- Precautionary statements

- P101                                If medical advice is needed, have product container or label at hand.
- P102                                Keep out of reach of children.
- P202                                Do not handle until all safety precautions have been read and understood.
- P210                                Keep away from heat/sparks/open flames/hot surfaces. No smoking.
- P261                                Avoid breathing mist/vapors.
- P272                                Contaminated work clothing must not be allowed out of the workplace.
- P280                                Wear protective gloves/eye protection/face protection.
- P302+P352                        If on skin: Wash with plenty of water.
- P305+P351+P338                If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P308+P313                        If exposed or concerned: Get medical advice/attention.
- P321                                Specific treatment (see on this label).
- P333+P313                        If skin irritation or rash occurs: Get medical advice/attention.
- P337+P313                        If eye irritation persists: Get medical advice/attention.
- P362                                Take off contaminated clothing and wash before reuse.
- P363                                Wash contaminated clothing before reuse.
- P370+P378                        In case of fire: Use sand, carbon dioxide or powder extinguisher to extinguish.
- P403+P235                        Store in a well-ventilated place. Keep cool.
- P405                                Store locked up.
- P501                                Dispose of contents/container in accordance with local/regional/national/international regulations.

- Hazardous ingredients for labelling

Hexyl cinnamaldehyde, Lilial, (R)-p-mentha-1,8-diene, Lylal, Aquanal, Cyclamal, Citronellol, Benzyl salicylate, citral, Linalool, Hexyl salicylate, delta-Damascone, Geraniol, Acetyl cedrene, allyl 3-cyclohexylpropionate, Hydroxycitronellal, Cinnamyl alcohol, Piperonal, Floralozone, Liffarome, 3,7-dimethylnona-1,6-dien-3-ol, 2,4-dimethylcyclohex-3-ene-1-carbaldehyde, Aldehyde C-16, Coumarin, 2,6,10-trimethylundec-9-enal



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### 2.3 Other hazards

Hazards not otherwise classified

- May be harmful if swallowed (GHS category 5: acutely toxic - oral).
- May be harmful in contact with skin (GHS category 5: acutely toxic - dermal).
- Very toxic to aquatic life with long lasting effects (GHS category 1: aquatic toxicity - acute and/or chronic).
- Toxic to aquatic life with long lasting effects (GHS category 2: aquatic toxicity - acute and/or chronic).

Results of PBT and vPvB assessment

Does not contain a PBT-/vPvB-substance at a concentration of  $\geq 0.1\%$ .

Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) in a concentration of  $\geq 0.1\%$ .

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

Not relevant (mixture)

### 3.2 Mixtures















Description of the mixture

Name of substance	Identifier	Wt%	Classification acc. to GHS	Pictograms
Hexyl cinnamaldehyde	CAS No 101-86-0 165184-98-5	5 - < 10	Acute Tox. 4 / H332 Skin Sens. 1 / H317	
Cyclamal	CAS No 103-95-7	1 - < 5	Skin Irrit. 2 / H315 Skin Sens. 1B / H317 Flam. Liq. 4 / H227	
Lilial	CAS No 80-54-6	1 - < 5	Acute Tox. 4 / H302 Skin Irrit. 2 / H315 Skin Sens. 1B / H317 Repr. 1B / H360 Flam. Liq. 4 / H227	 
Linalool	CAS No 78-70-6	1 - < 5	Skin Irrit. 2 / H315 Eye Irrit. 2 / H319 Skin Sens. 1B / H317 Flam. Liq. 4 / H227	
Dihydromyrcenol	CAS No 18479-58-8	1 - < 5	Skin Irrit. 2 / H315 Eye Irrit. 2 / H319 STOT SE 3 / H336 Flam. Liq. 4 / H227	
DMBC Acetate	CAS No 151-05-3	1 - < 5	Skin Irrit. 2 / H315	
Menthyl acetate	CAS No 89-48-5	1 - < 5	Flam. Liq. 4 / H227	

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Name of substance	Identifier	Wt%	Classification acc. to GHS	Pictograms
(R)-p-mentha-1,8-diene	CAS No 5989-27-5	1 - < 5	Skin Irrit. 2 / H315 Skin Sens. 1 / H317 Asp. Tox. 1 / H304 Flam. Liq. 3 / H226	
Benzyl salicylate	CAS No 118-58-1	1 - < 5	Eye Irrit. 2 / H319 Skin Sens. 1B / H317	
(2E)-2-ethyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-buten-1-ol	CAS No 106185-75-5 28219-61-6	1 - < 5	Eye Irrit. 2 / H319	
α,α-dimethylphenethyl butyrate	CAS No 10094-34-5	1 - < 5	Skin Irrit. 2 / H315	
Allyl heptanoate	CAS No 142-19-8	1 - < 5	Acute Tox. 3 / H301 Acute Tox. 3 / H311 Flam. Liq. 4 / H227	
Citronellol	CAS No 106-22-9	1 - < 5	Skin Irrit. 2 / H315 Eye Irrit. 2 / H319 Skin Sens. 1B / H317	
Lylal	CAS No 31906-04-4	1 - < 5	Skin Sens. 1A / H317	
Aquanal	CAS No 1205-17-0	1 - < 5	Skin Sens. 1B / H317 Repr. 2 / H361	
Allyl Caproate	CAS No 123-68-2	1 - < 5	Acute Tox. 3 / H301 Acute Tox. 3 / H311 Acute Tox. 3 / H331 Flam. Liq. 4 / H227	
Aldehyde C-16	CAS No 77-83-8	1 - < 5	Skin Sens. 1B / H317	
2,6,10-trimethylundec-9-enal	CAS No 141-13-9	1 - < 5	Skin Sens. 1B / H317	
Liffarome	CAS No 67633-96-9	1 - < 5	Skin Irrit. 2 / H315 Skin Sens. 1B / H317 Flam. Liq. 4 / H227	
3,7-dimethylnona-1,6-dien-3-ol	CAS No 10339-55-6	1 - < 5	Skin Irrit. 2 / H315 Eye Irrit. 2 / H319 Skin Sens. 1B / H317 Flam. Liq. 4 / H227	
2,4-dimethylcyclohex-3-ene-1-carbaldehyde	CAS No 68039-49-6	1 - < 5	Skin Irrit. 2 / H315 Skin Sens. 1 / H317 Flam. Liq. 4 / H227	



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Undecavertol	CAS No 81782-77-6	1 - <5	Flam. Liq. 4 / H227	
Floralozone	CAS No 67634-15-5	1 - <5	Skin Irrit. 2 / H315 Skin Sens. 1B / H317	
allyl 3-cyclohexylpropionate	CAS No 2705-87-5	< 1	Acute Tox. 4 / H302 Acute Tox. 4 / H312 Skin Sens. 1B / H317	
Geraniol	CAS No 106-24-1	< 1	Skin Irrit. 2 / H315 Eye Dam. 1 / H318 Skin Sens. 1 / H317	
delta-Damascone	CAS No 57378-68-4	< 1	Acute Tox. 4 / H302 Skin Irrit. 2 / H315 Skin Sens. 1 / H317	
Hexyl salicylate	CAS No 6259-76-3	< 1	Skin Sens. 1B / H317	
Coumarin	CAS No 91-64-5	< 1	Acute Tox. 3 / H301 Acute Tox. 3 / H311 Skin Sens. 1 / H317	
citral	CAS No 5392-40-5	< 1	Skin Irrit. 2 / H315 Eye Irrit. 2 / H319 Skin Sens. 1 / H317	
Piperonal	CAS No 120-57-0	< 1	Skin Sens. 1B / H317	
Hydroxycitronellal	CAS No 107-75-5	< 1	Eye Irrit. 2 / H319 Skin Sens. 1B / H317	
Acetyl cedrene	CAS No 32388-55-9	< 1	Skin Sens. 1B / H317	
Cinnamyl alcohol	CAS No 104-54-1	< 1	Acute Tox. 4 / H302 Skin Sens. 1 / H317	

### Remarks

For full text of abbreviations: see SECTION 16



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### SECTION 4: First-aid measures

#### 4.1 Description of first-aid measures

##### General notes

Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm, still and covered. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness place person in the recovery position. Never give anything by mouth.

##### Following inhalation

If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. In case of respiratory tract irritation, consult a physician. Provide fresh air.

##### Following skin contact

Wash with plenty of soap and water.

##### Following eye contact

Remove contact lenses, if present and easy to do. Continue rinsing. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.

##### Following ingestion

Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting.

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

Symptoms and effects are not known to date.

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

none

### SECTION 5: Fire-fighting measures

#### 5.1 Extinguishing media

##### Suitable extinguishing media

Water spray, BC-powder, Carbon dioxide (CO<sub>2</sub>)

##### Unsuitable extinguishing media

Water jet

#### 5.2 Special hazards arising from the substance or mixture

In case of insufficient ventilation and/or in use, may form flammable/explosive vapor-air mixture. Solvent vapors are heavier than air and may spread along floors. Places which are not ventilated, e.g. unventilated below ground level areas such as trenches, conduits and shafts, are particularly prone to the presence of flammable substances or mixtures.

##### Hazardous combustion products

Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>)

#### 5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Coordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.



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#### SECTION 6: Accidental release measures

##### 6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Remove persons to safety.

For emergency responders

Wear breathing apparatus if exposed to vapors/dust/aerosols/gases.

##### 6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it. If substance has entered a water course or sewer, inform the responsible authority.

##### 6.3 Methods and material for containment and cleaning up

Advice on how to contain a spill

Covering of drains

Advice on how to clean up a spill

Wipe up with absorbent material (e.g. cloth, fleece). Collect spillage: sawdust, kieselgur (diatomite), sand, universal binder

Appropriate containment techniques

Use of adsorbent materials.

Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

##### 6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

#### SECTION 7: Handling and storage

##### 7.1 Precautions for safe handling

Recommendations

- Measures to prevent fire as well as aerosol and dust generation

Use local and general ventilation. Avoidance of ignition sources. Keep away from sources of ignition - No smoking. Take precautionary measures against static discharge. Use only in well-ventilated areas. Due to danger of explosion, prevent leakage of vapours into cellars, flues and ditches. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools.

- Specific notes/details

Places which are not ventilated, e.g. unventilated below ground level areas such as trenches, conduits and shafts, are particularly prone to the presence of flammable substances or mixtures. Vapors are heavier than air, spread along floors and form explosive mixtures with air. Vapors may form explosive mixtures with air.



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### Advice on general occupational hygiene

Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs.

### 7.2 Conditions for safe storage, including any incompatibilities

#### Managing of associated risks

#### - Explosive atmospheres

Keep container tightly closed and in a well-ventilated place. Use local and general ventilation. Keep cool. Protect from sunlight.

#### - Flammability hazards

Keep away from sources of ignition - No smoking. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Take precautionary measures against static discharge. Protect from sunlight.

#### - Ventilation requirements

Use local and general ventilation. Ground/bond container and receiving equipment.

#### - Packaging compatibilities

Only packagings which are approved (e.g. acc. to the Dangerous Goods Regulations) may be used.

### 7.3 Specific end use(s)

See section 16 for a general overview.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational exposure limit values (Workplace Exposure Limits)

Country	Name of agent	CAS No	Identifier	TWA [ppm]	TWA [mg/m <sup>3</sup> ]	STEL [ppm]	STEL [mg/m <sup>3</sup> ]	Ceiling-C [ppm]	Ceiling-C [mg/m <sup>3</sup> ]	Notation	Source
US	citral	5392-40-5	TLV®	5						iv, H	AC-GIH® 2024

#### Notation

Ceiling-C

ceiling value is a limit value above which exposure should not occur

H absorbed through the skin

iv inhalable fraction and vapor

STEL short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period

(unless otherwise specified)

TWA time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-weighted average (unless otherwise specified)



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### Relevant DNELs of components

Name of substance	CAS No	End-point	Threshold level	Protection goal, route of exposure	Used in	Exposure time
Hexyl cinnamaldehyde	101-86-0 165184-98-5	DNEL	0.078 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic effects
Hexyl cinnamaldehyde	101-86-0 165184-98-5	DNEL	6.28 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	acute - local effects
Hexyl cinnamaldehyde	101-86-0 165184-98-5	DNEL	18.2 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Hexyl cinnamaldehyde	101-86-0 165184-98-5	DNEL	525 µg/cm <sup>2</sup>	human, dermal	worker (industry)	chronic - local effects
Hexyl cinnamaldehyde	101-86-0 165184-98-5	DNEL	525 µg/cm <sup>2</sup>	human, dermal	worker (industry)	acute - local effects
Cyclamal	103-95-7	DNEL	7.43 µg/cm <sup>2</sup>	human, dermal	worker (industry)	chronic - local effects
Cyclamal	103-95-7	DNEL	1.23 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic effects
Cyclamal	103-95-7	DNEL	0.35 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Lilial	80-54-6	DNEL	0.44 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic effects
Lilial	80-54-6	DNEL	1.79 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Lilial	80-54-6	DNEL	410 µg/cm <sup>2</sup>	human, dermal	worker (industry)	chronic - local effects
Lilial	80-54-6	DNEL	410 µg/cm <sup>2</sup>	human, dermal	worker (industry)	acute - local effects
Linalool	78-70-6	DNEL	16.5 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	acute - systemic effects
Linalool	78-70-6	DNEL	5 mg/kg bw/day	human, dermal	worker (industry)	acute - systemic effects
Linalool	78-70-6	DNEL	24.58 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic effects
Linalool	78-70-6	DNEL	3.5 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Dihydromyrcenol	18479-58-8	DNEL	24.7 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic effects
Dihydromyrcenol	18479-58-8	DNEL	7 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects



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Relevant DNELs of components						
Name of substance	CAS No	End-point	Threshold level	Protection goal, route of exposure	Used in	Exposure time
DMBC Acetate	151-05-3	DNEL	12.7 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic effects
DMBC Acetate	151-05-3	DNEL	3.6 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Menthyl acetate	89-48-5	DNEL	33.6 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic effects
Menthyl acetate	89-48-5	DNEL	9.5 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
(R)-p-mentha-1,8-diene	5989-27-5	DNEL	66.7 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic effects
(R)-p-mentha-1,8-diene	5989-27-5	DNEL	9.5 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Benzyl salicylate	118-58-1	DNEL	7.8 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic effects
Benzyl salicylate	118-58-1	DNEL	2.21 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
α,α-dimethylphenethyl butyrate	10094-34-5	DNEL	12.7 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic effects
α,α-dimethylphenethyl butyrate	10094-34-5	DNEL	3.6 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
(2E)-2-ethyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-buten-1-ol	106185-75-5 28219-61-6	DNEL	6 mg/kg	human, dermal	worker (industry)	acute - systemic effects
(2E)-2-ethyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-buten-1-ol	106185-75-5 28219-61-6	DNEL	7 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	acute - systemic effects
(2E)-2-ethyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-buten-1-ol	106185-75-5 28219-61-6	DNEL	21 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic effects
(2E)-2-ethyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-buten-1-ol	106185-75-5 28219-61-6	DNEL	6 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Allyl heptanoate	142-19-8	DNEL	2.97 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic effects



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Name of substance	CAS No	End-point	Threshold level	Protection goal, route of exposure	Used in	Exposure time
Allyl heptanoate	142-19-8	DNEL	0.84 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Citronellol	106-22-9	DNEL	161.6 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic effects
Citronellol	106-22-9	DNEL	10 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - local effects
Citronellol	106-22-9	DNEL	10 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	acute - local effects
Citronellol	106-22-9	DNEL	327.4 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Citronellol	106-22-9	DNEL	2,950 µg/cm <sup>2</sup>	human, dermal	worker (industry)	acute - local effects
Aquanal	1205-17-0	DNEL	1.2 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic effects
Aquanal	1205-17-0	DNEL	0.17 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Floralozone	67634-15-5	DNEL	14.7 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic effects
Floralozone	67634-15-5	DNEL	4.2 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Floralozone	67634-15-5	DNEL	5,295 µg/cm <sup>2</sup>	human, dermal	worker (industry)	chronic - local effects
3,7-dimethylnona-1,6-dien-3-ol	10339-55-6	DNEL	3 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic effects
3,7-dimethylnona-1,6-dien-3-ol	10339-55-6	DNEL	18 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	acute - systemic effects
3,7-dimethylnona-1,6-dien-3-ol	10339-55-6	DNEL	2.7 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
3,7-dimethylnona-1,6-dien-3-ol	10339-55-6	DNEL	5.5 mg/kg bw/day	human, dermal	worker (industry)	acute - systemic effects
Allyl Caproate	123-68-2	DNEL	15 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic effects
Allyl Caproate	123-68-2	DNEL	4.3 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Aldehyde C-16	77-83-8	DNEL	17.63 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic effects



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### Relevant DNELs of components

Name of substance	CAS No	End-point	Threshold level	Protection goal, route of exposure	Used in	Exposure time
Aldehyde C-16	77-83-8	DNEL	35.26 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	acute - systemic effects
Aldehyde C-16	77-83-8	DNEL	44.08 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - local effects
Aldehyde C-16	77-83-8	DNEL	88.16 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	acute - local effects
Aldehyde C-16	77-83-8	DNEL	5 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Aldehyde C-16	77-83-8	DNEL	10 mg/kg bw/day	human, dermal	worker (industry)	acute - systemic effects
Undecavertol	81782-77-6	DNEL	98.7 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic effects
Undecavertol	81782-77-6	DNEL	35.26 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	acute - systemic effects
Undecavertol	81782-77-6	DNEL	88.16 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - local effects
Undecavertol	81782-77-6	DNEL	88.16 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	acute - local effects
Undecavertol	81782-77-6	DNEL	10 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Undecavertol	81782-77-6	DNEL	10 mg/kg bw/day	human, dermal	worker (industry)	acute - systemic effects
2,6,10-trimethylundec-9-enal	141-13-9	DNEL	23.63 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic effects
2,6,10-trimethylundec-9-enal	141-13-9	DNEL	23.63 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	acute - systemic effects
2,6,10-trimethylundec-9-enal	141-13-9	DNEL	59.07 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - local effects
2,6,10-trimethylundec-9-enal	141-13-9	DNEL	59.07 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	acute - local effects
2,6,10-trimethylundec-9-enal	141-13-9	DNEL	6.7 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
2,6,10-trimethylundec-9-enal	141-13-9	DNEL	160 mg/kg bw/day	human, dermal	worker (industry)	acute - systemic effects
2,6,10-trimethylundec-9-enal	141-13-9	DNEL	133 µg/cm <sup>2</sup>	human, dermal	worker (industry)	chronic - local effects



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### Relevant DNELs of components

Name of substance	CAS No	End-point	Threshold level	Protection goal, route of exposure	Used in	Exposure time
2,6,10-trimethylundec-9-enal	141-13-9	DNEL	133.3 µg/cm <sup>2</sup>	human, dermal	worker (industry)	acute - local effects
Geraniol	106-24-1	DNEL	11.8 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic effects
Geraniol	106-24-1	DNEL	4.2 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Geraniol	106-24-1	DNEL	11,800 µg/cm <sup>2</sup>	human, dermal	worker (industry)	chronic - local effects
allyl 3-cyclohexylpropionate	2705-87-5	DNEL	21.13 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic effects
allyl 3-cyclohexylpropionate	2705-87-5	DNEL	5.99 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
allyl 3-cyclohexylpropionate	2705-87-5	DNEL	17.97 mg/kg bw/day	human, dermal	worker (industry)	acute - systemic effects
Hexyl salicylate	6259-76-3	DNEL	20,830 mg/kg	human, dermal	worker (industry)	acute - systemic effects
Hexyl salicylate	6259-76-3	DNEL	7.29 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	acute - systemic effects
Hexyl salicylate	6259-76-3	DNEL	1.7 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic effects
Hexyl salicylate	6259-76-3	DNEL	6.4 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Hexyl salicylate	6259-76-3	DNEL	885 µg/cm <sup>2</sup>	human, dermal	worker (industry)	chronic - local effects
Hexyl salicylate	6259-76-3	DNEL	885 µg/cm <sup>2</sup>	human, dermal	worker (industry)	acute - local effects
Coumarin	91-64-5	DNEL	6.78 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic effects
Coumarin	91-64-5	DNEL	0.79 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
citral	5392-40-5	DNEL	9 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic effects
citral	5392-40-5	DNEL	1.7 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
citral	5392-40-5	DNEL	140 µg/cm <sup>2</sup>	human, dermal	worker (industry)	chronic - local effects



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### Relevant DNELs of components

Name of substance	CAS No	End-point	Threshold level	Protection goal, route of exposure	Used in	Exposure time
Acetyl cedrene	32388-55-9	DNEL	1.17 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic effects
Acetyl cedrene	32388-55-9	DNEL	0.333 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Hydroxycitronellal	107-75-5	DNEL	500 µg/cm <sup>2</sup>	human, dermal	worker (industry)	acute - local effects
Hydroxycitronellal	107-75-5	DNEL	8.7 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic effects
Hydroxycitronellal	107-75-5	DNEL	4.9 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Hydroxycitronellal	107-75-5	DNEL	500 µg/cm <sup>2</sup>	human, dermal	worker (industry)	chronic - local effects
Piperonal	120-57-0	DNEL	5.29 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic effects
Piperonal	120-57-0	DNEL	0.75 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Cinnamyl alcohol	104-54-1	DNEL	2.64 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic effects
Cinnamyl alcohol	104-54-1	DNEL	0.749 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects

### Relevant PNECs of components

Name of substance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
Hexyl cinnamaldehyde	101-86-0 165184-98-5	PNEC	0.001 mg/l	aquatic organisms	freshwater	short-term (single instance)
Hexyl cinnamaldehyde	101-86-0 165184-98-5	PNEC	0 mg/l	aquatic organisms	marine water	short-term (single instance)
Hexyl cinnamaldehyde	101-86-0 165184-98-5	PNEC	10 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Hexyl cinnamaldehyde	101-86-0 165184-98-5	PNEC	3.2 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Hexyl cinnamaldehyde	101-86-0 165184-98-5	PNEC	0.064 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
Hexyl cinnamaldehyde	101-86-0 165184-98-5	PNEC	0.398 mg/kg	terrestrial organisms	soil	short-term (single instance)



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### Relevant PNECs of components

Name of substance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
Cyclamal	103-95-7	PNEC	33.3 mg/kg	aquatic organisms	water	short-term (single instance)
Cyclamal	103-95-7	PNEC	10.92 µg/l	aquatic organisms	water	intermittent release
Cyclamal	103-95-7	PNEC	8.8 µg/l	aquatic organisms	freshwater	short-term (single instance)
Cyclamal	103-95-7	PNEC	0.88 µg/l	aquatic organisms	marine water	short-term (single instance)
Cyclamal	103-95-7	PNEC	1 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Cyclamal	103-95-7	PNEC	1.02 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Cyclamal	103-95-7	PNEC	0.102 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
Cyclamal	103-95-7	PNEC	0.199 mg/kg	terrestrial organisms	soil	short-term (single instance)
Lilial	80-54-6	PNEC	0.024 mg/l	aquatic organisms	water	intermittent release
Lilial	80-54-6	PNEC	0.004 mg/l	aquatic organisms	freshwater	short-term (single instance)
Lilial	80-54-6	PNEC	0 mg/l	aquatic organisms	marine water	short-term (single instance)
Lilial	80-54-6	PNEC	10 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Lilial	80-54-6	PNEC	0.528 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Lilial	80-54-6	PNEC	0.053 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
Lilial	80-54-6	PNEC	0.103 mg/kg	terrestrial organisms	soil	short-term (single instance)
Linalool	78-70-6	PNEC	7.8 mg/kg	aquatic organisms	water	short-term (single instance)
Linalool	78-70-6	PNEC	2 mg/l	aquatic organisms	water	intermittent release
Linalool	78-70-6	PNEC	0.2 mg/l	aquatic organisms	freshwater	short-term (single instance)



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### Relevant PNECs of components

Name of substance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
Linalool	78-70-6	PNEC	0.02 mg/l	aquatic organisms	marine water	short-term (single instance)
Linalool	78-70-6	PNEC	10 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Linalool	78-70-6	PNEC	2.22 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Linalool	78-70-6	PNEC	0.222 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
Linalool	78-70-6	PNEC	0.327 mg/kg	terrestrial organisms	soil	short-term (single instance)
Dihydromyrcenol	18479-58-8	PNEC	111 mg/kg	aquatic organisms	water	short-term (single instance)
Dihydromyrcenol	18479-58-8	PNEC	0.278 mg/l	aquatic organisms	water	intermittent release
Dihydromyrcenol	18479-58-8	PNEC	27.8 µg/l	aquatic organisms	freshwater	short-term (single instance)
Dihydromyrcenol	18479-58-8	PNEC	2.78 µg/l	aquatic organisms	marine water	short-term (single instance)
Dihydromyrcenol	18479-58-8	PNEC	10 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Dihydromyrcenol	18479-58-8	PNEC	0.594 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Dihydromyrcenol	18479-58-8	PNEC	0.059 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
Dihydromyrcenol	18479-58-8	PNEC	0.103 mg/kg	terrestrial organisms	soil	short-term (single instance)
DMBC Acetate	151-05-3	PNEC	4.766 µg/l	aquatic organisms	freshwater	short-term (single instance)
DMBC Acetate	151-05-3	PNEC	31.25 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
DMBC Acetate	151-05-3	PNEC	0.189 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
DMBC Acetate	151-05-3	PNEC	0.103 mg/kg	terrestrial organisms	soil	short-term (single instance)
Menthyl acetate	89-48-5	PNEC	2.7 µg/l	aquatic organisms	freshwater	short-term (single instance)



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### Relevant PNECs of components

Name of substance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
Menthyl acetate	89-48-5	PNEC	0.27 µg/l	aquatic organisms	marine water	short-term (single instance)
Menthyl acetate	89-48-5	PNEC	0.26 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Menthyl acetate	89-48-5	PNEC	0.434 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Menthyl acetate	89-48-5	PNEC	0.043 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
Menthyl acetate	89-48-5	PNEC	0.085 mg/kg	terrestrial organisms	soil	short-term (single instance)
(R)-p-mentha-1,8-diene	5989-27-5	PNEC	14 µg/l	aquatic organisms	freshwater	short-term (single instance)
(R)-p-mentha-1,8-diene	5989-27-5	PNEC	1.4 µg/l	aquatic organisms	marine water	short-term (single instance)
(R)-p-mentha-1,8-diene	5989-27-5	PNEC	1.8 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
(R)-p-mentha-1,8-diene	5989-27-5	PNEC	3.85 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
(R)-p-mentha-1,8-diene	5989-27-5	PNEC	0.385 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
(R)-p-mentha-1,8-diene	5989-27-5	PNEC	0.763 mg/kg	terrestrial organisms	soil	short-term (single instance)
Benzyl salicylate	118-58-1	PNEC	0.0103 mg/l	aquatic organisms	water	intermittent release
Benzyl salicylate	118-58-1	PNEC	80 mg/kg	aquatic organisms	water	short-term (single instance)
Benzyl salicylate	118-58-1	PNEC	0.001 mg/l	aquatic organisms	freshwater	short-term (single instance)
Benzyl salicylate	118-58-1	PNEC	0 mg/l	aquatic organisms	marine water	short-term (single instance)
Benzyl salicylate	118-58-1	PNEC	10 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Benzyl salicylate	118-58-1	PNEC	0.583 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Benzyl salicylate	118-58-1	PNEC	0.058 mg/kg	aquatic organisms	marine sediment	short-term (single instance)



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### Relevant PNECs of components

Name of substance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
Benzyl salicylate	118-58-1	PNEC	1.41 mg/kg	terrestrial organisms	soil	short-term (single instance)
$\alpha,\alpha$ -dimethylphenethyl butyrate	10094-34-5	PNEC	4.766 $\mu\text{g/l}$	aquatic organisms	freshwater	short-term (single instance)
$\alpha,\alpha$ -dimethylphenethyl butyrate	10094-34-5	PNEC	31.25 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
$\alpha,\alpha$ -dimethylphenethyl butyrate	10094-34-5	PNEC	0.189 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
$\alpha,\alpha$ -dimethylphenethyl butyrate	10094-34-5	PNEC	0.103 mg/kg	terrestrial organisms	soil	short-term (single instance)
(2E)-2-ethyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-buten-1-ol	106185-75-5 28219-61-6	PNEC	1 mg/kg	aquatic organisms	water	short-term (single instance)
(2E)-2-ethyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-buten-1-ol	106185-75-5 28219-61-6	PNEC	8.8 $\mu\text{g/l}$	aquatic organisms	freshwater	short-term (single instance)
(2E)-2-ethyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-buten-1-ol	106185-75-5 28219-61-6	PNEC	0.88 $\mu\text{g/l}$	aquatic organisms	marine water	short-term (single instance)
(2E)-2-ethyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-buten-1-ol	106185-75-5 28219-61-6	PNEC	1 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
(2E)-2-ethyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-buten-1-ol	106185-75-5 28219-61-6	PNEC	1.05 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
(2E)-2-ethyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-buten-1-ol	106185-75-5 28219-61-6	PNEC	0.105 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
(2E)-2-ethyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-buten-1-ol	106185-75-5 28219-61-6	PNEC	0.206 mg/kg	terrestrial organisms	soil	short-term (single instance)
Allyl heptanoate	142-19-8	PNEC	51.78 mg/kg	aquatic organisms	water	short-term (single instance)



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### Relevant PNECs of components

Name of substance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
Allyl heptanoate	142-19-8	PNEC	1.2 µg/l	aquatic organisms	water	intermittent release
Allyl heptanoate	142-19-8	PNEC	0.12 µg/l	aquatic organisms	freshwater	short-term (single instance)
Allyl heptanoate	142-19-8	PNEC	0.012 µg/l	aquatic organisms	marine water	short-term (single instance)
Allyl heptanoate	142-19-8	PNEC	10 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Allyl heptanoate	142-19-8	PNEC	0.012 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Allyl heptanoate	142-19-8	PNEC	0.001 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
Allyl heptanoate	142-19-8	PNEC	0.002 mg/kg	terrestrial organisms	soil	short-term (single instance)
Citronellol	106-22-9	PNEC	0.024 mg/l	aquatic organisms	water	intermittent release
Citronellol	106-22-9	PNEC	0.002 mg/l	aquatic organisms	freshwater	short-term (single instance)
Citronellol	106-22-9	PNEC	0 mg/l	aquatic organisms	marine water	short-term (single instance)
Citronellol	106-22-9	PNEC	580 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Citronellol	106-22-9	PNEC	0.026 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Citronellol	106-22-9	PNEC	0.003 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
Citronellol	106-22-9	PNEC	0.004 mg/kg	terrestrial organisms	soil	short-term (single instance)
Aquanal	1205-17-0	PNEC	0.005 mg/l	aquatic organisms	freshwater	short-term (single instance)
Aquanal	1205-17-0	PNEC	0.001 mg/l	aquatic organisms	marine water	short-term (single instance)
Aquanal	1205-17-0	PNEC	10 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Aquanal	1205-17-0	PNEC	0.057 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)



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### Relevant PNECs of components

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Aquanal	1205-17-0	PNEC	0.006 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
Aquanal	1205-17-0	PNEC	0.008 mg/kg	terrestrial organisms	soil	short-term (single instance)
Floralozone	67634-15-5	PNEC	0.006 mg/l	aquatic organisms	freshwater	short-term (single instance)
Floralozone	67634-15-5	PNEC	0.001 mg/l	aquatic organisms	marine water	short-term (single instance)
Floralozone	67634-15-5	PNEC	1 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Floralozone	67634-15-5	PNEC	0.635 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Floralozone	67634-15-5	PNEC	0.064 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
Floralozone	67634-15-5	PNEC	0.124 mg/kg	terrestrial organisms	soil	short-term (single instance)
3,7-dimethylnona-1,6-dien-3-ol	10339-55-6	PNEC	8.53 mg/kg	aquatic organisms	water	short-term (single instance)
3,7-dimethylnona-1,6-dien-3-ol	10339-55-6	PNEC	0.23 mg/l	aquatic organisms	water	intermittent release
3,7-dimethylnona-1,6-dien-3-ol	10339-55-6	PNEC	0.023 mg/l	aquatic organisms	freshwater	short-term (single instance)
3,7-dimethylnona-1,6-dien-3-ol	10339-55-6	PNEC	0.002 mg/l	aquatic organisms	marine water	short-term (single instance)
3,7-dimethylnona-1,6-dien-3-ol	10339-55-6	PNEC	10 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
3,7-dimethylnona-1,6-dien-3-ol	10339-55-6	PNEC	0.223 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
3,7-dimethylnona-1,6-dien-3-ol	10339-55-6	PNEC	0.022 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
3,7-dimethylnona-1,6-dien-3-ol	10339-55-6	PNEC	0.031 mg/kg	terrestrial organisms	soil	short-term (single instance)
Allyl Caproate	123-68-2	PNEC	47.56 mg/kg	aquatic organisms	water	short-term (single instance)
Allyl Caproate	123-68-2	PNEC	1.17 µg/l	aquatic organisms	water	intermittent release



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Relevant PNECs of components						
Name of substance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
Allyl Caproate	123-68-2	PNEC	0.117 µg/l	aquatic organisms	freshwater	short-term (single instance)
Allyl Caproate	123-68-2	PNEC	0.012 µg/l	aquatic organisms	marine water	short-term (single instance)
Allyl Caproate	123-68-2	PNEC	10 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Allyl Caproate	123-68-2	PNEC	4.46 µg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Allyl Caproate	123-68-2	PNEC	0.446 µg/kg	aquatic organisms	marine sediment	short-term (single instance)
Allyl Caproate	123-68-2	PNEC	0.825 µg/kg	terrestrial organisms	soil	short-term (single instance)
Aldehyde C-16	77-83-8	PNEC	23.3 mg/kg	aquatic organisms	water	short-term (single instance)
Aldehyde C-16	77-83-8	PNEC	0.084 mg/l	aquatic organisms	water	intermittent release
Aldehyde C-16	77-83-8	PNEC	0.008 mg/l	aquatic organisms	freshwater	short-term (single instance)
Aldehyde C-16	77-83-8	PNEC	8.4 µg/l	aquatic organisms	marine water	short-term (single instance)
Aldehyde C-16	77-83-8	PNEC	10 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Aldehyde C-16	77-83-8	PNEC	0.214 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Aldehyde C-16	77-83-8	PNEC	0.021 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
Aldehyde C-16	77-83-8	PNEC	0.038 mg/kg	terrestrial organisms	soil	short-term (single instance)
Undecavertol	81782-77-6	PNEC	0.04 µg/l	aquatic organisms	marine water	short-term (single instance)
Undecavertol	81782-77-6	PNEC	111.1 mg/kg	aquatic organisms	water	short-term (single instance)
Undecavertol	81782-77-6	PNEC	0.004 mg/l	aquatic organisms	water	intermittent release
Undecavertol	81782-77-6	PNEC	0.76 µg/l	aquatic organisms	freshwater	short-term (single instance)



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Relevant PNECs of components						
Name of substance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
Undecavertol	81782-77-6	PNEC	10 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Undecavertol	81782-77-6	PNEC	92 µg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Undecavertol	81782-77-6	PNEC	9.2 µg/kg	aquatic organisms	marine sediment	short-term (single instance)
Undecavertol	81782-77-6	PNEC	18 µg/kg	terrestrial organisms	soil	short-term (single instance)
2,6,10-trimethylundec-9-enal	141-13-9	PNEC	0.588 µg/l	aquatic organisms	freshwater	short-term (single instance)
2,6,10-trimethylundec-9-enal	141-13-9	PNEC	0.059 µg/l	aquatic organisms	marine water	short-term (single instance)
2,6,10-trimethylundec-9-enal	141-13-9	PNEC	10 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
2,6,10-trimethylundec-9-enal	141-13-9	PNEC	0.427 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
2,6,10-trimethylundec-9-enal	141-13-9	PNEC	0.043 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
2,6,10-trimethylundec-9-enal	141-13-9	PNEC	0.093 mg/kg	terrestrial organisms	soil	short-term (single instance)
Geraniol	106-24-1	PNEC	0.108 mg/l	aquatic organisms	water	intermittent release
Geraniol	106-24-1	PNEC	0.011 mg/l	aquatic organisms	freshwater	short-term (single instance)
Geraniol	106-24-1	PNEC	0.001 mg/l	aquatic organisms	marine water	short-term (single instance)
Geraniol	106-24-1	PNEC	0.7 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Geraniol	106-24-1	PNEC	0.115 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Geraniol	106-24-1	PNEC	0.011 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
Geraniol	106-24-1	PNEC	0.017 mg/kg	terrestrial organisms	soil	short-term (single instance)
allyl 3-cyclohexylpropionate	2705-87-5	PNEC	143 mg/kg	aquatic organisms	water	short-term (single instance)



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### Relevant PNECs of components

Name of substance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
allyl 3-cyclohexylpropionate	2705-87-5	PNEC	1.3 µg/l	aquatic organisms	water	intermittent release
allyl 3-cyclohexylpropionate	2705-87-5	PNEC	1.28 µg/l	aquatic organisms	freshwater	short-term (single instance)
allyl 3-cyclohexylpropionate	2705-87-5	PNEC	0.128 µg/l	aquatic organisms	marine water	short-term (single instance)
allyl 3-cyclohexylpropionate	2705-87-5	PNEC	0.2 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
allyl 3-cyclohexylpropionate	2705-87-5	PNEC	237.5 µg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
allyl 3-cyclohexylpropionate	2705-87-5	PNEC	23.75 µg/kg	aquatic organisms	marine sediment	short-term (single instance)
allyl 3-cyclohexylpropionate	2705-87-5	PNEC	46.61 µg/kg	terrestrial organisms	soil	short-term (single instance)
Hexyl salicylate	6259-76-3	PNEC	0.00357 mg/l	aquatic organisms	water	intermittent release
Hexyl salicylate	6259-76-3	PNEC	0 mg/l	aquatic organisms	freshwater	short-term (single instance)
Hexyl salicylate	6259-76-3	PNEC	0 mg/l	aquatic organisms	marine water	short-term (single instance)
Hexyl salicylate	6259-76-3	PNEC	10 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Hexyl salicylate	6259-76-3	PNEC	0.272 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Hexyl salicylate	6259-76-3	PNEC	0.027 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
Hexyl salicylate	6259-76-3	PNEC	0.054 mg/kg	terrestrial organisms	soil	short-term (single instance)
Coumarin	91-64-5	PNEC	0.056 mg/l	aquatic organisms	water	intermittent release
Coumarin	91-64-5	PNEC	19 µg/l	aquatic organisms	freshwater	short-term (single instance)
Coumarin	91-64-5	PNEC	1.9 µg/l	aquatic organisms	marine water	short-term (single instance)
Coumarin	91-64-5	PNEC	6.4 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)



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### Relevant PNECs of components

Name of substance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
Coumarin	91-64-5	PNEC	0.15 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Coumarin	91-64-5	PNEC	0.015 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
Coumarin	91-64-5	PNEC	0.018 mg/kg	terrestrial organisms	soil	short-term (single instance)
citral	5392-40-5	PNEC	0.007 mg/l	aquatic organisms	freshwater	short-term (single instance)
citral	5392-40-5	PNEC	0.001 mg/l	aquatic organisms	marine water	short-term (single instance)
citral	5392-40-5	PNEC	1.6 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
citral	5392-40-5	PNEC	0.125 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
citral	5392-40-5	PNEC	0.013 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
citral	5392-40-5	PNEC	0.021 mg/kg	terrestrial organisms	soil	short-term (single instance)
Acetyl cedrene	32388-55-9	PNEC	1.74 µg/l	aquatic organisms	freshwater	short-term (single instance)
Acetyl cedrene	32388-55-9	PNEC	0.174 µg/l	aquatic organisms	marine water	short-term (single instance)
Acetyl cedrene	32388-55-9	PNEC	10 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Acetyl cedrene	32388-55-9	PNEC	24.4 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Acetyl cedrene	32388-55-9	PNEC	2.44 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
Acetyl cedrene	32388-55-9	PNEC	4.87 mg/kg	terrestrial organisms	soil	short-term (single instance)
Hydroxycitronellal	107-75-5	PNEC	316 µg/l	aquatic organisms	water	intermittent release
Hydroxycitronellal	107-75-5	PNEC	31.6 µg/l	aquatic organisms	freshwater	short-term (single instance)
Hydroxycitronellal	107-75-5	PNEC	3.16 µg/l	aquatic organisms	marine water	short-term (single instance)



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Relevant PNECs of components						
Name of substance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
Hydroxycitronellal	107-75-5	PNEC	10 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Hydroxycitronellal	107-75-5	PNEC	0.145 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Hydroxycitronellal	107-75-5	PNEC	0.015 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
Hydroxycitronellal	107-75-5	PNEC	0.011 mg/kg	terrestrial organisms	soil	short-term (single instance)
Piperonal	120-57-0	PNEC	25 µg/l	aquatic organisms	water	intermittent release
Piperonal	120-57-0	PNEC	2.5 µg/l	aquatic organisms	freshwater	short-term (single instance)
Piperonal	120-57-0	PNEC	0.25 µg/l	aquatic organisms	marine water	short-term (single instance)
Piperonal	120-57-0	PNEC	10 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Piperonal	120-57-0	PNEC	11.95 µg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Piperonal	120-57-0	PNEC	1.2 µg/kg	aquatic organisms	marine sediment	short-term (single instance)
Piperonal	120-57-0	PNEC	0.84 µg/kg	terrestrial organisms	soil	short-term (single instance)
Cinnamyl alcohol	104-54-1	PNEC	0.035 mg/l	aquatic organisms	water	intermittent release
Cinnamyl alcohol	104-54-1	PNEC	7.7 µg/l	aquatic organisms	freshwater	short-term (single instance)
Cinnamyl alcohol	104-54-1	PNEC	0.77 µg/l	aquatic organisms	marine water	short-term (single instance)
Cinnamyl alcohol	104-54-1	PNEC	16.13 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Cinnamyl alcohol	104-54-1	PNEC	0.118 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Cinnamyl alcohol	104-54-1	PNEC	11.8 µg/kg	aquatic organisms	marine sediment	short-term (single instance)
Cinnamyl alcohol	104-54-1	PNEC	19 µg/kg	terrestrial organisms	soil	short-term (single instance)



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### 8.2 Exposure controls

Appropriate engineering controls

General ventilation.

Individual protection measures (personal protective equipment)

Eye/face protection

Wear eye/face protection.

Skin protection

- Hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. 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. 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.

- Other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling.

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

Environmental exposure controls

Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### Appearance

Physical state	liquid
Color	not determined
Particle	not relevant (liquid)
Odor	characteristic

#### Other safety parameters

pH (value)	not determined
Melting point/freezing point	not determined
Initial boiling point and boiling range	186.8 °C at 1,013 hPa



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Flash point	89 °C
Evaporation rate	Not determined
Flammability (solid, gas)	not relevant, (fluid)
Vapor pressure	8.5 kPa at 25 °C
Density	not determined
Vapor density	this information is not available
Relative density	Information on this property is not available
Solubility(ies)	not determined
Partition coefficient	
- n-octanol/water (log KOW)	this information is not available
Auto-ignition temperature	
Viscosity	not determined
Explosive properties	none
Oxidizing properties	none
<b>9.2 Other information</b>	there is no additional information

### SECTION 10: Stability and reactivity

#### 10.1 Reactivity

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials". The mixture contains reactive substance(s). Risk of ignition.

If heated:

Risk of ignition

#### 10.2 Chemical stability

See below "Conditions to avoid".

#### 10.3 Possibility of hazardous reactions

No known hazardous reactions.



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### 10.4 Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

#### Hints to prevent fire or explosion

Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Take precautionary measures against static discharge.

### 10.5 Incompatible materials

Oxidizers

### 10.6 Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

Test data are not available for the complete mixture.

#### Classification procedure

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

#### Classification acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

#### Acute toxicity

Shall not be classified as acutely toxic.

GHS of the United Nations, annex 4: May be harmful if swallowed or in contact with skin.

#### Acute toxicity estimate (ATE) of components

Name of substance	CAS No	Exposure route	ATE
Hexyl cinnamaldehyde	101-86-0 165184-98-5	inhalation: vapor	11 mg/l/4h
Hexyl cinnamaldehyde	101-86-0 165184-98-5	inhalation: dust/mist	>2.12 mg/l/4h
Lilial	80-54-6	oral	1,390 mg/kg
Allyl heptanoate	142-19-8	oral	218 mg/kg
Allyl heptanoate	142-19-8	dermal	810 mg/kg
Allyl Caproate	123-68-2	oral	100 mg/kg
Allyl Caproate	123-68-2	dermal	820 mg/kg
Allyl Caproate	123-68-2	inhalation: vapor	3 mg/l/4h
allyl 3-cyclohexylpropionate	2705-87-5	oral	500 mg/kg



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### Acute toxicity estimate (ATE) of components

Name of substance	CAS No	Exposure route	ATE
allyl 3-cyclohexylpropionate	2705-87-5	dermal	1,600 mg/kg
delta-Damascone	57378-68-4	oral	500 mg/kg
Coumarin	91-64-5	oral	293 mg/kg
Coumarin	91-64-5	dermal	293 mg/kg
Cinnamyl alcohol	104-54-1	oral	2,000 mg/kg

### Skin corrosion/irritation

Causes skin irritation.

### Serious eye damage/eye irritation

Causes serious eye irritation.

### Respiratory or skin sensitization

May cause an allergic skin reaction.

### Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

### Carcinogenicity

Shall not be classified as carcinogenic.

### IARC Monographs on the Evaluation of Carcinogenic Risks to Humans

Name of substance	CAS No	Classification	Number
Coumarin	91-64-5	3	
(R)-p-mentha-1,8-diene	5989-27-5	3	

#### Legend

3 Not classifiable as to carcinogenicity in humans

### Reproductive toxicity

May damage the unborn child. May damage fertility.

### Specific target organ toxicity - single exposure

Shall not be classified as a specific target organ toxicant (single exposure).

### Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).



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### Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

## SECTION 12: Ecological information

### 12.1 Toxicity

Very toxic to aquatic life with long lasting effects. Toxic to aquatic life with long lasting effects.

Aquatic toxicity (acute) of components of the mixture					
Name of substance	CAS No	Endpoint	Value	Species	Exposure time
Hexyl cinnamaldehyde	101-86-0 165184-98-5	LC50	1.7 mg/l	fish	96 h
Hexyl cinnamaldehyde	101-86-0 165184-98-5	EC50	<0.59 mg/l	aquatic invertebrates	48 h
Hexyl cinnamaldehyde	101-86-0 165184-98-5	ErC50	>0.065 mg/l	algae	72 h
Hexyl cinnamaldehyde	101-86-0 165184-98-5	NOEC	0.93 mg/l	fish	96 h
Cyclamal	103-95-7	LC50	1.42 mg/l	fish	96 h
Cyclamal	103-95-7	EC50	1.4 mg/l	aquatic invertebrates	48 h
Cyclamal	103-95-7	ErC50	4.3 mg/l	algae	72 h
Cyclamal	103-95-7	LOEC	2.5 mg/l	algae	72 h
Cyclamal	103-95-7	NOEC	0.72 mg/l	algae	72 h
Lilial	80-54-6	LC50	2.04 mg/l	fish	96 h
Lilial	80-54-6	EC50	10.7 mg/l	aquatic invertebrates	48 h
Lilial	80-54-6	ErC50	29.16 mg/l	algae	72 h
Lilial	80-54-6	NOEC	1.28 mg/l	fish	96 h
Linalool	78-70-6	LC50	27.8 mg/l	fish	96 h
Linalool	78-70-6	EC50	59 mg/l	aquatic invertebrates	48 h
Linalool	78-70-6	ErC50	156.7 mg/l	algae	96 h
Linalool	78-70-6	NOEC	<3.5 mg/l	fish	96 h
Dihydromyrcenol	18479-58-8	LC50	27.8 mg/l	fish	96 h
Dihydromyrcenol	18479-58-8	EC50	38 mg/l	aquatic invertebrates	48 h



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### Aquatic toxicity (acute) of components of the mixture

Name of substance	CAS No	Endpoint	Value	Species	Exposure time
Dihydromyrcenol	18479-58-8	ErC50	80 mg/l	algae	72 h
Dihydromyrcenol	18479-58-8	NOEC	<3.5 mg/l	fish	96 h
Dihydromyrcenol	18479-58-8	LOEC	50 mg/l	algae	72 h
DMBC Acetate	151-05-3	EC50	21.3 mg/l	aquatic invertebrates	24 h
Menthyl acetate	89-48-5	LC50	6.72 mg/l	fish	96 h
Menthyl acetate	89-48-5	EC50	9.1 mg/l	aquatic invertebrates	48 h
Menthyl acetate	89-48-5	ErC50	2.7 mg/l	algae	72 h
Menthyl acetate	89-48-5	NOEC	0.16 mg/l	algae	72 h
Menthyl acetate	89-48-5	LOEC	0.45 mg/l	algae	72 h
(R)-p-mentha-1,8-diene	5989-27-5	LC50	720 µg/l	fish	96 h
(R)-p-mentha-1,8-diene	5989-27-5	EC50	688 µg/l	fish	96 h
(R)-p-mentha-1,8-diene	5989-27-5	ErC50	0.32 mg/l	algae	72 h
(R)-p-mentha-1,8-diene	5989-27-5	NOEC	0.09 mg/l	algae	48 h
Benzyl salicylate	118-58-1	LC50	1.03 mg/l	fish	96 h
Benzyl salicylate	118-58-1	EC50	1.21 mg/l	aquatic invertebrates	24 h
Benzyl salicylate	118-58-1	ErC50	1.29 mg/l	algae	72 h
Benzyl salicylate	118-58-1	NOEC	0.894 mg/l	aquatic invertebrates	48 h
α,α-dimethylphenethyl butyrate	10094-34-5	EC50	21.3 mg/l	aquatic invertebrates	24 h
(2E)-2-ethyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-buten-1-ol	106185-75-5 28219-61-6	LC50	1.1 mg/l	fish	96 h
(2E)-2-ethyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-buten-1-ol	106185-75-5 28219-61-6	EC50	2.59 mg/l	aquatic invertebrates	24 h
(2E)-2-ethyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-buten-1-ol	106185-75-5 28219-61-6	ErC50	2.5 mg/l	algae	96 h



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### Aquatic toxicity (acute) of components of the mixture

Name of substance	CAS No	Endpoint	Value	Species	Exposure time
(2E)-2-ethyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-buten-1-ol	106185-75-5 28219-61-6	NOEC	0.49 mg/l	fish	96 h
Allyl heptanoate	142-19-8	LC50	0.201 mg/l	fish	24 h
Allyl heptanoate	142-19-8	EC50	0.89 mg/l	aquatic invertebrates	48 h
Allyl heptanoate	142-19-8	ErC50	>4.6 mg/l	algae	72 h
Allyl heptanoate	142-19-8	NOEC	0.158 mg/l	algae	72 h
Allyl heptanoate	142-19-8	LOEC	0.505 mg/l	algae	72 h
Citronellol	106-22-9	LC50	14.66 mg/l	fish	96 h
Citronellol	106-22-9	EC50	17.48 mg/l	aquatic invertebrates	48 h
Citronellol	106-22-9	NOEC	4.6 mg/l	fish	96 h
Aquanal	1205-17-0	LC50	5.3 mg/l	fish	96 h
Aquanal	1205-17-0	EC50	17 mg/l	aquatic invertebrates	24 h
Aquanal	1205-17-0	ErC50	28 mg/l	algae	72 h
Aquanal	1205-17-0	LOEC	4.5 mg/l	fish	96 h
Aquanal	1205-17-0	NOEC	2.4 mg/l	fish	96 h
Floralozone	67634-15-5	LC50	>0.7 mg/l	fish	96 h
Floralozone	67634-15-5	EC50	0.87 mg/l	aquatic invertebrates	48 h
Floralozone	67634-15-5	ErC50	>1.2 mg/l	algae	72 h
Floralozone	67634-15-5	NOEC	1.2 mg/l	algae	72 h
Liffarome	67633-96-9	EC50	10.3 mg/l	aquatic invertebrates	48 h
Liffarome	67633-96-9	ErC50	3.7 mg/l	algae	96 h
3,7-dimethylnona-1,6-dien-3-ol	10339-55-6	LC50	24 mg/l	fish	24 h
3,7-dimethylnona-1,6-dien-3-ol	10339-55-6	EC50	23 mg/l	aquatic invertebrates	48 h
3,7-dimethylnona-1,6-dien-3-ol	10339-55-6	ErC50	25.1 mg/l	algae	72 h



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### Aquatic toxicity (acute) of components of the mixture

Name of substance	CAS No	Endpoint	Value	Species	Exposure time
3,7-dimethylnona-1,6-dien-3-ol	10339-55-6	NOEC	5 mg/l	fish	96 h
3,7-dimethylnona-1,6-dien-3-ol	10339-55-6	LOEC	16 mg/l	fish	96 h
Allyl Caproate	123-68-2	LC50	0.201 mg/l	fish	24 h
Allyl Caproate	123-68-2	EC50	2 mg/l	aquatic invertebrates	48 h
Allyl Caproate	123-68-2	ErC50	>4.6 mg/l	algae	72 h
Allyl Caproate	123-68-2	NOEC	0.158 mg/l	algae	72 h
Allyl Caproate	123-68-2	LOEC	0.505 mg/l	algae	72 h
Aldehyde C-16	77-83-8	LC50	4.2 mg/l	fish	96 h
Aldehyde C-16	77-83-8	EC50	52 mg/l	aquatic invertebrates	48 h
Aldehyde C-16	77-83-8	ErC50	36 mg/l	algae	72 h
Aldehyde C-16	77-83-8	NOEC	3.2 mg/l	fish	96 h
Aldehyde C-16	77-83-8	LOEC	20 mg/l	algae	72 h
Undecavertol	81782-77-6	EC50	1.4 mg/l	algae	72 h
Undecavertol	81782-77-6	ErC50	3.6 mg/l	algae	72 h
Undecavertol	81782-77-6	NOEC	1.3 mg/l	algae	72 h
2,6,10-trimethylundec-9-enal	141-13-9	LC50	>0.609 mg/l	fish	96 h
2,6,10-trimethylundec-9-enal	141-13-9	EL50	0.9 mg/l	aquatic invertebrates	48 h
2,6,10-trimethylundec-9-enal	141-13-9	ErC50	>0.588 mg/l	algae	72 h
2,6,10-trimethylundec-9-enal	141-13-9	NOEC	0.149 mg/l	algae	72 h
Geraniol	106-24-1	LC50	22 mg/l	fish	96 h
Geraniol	106-24-1	EC50	10.8 mg/l	aquatic invertebrates	48 h
Geraniol	106-24-1	ErC50	13.1 mg/l	algae	72 h
Geraniol	106-24-1	NOEC	10 mg/l	fish	96 h



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### Aquatic toxicity (acute) of components of the mixture

Name of substance	CAS No	Endpoint	Value	Species	Exposure time
allyl 3-cyclohexylpropionate	2705-87-5	LC50	0.13 mg/l	fish	96 h
allyl 3-cyclohexylpropionate	2705-87-5	EC50	3.8 mg/l	aquatic invertebrates	48 h
allyl 3-cyclohexylpropionate	2705-87-5	ErC50	3 mg/l	algae	72 h
allyl 3-cyclohexylpropionate	2705-87-5	NOEC	0.86 mg/l	aquatic invertebrates	48 h
Hexyl salicylate	6259-76-3	EC50	0.543 mg/l	aquatic invertebrates	24 h
Hexyl salicylate	6259-76-3	ErC50	0.61 mg/l	algae	72 h
Hexyl salicylate	6259-76-3	NOEC	0.14 mg/l	aquatic invertebrates	24 h
Hexyl salicylate	6259-76-3	LOEC	0.31 mg/l	aquatic invertebrates	24 h
Coumarin	91-64-5	LC50	2.94 mg/l	fish	96 h
Coumarin	91-64-5	EC50	8.012 mg/l	aquatic invertebrates	48 h
Coumarin	91-64-5	NOEC	0.431 mg/l	algae	72 h
citral	5392-40-5	LC50	6.78 mg/l	fish	96 h
citral	5392-40-5	EC50	6.8 mg/l	aquatic invertebrates	48 h
citral	5392-40-5	ErC50	103.8 mg/l	algae	72 h
citral	5392-40-5	NOEC	4.6 mg/l	fish	96 h
Acetyl cedrene	32388-55-9	LC50	2.3 mg/l	fish	96 h
Acetyl cedrene	32388-55-9	EC50	0.86 mg/l	aquatic invertebrates	48 h
Acetyl cedrene	32388-55-9	ErC50	>4.3 mg/l	algae	96 h
Acetyl cedrene	32388-55-9	NOEC	1.07 mg/l	algae	96 h
Hydroxycitronellal	107-75-5	LC50	31.6 mg/l	fish	96 h
Hydroxycitronellal	107-75-5	EC50	410 mg/l	aquatic invertebrates	48 h
Hydroxycitronellal	107-75-5	ErC50	123.3 mg/l	algae	72 h
Piperonal	120-57-0	LC50	1.6 mg/l	fish	24 h
Piperonal	120-57-0	EC50	82 mg/l	aquatic invertebrates	24 h



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### Aquatic toxicity (acute) of components of the mixture

Name of substance	CAS No	Endpoint	Value	Species	Exposure time
Piperonal	120-57-0	ErC50	31 mg/l	algae	72 h
Piperonal	120-57-0	NOEC	1.6 mg/l	fish	96 h
Cinnamyl alcohol	104-54-1	LC50	9 mg/l	fish	96 h
Cinnamyl alcohol	104-54-1	EC50	7.7 mg/l	aquatic invertebrates	48 h
Cinnamyl alcohol	104-54-1	ErC50	19.7 mg/l	algae	72 h

### Aquatic toxicity (chronic) of components of the mixture

Name of substance	CAS No	Endpoint	Value	Species	Exposure time
Hexyl cinnamaldehyde	101-86-0 165184-98-5	EC50	>157 µg/l	aquatic invertebrates	21 d
Hexyl cinnamaldehyde	101-86-0 165184-98-5	NOEC	63 µg/l	aquatic invertebrates	21 d
Hexyl cinnamaldehyde	101-86-0 165184-98-5	LOEC	157 µg/l	aquatic invertebrates	21 d
Cyclamal	103-95-7	EC50	1.7 mg/l	aquatic invertebrates	21 d
Cyclamal	103-95-7	NOEC	0.44 mg/l	aquatic invertebrates	21 d
Lilial	80-54-6	NOEC	>200 µg/l	fish	21 d
Linalool	78-70-6	LC50	27.8 mg/l	fish	24 h
Linalool	78-70-6	EC50	>100 mg/l	microorganisms	30 min
Dihydromyrcenol	18479-58-8	EC50	17 mg/l	aquatic invertebrates	21 d
Dihydromyrcenol	18479-58-8	NOEC	9.5 mg/l	aquatic invertebrates	21 d
DMBC Acetate	151-05-3	EC50	684 mg/l	microorganisms	3 h
DMBC Acetate	151-05-3	NOEC	312.5 mg/l	microorganisms	3 h
DMBC Acetate	151-05-3	LOEC	1,000 mg/l	microorganisms	3 h
Menthyl acetate	89-48-5	NOEC	2.6 mg/l	microorganisms	14 d
(R)-p-mentha-1,8-diene	5989-27-5	EC50	<0.67 mg/l	fish	8 d
(R)-p-mentha-1,8-diene	5989-27-5	LC50	0.41 mg/l	fish	8 d



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### Aquatic toxicity (chronic) of components of the mixture

Name of substance	CAS No	Endpoint	Value	Species	Exposure time
(R)-p-mentha-1,8-diene	5989-27-5	NOEC	0.37 mg/l	fish	8 d
(R)-p-mentha-1,8-diene	5989-27-5	LOEC	0.67 mg/l	fish	8 d
Benzyl salicylate	118-58-1	EC50	1.21 mg/l	aquatic invertebrates	24 h
Benzyl salicylate	118-58-1	LC50	4.34 mg/l	aquatic invertebrates	24 h
$\alpha,\alpha$ -dimethylphenethyl butyrate	10094-34-5	EC50	684 mg/l	microorganisms	3 h
$\alpha,\alpha$ -dimethylphenethyl butyrate	10094-34-5	NOEC	312.5 mg/l	microorganisms	3 h
$\alpha,\alpha$ -dimethylphenethyl butyrate	10094-34-5	LOEC	1,000 mg/l	microorganisms	3 h
(2E)-2-ethyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-buten-1-ol	106185-75-5 28219-61-6	EC50	0.788 mg/l	aquatic invertebrates	21 d
(2E)-2-ethyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-buten-1-ol	106185-75-5 28219-61-6	NOEC	0.23 mg/l	fish	28 d
(2E)-2-ethyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-buten-1-ol	106185-75-5 28219-61-6	LOEC	0.84 mg/l	aquatic invertebrates	21 d
Citronellol	106-22-9	EC50	>10,000 mg/l	microorganisms	30 min
Aquanal	1205-17-0	EC50	$\leq$ 1,000 mg/l	microorganisms	3 h
Aquanal	1205-17-0	NOEC	100 mg/l	microorganisms	3 h
Floralozone	67634-15-5	EC50	1.7 mg/l	aquatic invertebrates	21 d
Floralozone	67634-15-5	NOEC	0.7 mg/l	aquatic invertebrates	21 d
3,7-dimethylnona-1,6-dien-3-ol	10339-55-6	EC50	59 mg/l	aquatic invertebrates	24 h
3,7-dimethylnona-1,6-dien-3-ol	10339-55-6	LC50	28 mg/l	fish	3 h
Undecavertol	81782-77-6	NOEC	25 $\mu$ g/l	aquatic invertebrates	21 d
Geraniol	106-24-1	EC50	70 mg/l	microorganisms	30 min
allyl 3-cyclohexylpropionate	2705-87-5	EC50	7.7 mg/l	aquatic invertebrates	24 h



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### Aquatic toxicity (chronic) of components of the mixture

Name of substance	CAS No	Endpoint	Value	Species	Exposure time
allyl 3-cyclohexylpropionate	2705-87-5	NOEC	59 µg/l	fish	28 d
allyl 3-cyclohexylpropionate	2705-87-5	LOEC	180 µg/l	fish	28 d
Coumarin	91-64-5	NOEC	0.191 mg/l	fish	30 d
citral	5392-40-5	EC50	160 mg/l	microorganisms	30 min
Acetyl cedrene	32388-55-9	EC50	0.32 mg/l	aquatic invertebrates	21 d
Acetyl cedrene	32388-55-9	NOEC	0.087 mg/l	aquatic invertebrates	21 d
Acetyl cedrene	32388-55-9	LOEC	0.23 mg/l	aquatic invertebrates	21 d
Piperonal	120-57-0	LC50	1.6 mg/l	fish	24 h
Piperonal	120-57-0	EC50	82 mg/l	aquatic invertebrates	24 h

### 12.2 Persistence and degradability

Data are not available.

### 12.3 Bioaccumulative potential

Data are not available.

### 12.4 Mobility in soil

Data are not available.

### 12.5 Results of PBT and vPvB assessment

According to the results of its assessment, this substance is not a PBT or a vPvB. Does not contain a PBT-/vPvB-substance at a concentration of  $\geq 0.1\%$ .

### 12.6 Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) in a concentration of  $\geq 0.1\%$ .

### 12.7 Other adverse effects

Data are not available.



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### SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods

Waste treatment-relevant information

Solvent reclamation/regeneration.

Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

Waste treatment of containers/packages

Only packagings which are approved (e.g. acc. to DOT) may be used. Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

#### Remarks

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

### SECTION 14: Transport information

#### 14.1 UN number

DOT	UN 3082
IMDG-Code	UN 3082
ICAO-TI	UN 3082

#### 14.2 UN proper shipping name

DOT	Environmentally hazardous substance, liquid, n.o.s.
IMDG-Code	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
ICAO-TI	Environmentally hazardous substance, liquid, n.o.s.
Technical name (hazardous ingredients)	Hexyl cinnamaldehyde, cis-2-tert-butylcyclohexyl acetate

#### 14.3 Transport hazard class(es)

DOT	9
IMDG-Code	9
ICAO-TI	9

#### 14.4 Packing group

DOT	III
IMDG-Code	III
ICAO-TI	III

#### 14.5 Environmental hazards

hazardous to the aquatic environment



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Environmentally hazardous substance (aquatic environment)

Hexyl cinnamaldehyde, cis-2-tert-butylcyclohexyl acetate

### 14.6 Special precautions for user

There is no additional information.

### 14.7 Transport in bulk according to IMO instruments

The cargo is not intended to be carried in bulk.

### Information for each of the UN Model Regulations

Not regulated when carried in single or combination packaging containing a net quantity of 5L or less or 5 kg or less per the following:

DOT: 171.4(2)

ADR: SP 375

IMDG: 2.10.2.7

IATA: special provision A197, DOT

### Transport of dangerous goods by road or rail (49 CFR US DOT) - Additional information

Particulars in the shipper's declaration

UN3082, Environmentally hazardous substance, liquid, n.o.s., (contains: Hexyl cinnamaldehyde, cis-2-tert-butylcyclohexyl acetate), 9, III

Reportable quantity (RQ)

1,562,598 lbs (709,419 kg) (isopentyl acetate)

Danger label(s)

9, fish and tree



Environmental hazards

yes (hazardous to the aquatic environment)

Special provisions (SP)

8, 146, 173, 335, IB3, T4, TP1, TP29

ERG No

171

### International Maritime Dangerous Goods Code (IMDG) - Additional information

Particulars in the shipper's declaration

UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (contains: Hexyl cinnamaldehyde, cis-2-tert-butylcyclohexyl acetate), 9, III

Marine pollutant

yes (hazardous to the aquatic environment) (Hexyl cinnamaldehyde)

Danger label(s)

9, fish and tree



Special provisions (SP)

274, 335, 969

Excepted quantities (EQ)

E1

Limited quantities (LQ)

5 L



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EmS	F-A, S-F
Stowage category	A
<b>International Civil Aviation Organization (ICAO-IATA/DGR) - Additional information</b>	
Particulars in the shipper's declaration	UN3082, Environmentally hazardous substance, liquid, n.o.s., (contains: Hexyl cinnamaldehyde, cis-2-tert-butylcyclohexyl acetate), 9, III
Environmental hazards	yes (hazardous to the aquatic environment)
Danger label(s)	9, fish and tree
Special provisions (SP)	A97, A158, A197
Excepted quantities (EQ)	E1
Limited quantities (LQ)	30 kg

### SECTION 15: Regulatory information

#### 15.1 Safety, health and environmental regulations specific for the product in question

##### National regulations (United States)

**Toxic Substance Control Act (TSCA)** all ingredients are listed (ACTIVE) or exempt from listing

##### Superfund Amendment and Reauthorization Act (SARA TITLE III )

- The List of Extremely Hazardous Substances and Their Threshold Planning Quantities (EPCRA Section 302, 304)

none of the ingredients are listed

- Specific Toxic Chemical Listings (EPCRA Section 313)

none of the ingredients are listed

##### Clean Air Act

none of the ingredients are listed

##### Right to Know Hazardous Substance List

- Cleaning Product Right to Know Act Substance List (CA-RTK)

Name of substance	CAS No	Functionality	Authoritative Lists
Hexyl cinnamaldehyde	101-86-0	fragrance	EU Fragrance Allergens
cis-2-tert-butylcyclohexyl acetate	20298-69-5 88-41-5	fragrance	
Aldehyde C-14	104-67-6	fragrance	



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Name of substance	CAS No	Functionality	Authoritative Lists
Lilial	80-54-6		EC Annex VI CMRs - Cat. 1B
Linalool	78-70-6	fragrance	EU Fragrance Allergens
Dihydromyrcenol	18479-58-8	fragrance	
DMBC Acetate	151-05-3		EU Fragrance Allergens
Menthyl acetate	89-48-5	fragrance	
(R)-p-mentha-1,8-diene	5989-27-5	fragrance	EU Fragrance Allergens
Benzyl salicylate	118-58-1	fragrance	EU Fragrance Allergens
(2E)-2-ethyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-buten-1-ol	106185-75-5 28219-61-6	fragrance	
$\alpha,\alpha$ -dimethylphenethyl butyrate	10094-34-5	fragrance	
Allyl heptanoate	142-19-8	fragrance	
Tricyclodecanyl propionate	68912-13-0 17511-60-3	fragrance	
Citronellol	106-22-9	fragrance	EU Fragrance Allergens
Aquanal	1205-17-0	fragrance	
3-(o-Ethylphenyl)-2,2-dimethylpropionaldehyde	67634-14-4	fragrance	
Allyl Caproate	123-68-2	fragrance	
Aldehyde C-16	77-83-8	fragrance	
2,6,10-trimethylundec-9-enal	141-13-9	fragrance	
Liffarome	67633-96-9	fragrance	
3,7-dimethylnona-1,6-dien-3-ol	10339-55-6	fragrance	
2,4-dimethylcyclohex-3-ene-1-carbaldehyde	68039-49-6	fragrance	
Undecavertol	81782-77-6	fragrance	
Floralozone	67634-15-5	fragrance	
allyl 3-cyclohexylpropionate	2705-87-5	fragrance	
Geraniol	106-24-1	fragrance	EU Fragrance Allergens
delta-Damascone	57378-68-4		EU Fragrance Allergens
Hexyl salicylate	6259-76-3	fragrance	
alpha-isomethyl ionone	127-51-5	fragrance	EU Fragrance Allergens



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Name of substance	CAS No	Functionality	Authoritative Lists
Coumarin	91-64-5	fragrance	EU Fragrance Allergens
isopentyl acetate	123-92-2	fragrance	
citral	5392-40-5	fragrance	EU Fragrance Allergens
Piperonal	120-57-0	fragrance	
Hydroxycitronellal	107-75-5	fragrance	EU Fragrance Allergens
Acetyl cedrene	32388-55-9		EU Fragrance Allergens
Cinnamyl alcohol	104-54-1		EU Fragrance Allergens
(E)-1-(2,6,6-trimethyl-1,3-cyclohexadien-1-yl)-2-buten-1-one	23696-85-7		EU Fragrance Allergens

### - Hazardous Substance List (NJ-RTK)

Name of substance	CAS No	Remarks	Classifications
(R)-p-mentha-1,8-diene	138-86-3		F2

#### Legend

F2 Flammable - Second Degree

### California Environmental Protection Agency (Cal/EPA): Proposition 65 - Safe Drinking Water and Toxic Enforcement Act of 1987

none of the ingredients are listed

### Drug precursors, Chemicals designated within the Controlled Substances Act, 21 U.S.C. § 802, paragraphs 34 (list I) and 35 (list II)

Name of substance	CAS No	Listed in	Special conditions	Excluded transactions	DEA - code	Concentration limit
Piperonal	120-57-0	List I chemicals			8750	20% by Weight or Volume

#### Legend

List I The term "list I chemical" means a chemical specified by regulation of the Attorney General as a chemical that is used in manufacturing a controlled substance in violation of this subchapter and is important to the manufacture of the controlled substances.

### New Zealand HSNO Approval Number

HSR002574 Food Additives and Fragrance Materials (Combustible) Group Standard 2020



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### Industry or sector specific available guidance(s)

#### NPCA-HMIS® III

Hazardous Materials Identification System. American Coatings Association.

Category	Rating	Description
Chronic	*	chronic (long-term) health effects may result from repeated overexposure
Health	2	temporary or minor injury may occur
Flammability	2	material that must be moderately heated or exposed to relatively high ambient temperatures before ignition can occur
Physical hazard	0	material that is normally stable, even under fire conditions, and will not react with water, polymerize, decompose, condense, or self-react. Non-explosive
Personal protection	-	

#### NFPA® 704

National Fire Protection Association: Standard System for the Identification of the Hazards of Materials for Emergency Response (United States).

Category	Degree of hazard	Description
Flammability	2	material that must be moderately heated or exposed to relatively high ambient temperatures before ignition can occur
Health	2	material that, under emergency conditions, can cause temporary incapacitation or residual injury
Instability	0	material that is normally stable, even under fire conditions
Special hazard		

### National inventories

Country	Inventory	Status
AU	AIIC	all ingredients are listed
CA	DSL	all ingredients are listed
CA	NDSL	not all ingredients are listed
CN	IECSC	all ingredients are listed
EU	ECSI	all ingredients are listed
EU	REACH Reg.	not all ingredients are listed
JP	CSCL-ENCS	not all ingredients are listed



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Country	Inventory	Status
JP	ISHA-ENCS	not all ingredients are listed
KR	KECI	not all ingredients are listed
MX	INSQ	not all ingredients are listed
NZ	NZIoC	all ingredients are listed
PH	PICCS	all ingredients are listed
TR	CICR	not all ingredients are listed
TW	TCSI	all ingredients are listed
US	TSCA	all ingredients are listed (ACTIVE)
VN	NCI	all ingredients are listed

### Legend

AIIC	Australian Inventory of Industrial Chemicals
CICR	Chemical Inventory and Control Regulation
CSCL-ENCS	List of Existing and New Chemical Substances (CSCL-ENCS)
DSL	Domestic Substances List (DSL)
ECSI	EC Substance Inventory (EINECS, ELINCS, NLP)
IECSC	Inventory of Existing Chemical Substances Produced or Imported in China
INSQ	National Inventory of Chemical Substances
ISHA-ENCS	Inventory of Existing and New Chemical Substances (ISHA-ENCS)
KECI	Korea Existing Chemicals Inventory
NCI	National Chemical Inventory
NDSL	Non-domestic Substances List (NDSL)
NZIoC	New Zealand Inventory of Chemicals
PICCS	Philippine Inventory of Chemicals and Chemical Substances (PICCS)
REACH Reg.	REACH registered substances
TCSI	Taiwan Chemical Substance Inventory
TSCA	Toxic Substance Control Act

## 15.2 Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

## SECTION 16: Other information, including date of preparation or last revision

### Indication of changes (revised safety data sheet)

Section	Former entry (text/value)	Actual entry (text/value)	Safety-relevant
2.3		Hazards not otherwise classified: change in the listing (table)	yes
2.3	Results of PBT and vPvB assessment: Does not contain a PBT-/vPvB-substance in a concentration of $\geq 0.1\%$ .	Results of PBT and vPvB assessment: Does not contain a PBT-/vPvB-substance at a concentration of $\geq 0.1\%$ .	yes



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Section	Former entry (text/value)	Actual entry (text/value)	Safety-relevant
2.3	Endocrine disrupting properties: Does not contain an endocrine disruptor (EDC) in a concentration of $\geq 0.1\%$ .	Endocrine disrupting properties: Does not contain an endocrine disruptor (ED) in a concentration of $\geq 0.1\%$ .	yes
3.2		Description of the mixture: change in the listing (table)	yes
3.2		Remarks: For full text of abbreviations: see SECTION 16	yes
8.1		Occupational exposure limit values (Workplace Exposure Limits): change in the listing (table)	yes
8.1		Relevant DNELs of components: change in the listing (table)	yes
8.1		Relevant PNECs of components: change in the listing (table)	yes
11.1	Acute toxicity: Shall not be classified as acutely toxic.GHS of the United Nations, annex 4: May be harmful if swallowed.	Acute toxicity: Shall not be classified as acutely toxic.GHS of the United Nations, annex 4: May be harmful if swallowed or in contact with skin.	yes
11.1		Acute toxicity estimate (ATE) of components: change in the listing (table)	yes
12.1		Aquatic toxicity (acute) of components of the mixture: change in the listing (table)	yes
12.1		Aquatic toxicity (chronic) of components of the mixture: change in the listing (table)	yes
12.5	Results of PBT and vPvB assessment: According to the results of its assessment, this substance is not a PBT or a vPvB. Does not contain a PBT-/vPvB-substance in a concentration of $\geq 0.1\%$ .	Results of PBT and vPvB assessment: According to the results of its assessment, this substance is not a PBT or a vPvB. Does not contain a PBT-/vPvB-substance at a concentration of $\geq 0.1\%$ .	yes
12.6	Endocrine disrupting properties: Does not contain an endocrine disruptor (EDC) in a concentration of $\geq 0.1\%$ .	Endocrine disrupting properties: Does not contain an endocrine disruptor (ED) in a concentration of $\geq 0.1\%$ .	yes
15.1		Cleaning Product Right to Know Act Substance List (CA-RTK): change in the listing (table)	yes
15.1		New Zealand HSNO Approval Number: HSR002574 Food Additives and Fragrance Materials (Combustible) Group Standard 2020	yes



# Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

## Armor All FRESHfx Car Air Freshener Island Oasis Vent Clip

Version number: GHS 8.0  
Replaces version of: 2023-08-24 (GHS 7)

Revision: 2024-05-17

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### Key literature references and sources for data

OSHA Hazard Communication Standard (HCS), 29 CFR 1910.1200.

Transport of dangerous goods by road or rail (49 CFR US DOT). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

### Classification procedure

Physical and chemical properties: The classification is based on tested mixture.

Health hazards, Environmental hazards: The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

### Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.