

## Armor All FRESHfx Car Air Freshener New Car Vent Clip

Version number: 9.0  
Replaces version of: 2024-01-24 (8)

Revision: 2025-09-18

### SECTION 1: Identification

#### 1.1 Product identifier

Trade name **Armor All FRESHfx Car Air Freshener New Car Vent Clip**

Alternative number(s) 070612185495, 070612191045

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

Relevant identified uses Consumer uses: Air Freshener

#### 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: <https://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.4S    | skin sensitization        | 1        | Skin Sens. 1              | H317             |
| 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. The mixture contains a substance that was identified as a PBT (persistent, bioaccumulative and toxic). The mixture contains a substance that was identified as vPvB (very persistent and very bioaccumulative).

#### 2.2 Label elements

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

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- Signal word                      warning

- Pictograms

GHS07



- Hazard statements

|      |                                      |
|------|--------------------------------------|
| H227 | Combustible liquid.                  |
| H315 | Causes skin irritation.              |
| H317 | May cause an allergic skin reaction. |

- Precautionary statements

|           |                                                                                 |
|-----------|---------------------------------------------------------------------------------|
| P101      | If medical advice is needed, have product container or label at hand.           |
| P102      | Keep out of reach of children.                                                  |
| P103      | Read label before use.                                                          |
| P210      | Keep away from heat/sparks/open flames/hot surfaces. No smoking.                |
| P261      | Avoid breathing dust/fume/gas/mist/vapors/spray.                                |
| 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.                                          |
| P321      | Specific treatment (see on this label).                                         |
| P333+P313 | If skin irritation or rash occurs: 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.                                    |
| P501      | Dispose of contents/container in accordance with national regulations.          |

- Hazardous ingredients for labelling

1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one, Lyrall, Mayol, Lemon Oil, Acetyl cedrene, Linalool, (R)-p-mentha-1,8-diene, benzyl alcohol, Coumarin, 3,7-dimethylnona-1,6-dien-3-ol, Linalyl acetate

### 2.3 Other hazards

Hazards not otherwise classified

Very toxic to aquatic life with long lasting effects (GHS category 1: aquatic toxicity - acute and/or chronic).

Results of PBT and vPvB assessment

Contains a PBT-substance at a concentration of  $\geq 0.1\%$ . Contains a 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)

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### 3.2 Mixtures

Description of the mixture

| Name of substance                                                       | Identifier        | Wt%       | Classification acc. to GHS                                                                 | Pictograms                                                                            |
|-------------------------------------------------------------------------|-------------------|-----------|--------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 3,5,5-trimethylhexyl acetate                                            | CAS No 58430-94-7 | 10 – < 25 | Skin Irrit. 2 / H315<br>Flam. Liq. 4 / H227                                                |    |
| Decamethylcyclopentasiloxane                                            | CAS No 541-02-6   | 10 – < 25 | Flam. Liq. 4 / H227                                                                        |                                                                                       |
| 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one | CAS No 54464-57-2 | 10 – < 25 | Skin Irrit. 2 / H315<br>Skin Sens. 1 / H317                                                |    |
| Mayol                                                                   | CAS No 5502-75-0  | 10 – < 25 | Skin Irrit. 2 / H315<br>Skin Sens. 1B / H317                                               |    |
| Florosol                                                                | CAS No 63500-71-0 | 5 – < 10  | Eye Irrit. 2 / H319                                                                        |   |
| Distillates (petroleum), hydrotreated light                             | CAS No 64742-47-8 | 5 – < 10  | Asp. Tox. 1 / H304<br>Flam. Liq. 3 / H226                                                  |  |
| Lylal                                                                   | CAS No 31906-04-4 | 5 – < 10  | Skin Sens. 1A / H317                                                                       |  |
| Menthyl acetate                                                         | CAS No 89-48-5    | 1 – < 5   | Flam. Liq. 4 / H227                                                                        |                                                                                       |
| Linalool                                                                | CAS No 78-70-6    | 1 – < 5   | Skin Irrit. 2 / H315<br>Eye Irrit. 2 / H319<br>Skin Sens. 1B / H317<br>Flam. Liq. 4 / H227 |  |
| 3,7-dimethylnona-1,6-dien-3-ol                                          | CAS No 10339-55-6 | 1 – < 5   | Skin Irrit. 2 / H315<br>Eye Irrit. 2 / H319<br>Skin Sens. 1B / H317<br>Flam. Liq. 4 / H227 |  |
| Acetyl cedrene                                                          | CAS No 32388-55-9 | < 1       | Skin Sens. 1B / H317                                                                       |  |
| benzyl alcohol                                                          | CAS No 100-51-6   | < 1       | Acute Tox. 4 / H302<br>Acute Tox. 4 / H332<br>Eye Irrit. 2 / H319<br>Skin Sens. 1B / H317  |  |
| Linalyl acetate                                                         | CAS No 115-95-7   | < 1       | Skin Irrit. 2 / H315<br>Eye Irrit. 2 / H319<br>Skin Sens. 1B / H317<br>Flam. Liq. 4 / H227 |  |
| Lemon Oil                                                               | CAS No 8008-56-8  | < 1       | Skin Irrit. 2 / H315<br>Skin Sens. 1 / H317                                                |  |

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| Name of substance      | Identifier          | Wt% | Classification acc. to GHS                                                               | Pictograms                                                                                                                                                                                                                                                  |
|------------------------|---------------------|-----|------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                        | 84929-31-7          |     | Asp. Tox. 1 / H304<br>Flam. Liq. 3 / H226                                                |                                                                                                                                                                                                                                                             |
| (R)-p-mentha-1,8-diene | CAS No<br>5989-27-5 | < 1 | Skin Irrit. 2 / H315<br>Skin Sens. 1 / H317<br>Asp. Tox. 1 / H304<br>Flam. Liq. 3 / H226 |    |
| Coumarin               | CAS No<br>91-64-5   | < 1 | Acute Tox. 3 / H301<br>Acute Tox. 3 / H311<br>Skin Sens. 1 / H317                        |                                                                                       |

### Remarks

For full text of abbreviations: see SECTION 16

## 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 (CO2)

#### Unsuitable extinguishing media

Water jet

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### **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.

## **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.

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### - 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.

### 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      | benzyl acetate | 140-11-4 | PEL (CA)   | 10        | 61                       |            |                           |                 |                                |          | Cal/OSHA PEL |
| US      | benzyl acetate | 140-11-4 | TLV®       | 10        | 61                       |            |                           |                 |                                |          | ACGIH® 2025  |

#### Notation

Ceiling-C ceiling value is a limit value above which exposure should not occur

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              |
| 3,5,5-trimethylhexyl acetate   | 58430-94-7 | DNEL      | 5.64 mg/m <sup>3</sup>  | human, inhalatory                  | worker (industry) | chronic - systemic effects |
| 3,5,5-trimethylhexyl acetate   | 58430-94-7 | DNEL      | 0.8 mg/kg bw/day        | human, dermal                      | worker (industry) | chronic - systemic effects |
| Decamethylcyclopentasiloxane   | 541-02-6   | DNEL      | 97.3 mg/m <sup>3</sup>  | human, inhalatory                  | worker (industry) | acute - systemic effects   |
| Decamethylcyclopentasiloxane   | 541-02-6   | DNEL      | 24.2 mg/m <sup>3</sup>  | human, inhalatory                  | worker (industry) | acute - local effects      |
| Decamethylcyclopentasiloxane   | 541-02-6   | DNEL      | 97.3 mg/m <sup>3</sup>  | human, inhalatory                  | worker (industry) | chronic - systemic effects |
| Decamethylcyclopentasiloxane   | 541-02-6   | DNEL      | 24.2 mg/m <sup>3</sup>  | human, inhalatory                  | worker (industry) | chronic - local effects    |
| Mayol                          | 5502-75-0  | DNEL      | 6.63 mg/m <sup>3</sup>  | human, inhalatory                  | worker (industry) | chronic - systemic effects |
| Mayol                          | 5502-75-0  | DNEL      | 1.88 mg/kg bw/day       | human, dermal                      | worker (industry) | chronic - systemic effects |
| Florosol                       | 63500-71-0 | DNEL      | 44.1 mg/m <sup>3</sup>  | human, inhalatory                  | worker (industry) | chronic - systemic effects |
| Florosol                       | 63500-71-0 | DNEL      | 41.7 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 |
| 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 |
| 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-              | 10339-55-6 | DNEL      | 5.5 mg/kg               | human, dermal                      | worker (industry) | acute - systemic ef-       |

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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              |
|------------------------|-------------------------|-----------|--------------------------|------------------------------------|-------------------|----------------------------|
| 1,6-dien-3-ol          |                         |           | bw/day                   |                                    |                   | fects                      |
| 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 |
| benzyl alcohol         | 100-51-6                | DNEL      | 40 mg/kg                 | human, dermal                      | worker (industry) | acute - systemic effects   |
| benzyl alcohol         | 100-51-6                | DNEL      | 110 mg/m <sup>3</sup>    | human, inhalatory                  | worker (industry) | acute - systemic effects   |
| benzyl alcohol         | 100-51-6                | DNEL      | 8 mg/kg                  | human, dermal                      | worker (industry) | chronic - systemic effects |
| benzyl alcohol         | 100-51-6                | DNEL      | 22 mg/m <sup>3</sup>     | human, inhalatory                  | worker (industry) | chronic - systemic effects |
| Linalyl acetate        | 115-95-7                | DNEL      | 2.75 mg/m <sup>3</sup>   | human, inhalatory                  | worker (industry) | chronic - systemic effects |
| Linalyl acetate        | 115-95-7                | DNEL      | 2.5 mg/kg bw/day         | human, dermal                      | worker (industry) | chronic - systemic effects |
| Linalyl acetate        | 115-95-7                | DNEL      | 236.2 µg/cm <sup>2</sup> | human, dermal                      | worker (industry) | chronic - local effects    |
| Linalyl acetate        | 115-95-7                | DNEL      | 236.2 µg/cm <sup>2</sup> | human, dermal                      | worker (industry) | acute - local effects      |
| Lemon Oil              | 8008-56-8<br>84929-31-7 | DNEL      | 23.3 mg/m <sup>3</sup>   | human, inhalatory                  | worker (industry) | chronic - systemic effects |
| Lemon Oil              | 8008-56-8<br>84929-31-7 | DNEL      | 6.67 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 |
| 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 |



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| Relevant PNECs of components  |            |           |                 |                        |                              |                              |
|-------------------------------|------------|-----------|-----------------|------------------------|------------------------------|------------------------------|
| Name of sub-stance            | CAS No     | End-point | Threshold level | Organism               | Environmental compartment    | Exposure time                |
| 3,5,5-trimethylhexyl acetate  | 58430-94-7 | PNEC      | 2.66 mg/kg      | aquatic organ-isms     | water                        | short-term (single instance) |
| 3,5,5-trimethylhexyl acetate  | 58430-94-7 | PNEC      | 77 µg/l         | aquatic organ-isms     | water                        | intermittent re-lease        |
| 3,5,5-trimethylhexyl acetate  | 58430-94-7 | PNEC      | 7.7 µg/l        | aquatic organ-isms     | freshwater                   | short-term (single instance) |
| 3,5,5-trimethylhexyl acetate  | 58430-94-7 | PNEC      | 0.77 µg/l       | aquatic organ-isms     | marine water                 | short-term (single instance) |
| 3,5,5-trimethylhexyl acetate  | 58430-94-7 | PNEC      | 10 mg/l         | aquatic organ-isms     | sewage treatment plant (STP) | short-term (single instance) |
| 3,5,5-trimethylhexyl acetate  | 58430-94-7 | PNEC      | 2.895 mg/kg     | aquatic organ-isms     | freshwater sedi-ment         | short-term (single instance) |
| 3,5,5-trimethylhexyl acetate  | 58430-94-7 | PNEC      | 0.29 mg/kg      | aquatic organ-isms     | marine sediment              | short-term (single instance) |
| 3,5,5-trimethylhexyl acetate  | 58430-94-7 | PNEC      | 0.573 mg/kg     | terrestrial organ-isms | soil                         | short-term (single instance) |
| Decamethylcyclo-pentasiloxane | 541-02-6   | PNEC      | 1.2 µg/l        | aquatic organ-isms     | freshwater                   | short-term (single instance) |
| Decamethylcyclo-pentasiloxane | 541-02-6   | PNEC      | 0.12 µg/l       | aquatic organ-isms     | marine water                 | short-term (single instance) |
| Decamethylcyclo-pentasiloxane | 541-02-6   | PNEC      | 10 mg/l         | aquatic organ-isms     | sewage treatment plant (STP) | short-term (single instance) |
| Decamethylcyclo-pentasiloxane | 541-02-6   | PNEC      | 11 mg/kg        | aquatic organ-isms     | freshwater sedi-ment         | short-term (single instance) |
| Decamethylcyclo-pentasiloxane | 541-02-6   | PNEC      | 1.1 mg/kg       | aquatic organ-isms     | marine sediment              | short-term (single instance) |
| Decamethylcyclo-pentasiloxane | 541-02-6   | PNEC      | 2.54 mg/kg      | terrestrial organ-isms | soil                         | short-term (single instance) |
| Mayol                         | 5502-75-0  | PNEC      | 3.5 µg/l        | aquatic organ-isms     | freshwater                   | short-term (single instance) |
| Mayol                         | 5502-75-0  | PNEC      | 3.5 µg/l        | aquatic organ-isms     | marine water                 | short-term (single instance) |
| Mayol                         | 5502-75-0  | PNEC      | 1.9 mg/l        | aquatic organ-isms     | sewage treatment plant (STP) | short-term (single instance) |
| Mayol                         | 5502-75-0  | PNEC      | 2.118 mg/kg     | aquatic organ-isms     | freshwater sedi-ment         | short-term (single instance) |
| Mayol                         | 5502-75-0  | PNEC      | 211.8 µg/kg     | aquatic organ-isms     | marine sediment              | short-term (single instance) |
| Mayol                         | 5502-75-0  | PNEC      | 403 µg/kg       | terrestrial organ-isms | soil                         | short-term (single instance) |

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|------------------------------|------------|-----------|-----------------|-----------------------|------------------------------|------------------------------|
| Name of substance            | CAS No     | End-point | Threshold level | Organism              | Environmental compartment    | Exposure time                |
| Florosol                     | 63500-71-0 | PNEC      | 0.94 mg/l       | aquatic organisms     | water                        | intermittent release         |
| Florosol                     | 63500-71-0 | PNEC      | 0.094 mg/l      | aquatic organisms     | freshwater                   | short-term (single instance) |
| Florosol                     | 63500-71-0 | PNEC      | 0.009 mg/l      | aquatic organisms     | marine water                 | short-term (single instance) |
| Florosol                     | 63500-71-0 | PNEC      | 10 mg/l         | aquatic organisms     | sewage treatment plant (STP) | short-term (single instance) |
| Florosol                     | 63500-71-0 | PNEC      | 0.412 mg/kg     | aquatic organisms     | freshwater sediment          | short-term (single instance) |
| Florosol                     | 63500-71-0 | PNEC      | 0.041 mg/kg     | aquatic organisms     | marine sediment              | short-term (single instance) |
| Florosol                     | 63500-71-0 | PNEC      | 0.09 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) |
| 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) |
| 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) |
| 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) |

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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      | 0.327 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) |
| 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) |
| benzyl alcohol                 | 100-51-6   | PNEC      | 1 mg/l          | aquatic organisms     | freshwater                   | short-term (single instance) |
| benzyl alcohol                 | 100-51-6   | PNEC      | 0.1 mg/l        | aquatic organisms     | marine water                 | short-term (single instance) |
| benzyl alcohol                 | 100-51-6   | PNEC      | 39 mg/l         | aquatic organisms     | sewage treatment plant (STP) | short-term (single instance) |
| benzyl alcohol                 | 100-51-6   | PNEC      | 5.27 mg/kg      | aquatic organisms     | freshwater sediment          | short-term (single instance) |
| benzyl alcohol                 | 100-51-6   | PNEC      | 0.527 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 alcohol               | 100-51-6                | PNEC      | 0.456 mg/kg     | terrestrial organisms | soil                         | short-term (single instance) |
| benzyl alcohol               | 100-51-6                | PNEC      | 2.3 mg/l        | aquatic organisms     | water                        | intermittent release         |
| Linalyl acetate              | 115-95-7                | PNEC      | 0.11 mg/l       | aquatic organisms     | water                        | intermittent release         |
| Linalyl acetate              | 115-95-7                | PNEC      | 0.011 mg/l      | aquatic organisms     | freshwater                   | short-term (single instance) |
| Linalyl acetate              | 115-95-7                | PNEC      | 0.001 mg/l      | aquatic organisms     | marine water                 | short-term (single instance) |
| Linalyl acetate              | 115-95-7                | PNEC      | 1 mg/l          | aquatic organisms     | sewage treatment plant (STP) | short-term (single instance) |
| Linalyl acetate              | 115-95-7                | PNEC      | 0.609 mg/kg     | aquatic organisms     | freshwater sediment          | short-term (single instance) |
| Linalyl acetate              | 115-95-7                | PNEC      | 0.061 mg/kg     | aquatic organisms     | marine sediment              | short-term (single instance) |
| Linalyl acetate              | 115-95-7                | PNEC      | 0.115 mg/kg     | terrestrial organisms | soil                         | short-term (single instance) |
| Lemon Oil                    | 8008-56-8<br>84929-31-7 | PNEC      | 5.4 µg/l        | aquatic organisms     | freshwater                   | short-term (single instance) |
| Lemon Oil                    | 8008-56-8<br>84929-31-7 | PNEC      | 0.54 µg/l       | aquatic organisms     | marine water                 | short-term (single instance) |
| Lemon Oil                    | 8008-56-8<br>84929-31-7 | PNEC      | 2.1 mg/l        | aquatic organisms     | sewage treatment plant (STP) | short-term (single instance) |
| Lemon Oil                    | 8008-56-8<br>84929-31-7 | PNEC      | 1.3 mg/kg       | aquatic organisms     | freshwater sediment          | short-term (single instance) |
| Lemon Oil                    | 8008-56-8<br>84929-31-7 | PNEC      | 0.13 mg/kg      | aquatic organisms     | marine sediment              | short-term (single instance) |
| Lemon Oil                    | 8008-56-8<br>84929-31-7 | PNEC      | 0.29 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) |

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| Relevant PNECs of components |           |           |                 |                       |                              |                              |
|------------------------------|-----------|-----------|-----------------|-----------------------|------------------------------|------------------------------|
| Name of substance            | CAS No    | End-point | Threshold level | Organism              | Environmental compartment    | Exposure time                |
| (R)-p-mentha-1,8-diene       | 5989-27-5 | PNEC      | 0.763 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) |
| 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) |

### 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.

- Type of material

PVA: polyvinyl alcohol, Nitrile

- Material thickness

>0.5 mm

- Breakthrough times of the glove material

>120 minutes (permeation: level 4)

- Other protection measures

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

Environmental exposure controls



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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 | ≥146 °C at 101.3 kPa                          |
| Flash point                             | 81 °C                                         |
| Evaporation rate                        | Not determined                                |
| Flammability (solid, gas)               | not relevant, (fluid)                         |
| Explosive limits                        | not determined                                |
| Vapor pressure                          | ≤3.7 kPa at 37.8 °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   | 276 °C (auto-ignition temperature (liquids and gases)) |
| Viscosity                   | not determined                                         |
| Explosive properties        | none                                                   |



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|                      |      |
|----------------------|------|
| Oxidizing properties | none |
|----------------------|------|

### 9.2 Other information

|                                          |                                                                       |
|------------------------------------------|-----------------------------------------------------------------------|
| Temperature class (USA, acc. to NEC 500) | T2B (maximum permissible surface temperature on the equipment: 260°C) |
|------------------------------------------|-----------------------------------------------------------------------|

## 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.

### 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

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



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### Acute toxicity estimate (ATE) of components

| Name of substance            | CAS No     | Exposure route        | ATE            |
|------------------------------|------------|-----------------------|----------------|
| 3,5,5-trimethylhexyl acetate | 58430-94-7 | oral                  | 4,250 mg/kg    |
| Decamethylcyclopentasiloxane | 541-02-6   | dermal                | >2,000 mg/kg   |
| Decamethylcyclopentasiloxane | 541-02-6   | inhalation: dust/mist | 8.67 mg/l/4h   |
| Florosol                     | 63500-71-0 | oral                  | >2,000 mg/kg   |
| Florosol                     | 63500-71-0 | dermal                | >2,000 mg/kg   |
| Linalool                     | 78-70-6    | oral                  | 2,790 mg/kg    |
| Acetyl cedrene               | 32388-55-9 | oral                  | 4,500 mg/kg    |
| benzyl alcohol               | 100-51-6   | oral                  | 1,580 mg/kg    |
| benzyl alcohol               | 100-51-6   | inhalation: vapor     | 11 mg/l/4h     |
| benzyl alcohol               | 100-51-6   | inhalation: dust/mist | >4.178 mg/l/4h |
| (R)-p-mentha-1,8-diene       | 5989-27-5  | oral                  | >2,000 mg/kg   |
| Coumarin                     | 91-64-5    | oral                  | 293 mg/kg      |
| Coumarin                     | 91-64-5    | dermal                | 293 mg/kg      |

### Skin corrosion/irritation

Causes skin irritation.

### Serious eye damage/eye irritation

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

### Respiratory or skin sensitization

May cause an allergic skin reaction.

### Germ cell mutagenicity

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

### Carcinogenicity

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

### 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

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



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Specific target organ toxicity - single exposure  
Based on available data, the classification criteria are not met.

Specific target organ toxicity - repeated exposure  
Based on available data, the classification criteria are not met.

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

### SECTION 12: Ecological information

#### 12.1 Toxicity

Very 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 |
|---------------------------------------------|------------|----------|-------------|-------------------------------------|---------------|
| 3,5,5-trimethylhexyl acetate                | 58430-94-7 | LC50     | 7.7 mg/l    | fish                                | 96 h          |
| 3,5,5-trimethylhexyl acetate                | 58430-94-7 | EC50     | >5.4 mg/l   | aquatic invertebrates               | 24 h          |
| 3,5,5-trimethylhexyl acetate                | 58430-94-7 | ErC50    | >3.8 mg/l   | algae                               | 72 h          |
| 3,5,5-trimethylhexyl acetate                | 58430-94-7 | NOEC     | 4 mg/l      | fish                                | 96 h          |
| Decamethylcyclopentasiloxane                | 541-02-6   | LC50     | >16 µg/l    | fish                                | 96 h          |
| Decamethylcyclopentasiloxane                | 541-02-6   | EC50     | >2.9 µg/l   | aquatic invertebrates               | 48 h          |
| Decamethylcyclopentasiloxane                | 541-02-6   | NOEC     | ≥16 µg/l    | fish                                | 96 h          |
| Mayol                                       | 5502-75-0  | LC50     | 7.5 mg/l    | fish                                | 24 h          |
| Mayol                                       | 5502-75-0  | EC50     | 13 mg/l     | aquatic invertebrates               | 48 h          |
| Mayol                                       | 5502-75-0  | ErC50    | 10 mg/l     | algae                               | 72 h          |
| Mayol                                       | 5502-75-0  | NOEC     | 3.2 mg/l    | fish                                | 96 h          |
| Mayol                                       | 5502-75-0  | LOEC     | 5.6 mg/l    | fish                                | 96 h          |
| Florosol                                    | 63500-71-0 | EC50     | 320 mg/l    | aquatic invertebrates               | 48 h          |
| Florosol                                    | 63500-71-0 | ErC50    | >100 mg/l   | algae                               | 72 h          |
| Florosol                                    | 63500-71-0 | NOEC     | ≥320 mg/l   | aquatic invertebrates               | 48 h          |
| Distillates (petroleum), hydrotreated light | 64742-47-8 | LC50     | >1,000 mg/l | rainbow trout (Oncorhynchus mykiss) | 96 h          |
| Distillates (petroleum), hydrotreated light | 64742-47-8 | LC50     | >1,000 mg/l | goldfish (Carassius auratus)        | 72 h          |



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

| Name of substance                           | CAS No     | Endpoint | Value       | Species               | Exposure time |
|---------------------------------------------|------------|----------|-------------|-----------------------|---------------|
| Distillates (petroleum), hydrotreated light | 64742-47-8 | EC50     | >1,000 mg/l | water flea (Daphnia)  | 48 h          |
| Distillates (petroleum), hydrotreated light | 64742-47-8 | EC50     | >1,000 mg/l | algae                 | 72 h          |
| Distillates (petroleum), hydrotreated light | 64742-47-8 | LL50     | 5 mg/l      | fish                  | 96 h          |
| Distillates (petroleum), hydrotreated light | 64742-47-8 | EL50     | 1.4 mg/l    | aquatic invertebrates | 48 h          |
| Distillates (petroleum), hydrotreated light | 64742-47-8 | LOEL     | 1 mg/l      | algae                 | 72 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          |
| 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          |
| 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          |
| 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          |
| 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          |
| benzyl alcohol                              | 100-51-6   | LC50     | 770 mg/l    | fish                  | 24 h          |
| benzyl alcohol                              | 100-51-6   | EC50     | 230 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 |
|------------------------|-------------------------|----------|------------|-----------------------|---------------|
| benzyl alcohol         | 100-51-6                | ErC50    | 770 mg/l   | algae                 | 72 h          |
| benzyl alcohol         | 100-51-6                | NOEC     | 310 mg/l   | algae                 | 72 h          |
| Linalyl acetate        | 115-95-7                | ErC50    | 62 mg/l    | algae                 | 72 h          |
| Linalyl acetate        | 115-95-7                | LC50     | 11 mg/l    | fish                  | 96 h          |
| Linalyl acetate        | 115-95-7                | EC50     | 59 mg/l    | aquatic invertebrates | 48 h          |
| Linalyl acetate        | 115-95-7                | NOEC     | 25 mg/l    | aquatic invertebrates | 48 h          |
| Lemon Oil              | 8008-56-8<br>84929-31-7 | LL50     | 5.65 mg/l  | fish                  | 96 h          |
| Lemon Oil              | 8008-56-8<br>84929-31-7 | EL50     | 1.4 mg/l   | aquatic invertebrates | 24 h          |
| Lemon Oil              | 8008-56-8<br>84929-31-7 | NOELR    | 4 mg/l     | fish                  | 96 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          |
| 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          |

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

| Name of substance            | CAS No     | Endpoint | Value     | Species               | Exposure time |
|------------------------------|------------|----------|-----------|-----------------------|---------------|
| 3,5,5-trimethylhexyl acetate | 58430-94-7 | EC50     | >5.4 mg/l | aquatic invertebrates | 24 h          |
| 3,5,5-trimethylhexyl acetate | 58430-94-7 | NOEC     | 100 mg/l  | microorganisms        | 32 d          |
| Decamethylcyclopentasiloxane | 541-02-6   | LC50     | >16 µg/l  | fish                  | 14 d          |
| Decamethylcyclopentasiloxane | 541-02-6   | EC50     | >15 µg/l  | aquatic invertebrates | 21 d          |
| Decamethylcyclopentasiloxane | 541-02-6   | NOEC     | 16 µg/l   | fish                  | 14 d          |
| Decamethylcyclopentasiloxane | 541-02-6   | LOEC     | >14 µg/l  | fish                  | 90 d          |

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| Aquatic toxicity (chronic) of components of the mixture |            |          |             |                       |               |
|---------------------------------------------------------|------------|----------|-------------|-----------------------|---------------|
| Name of substance                                       | CAS No     | Endpoint | Value       | Species               | Exposure time |
| Mayol                                                   | 5502-75-0  | LC50     | 7.5 mg/l    | fish                  | 3 h           |
| Mayol                                                   | 5502-75-0  | EC50     | 190 mg/l    | microorganisms        | 3 h           |
| Mayol                                                   | 5502-75-0  | NOEC     | 0.426 mg/l  | fish                  | 33 d          |
| Florosol                                                | 63500-71-0 | EC50     | >1,000 mg/l | microorganisms        | 3 h           |
| Florosol                                                | 63500-71-0 | NOEC     | 1,000 mg/l  | microorganisms        | 3 h           |
| Distillates (petroleum), hydrotreated light             | 64742-47-8 | EL50     | 0.89 mg/l   | aquatic invertebrates | 21 d          |
| Distillates (petroleum), hydrotreated light             | 64742-47-8 | LOEL     | 1.2 mg/l    | aquatic invertebrates | 21 d          |
| Menthyl acetate                                         | 89-48-5    | NOEC     | 2.6 mg/l    | microorganisms        | 14 d          |
| Linalool                                                | 78-70-6    | LC50     | 27.8 mg/l   | fish                  | 24 h          |
| Linalool                                                | 78-70-6    | EC50     | >100 mg/l   | microorganisms        | 30 min        |
| 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           |
| 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          |
| benzyl alcohol                                          | 100-51-6   | LC50     | 770 mg/l    | fish                  | 1 h           |
| benzyl alcohol                                          | 100-51-6   | EC50     | 66 mg/l     | aquatic invertebrates | 21 d          |
| benzyl alcohol                                          | 100-51-6   | NOEC     | 48.9 mg/l   | fish                  | 30 d          |
| Linalyl acetate                                         | 115-95-7   | LC50     | 11.14 mg/l  | fish                  | 20 h          |
| Linalyl acetate                                         | 115-95-7   | NOEC     | >25.7 mg/l  | microorganisms        | 28 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           |
| (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           |
| Coumarin                                                | 91-64-5    | NOEC     | 0.191 mg/l  | fish                  | 30 d          |

### 12.2 Persistence and degradability

Data are not available.

### 12.3 Bioaccumulative potential

Data are not available.

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### 12.4 Mobility in soil

Data are not available.

### 12.5 Results of PBT and vPvB assessment

Contains a PBT-substance at a concentration of  $\geq 0.1\%$ . Contains a 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.

## 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) | 3,5,5-trimethylhexyl acetate, Decamethylcyclopentasiloxane |

### 14.3 Transport hazard class(es)

|           |   |
|-----------|---|
| DOT       | 9 |
| IMDG-Code | 9 |

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|                                                            |                                                            |
|------------------------------------------------------------|------------------------------------------------------------|
| ICAO-TI                                                    | 9                                                          |
| <b>14.4 Packing group</b>                                  |                                                            |
| DOT                                                        | III                                                        |
| IMDG-Code                                                  | III                                                        |
| ICAO-TI                                                    | III                                                        |
| <b>14.5 Environmental hazards</b>                          | hazardous to the aquatic environment                       |
| Environmentally hazardous substance (aquatic environment)  | 3,5,5-trimethylhexyl acetate, Decamethylcyclopentasiloxane |
| <b>14.6 Special precautions for user</b>                   |                                                            |
| There is no additional information.                        |                                                            |
| <b>14.7 Transport in bulk according to IMO instruments</b> |                                                            |
| 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: 3,5,5-trimethylhexyl acetate, Decamethylcyclopentasiloxane), 9, III |
| Danger label(s)                                                                                                                                                         | 9, fish and tree                                                                                                                            |
|   |                                                                                                                                             |
| Environmental hazards                                                                                                                                                   | yes (hazardous to the aquatic environment)                                                                                                  |
| Special provisions (SP)                                                                                                                                                 | 8, 146, 173, 335, 441, 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: 3,5,5-trimethylhexyl acetate, Decamethylcyclopentasiloxane), 9, III |
| Marine pollutant                         | yes (hazardous to the aquatic environment) (3,5,5-trimethylhexyl acetate)                                                                   |
| Danger label(s)                          | 9, fish and tree                                                                                                                            |

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|                          |                    |
|--------------------------|--------------------|
| Special provisions (SP)  | 274, 335, 375, 969 |
| Excepted quantities (EQ) | E1                 |
| Limited quantities (LQ)  | 5 L                |
| EmS                      | F-A, S-F           |
| Stowage category         | A                  |

### International Civil Aviation Organization (ICAO-IATA/DGR) - Additional information

|                                          |                                                                                                                                             |
|------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| Particulars in the shipper's declaration | UN3082, Environmentally hazardous substance, liquid, n.o.s., (contains: 3,5,5-trimethylhexyl acetate, Decamethylcyclopentasiloxane), 9, III |
| Environmental hazards                    | yes (hazardous to the aquatic environment)                                                                                                  |
| Danger label(s)                          | 9, fish and tree                                                                                                                            |



|                          |                       |
|--------------------------|-----------------------|
| Special provisions (SP)  | A97, A158, A197, A215 |
| 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 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

#### Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA)

- List of Hazardous Substances and Reportable Quantities (CERCLA section 102a) (40 CFR 302.4)

none of the ingredients are listed

#### Clean Air Act

none of the ingredients are listed

#### Right to Know Hazardous Substance List



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

| Name of substance                                                                                | CAS No                     | Functionality | Authoritative Lists                                   |
|--------------------------------------------------------------------------------------------------|----------------------------|---------------|-------------------------------------------------------|
| 3,5,5-trimethylhexyl acetate                                                                     | 58430-94-7                 | fragrance     |                                                       |
| Decamethylcyclopentasiloxane                                                                     | 541-02-6                   | emulsifier    | Canada PBITs<br>CECBP - Priority Chemicals<br>EC PBTs |
| 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetra-methyl-2-naphthyl)ethan-1-one                         | 54464-57-2                 |               | EU Fragrance Allergens                                |
| Spiro(1,3-dioxolane-2,8'(5'H)-(2H-2,4a)meth-anonaphthalene), hexahydro-1',1',5',5'-tetra-methyl- | 154171-76-3<br>154171-77-4 | fragrance     |                                                       |
| Florosol                                                                                         | 63500-71-0                 | fragrance     |                                                       |
| Distillates (petroleum), hydrotreated light                                                      | 64742-47-8                 | solvents      |                                                       |
| cis-4-(isopropyl)cyclohexanemethanol                                                             | 13828-37-0                 | fragrance     |                                                       |
| Benzyl acetate                                                                                   | 140-11-4                   | fragrance     |                                                       |
| Menthyl acetate                                                                                  | 89-48-5                    | fragrance     |                                                       |
| C11-13 Synthetic Isoparaffin                                                                     | 90622-58-5                 | fragrance     |                                                       |
| Linalool                                                                                         | 78-70-6                    | fragrance     | EU Fragrance Allergens                                |
| 3,7-dimethylnona-1,6-dien-3-ol                                                                   | 10339-55-6                 | fragrance     |                                                       |
| Acetyl cedrene                                                                                   | 32388-55-9                 |               | EU Fragrance Allergens                                |
| benzyl alcohol                                                                                   | 100-51-6                   | fragrance     | EU Fragrance Allergens                                |
| Linalyl acetate                                                                                  | 115-95-7                   |               | EU Fragrance Allergens                                |
| alpha-cedrene                                                                                    | 469-61-4                   | fragrance     |                                                       |
| Lemon Oil                                                                                        | 84929-31-7                 |               | EU Fragrance Allergens                                |
| Vanillin                                                                                         | 121-33-5                   |               | EU Fragrance Allergens                                |
| (R)-p-mentha-1,8-diene                                                                           | 5989-27-5                  | fragrance     | EU Fragrance Allergens                                |
| Beta-cedrene                                                                                     | 546-28-1                   | fragrance     |                                                       |
| Coumarin                                                                                         | 91-64-5                    | fragrance     | EU Fragrance Allergens                                |
| Caryophyllene                                                                                    | 87-44-5                    |               | EU Fragrance Allergens                                |
| Orange Oil Valencia                                                                              | 8028-48-6                  |               | EU Fragrance Allergens                                |
| Orange Oil Valencia                                                                              | 8028-48-6                  |               | EU Fragrance Allergens                                |
| citral                                                                                           | 5392-40-5                  | fragrance     | EU Fragrance Allergens                                |

### - Toxic or Hazardous Substance List (MA-TURA)

none of the ingredients are listed





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### - 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

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

#### NPCA-HMIS® III

Hazardous Materials Identification System. American Coatings Association.

| Category            | Rating | Description                                                                                                                                                |
|---------------------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Chronic             | /      | none                                                                                                                                                       |
| 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       | not all ingredients are listed |



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| Country | Inventory  | Status                              |
|---------|------------|-------------------------------------|
| CA      | NDSL       | not all ingredients are listed      |
| CN      | IECSC      | not all ingredients are listed      |
| EU      | ECSI       | not all ingredients are listed      |
| EU      | REACH Reg. | not all ingredients are listed      |
| JP      | CSCL-ENCS  | not all ingredients are listed      |
| JP      | ISHA-ENCS  | not all ingredients are listed      |
| KR      | KECI       | not all ingredients are listed      |
| MX      | INSQ       | not all ingredients are listed      |
| NZ      | NZIoC      | not all ingredients are listed      |
| PH      | PICCS      | not all ingredients are listed      |
| TR      | CICR       | not all ingredients are listed      |
| TW      | TCSI       | all ingredients are listed          |
| US      | TSCA       | all ingredients are listed (ACTIVE) |

### 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                                      |
| 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.

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### 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 |
|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| 2.1     |                                                                                                                                                                                                                                               | Classification acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200):<br>change in the listing (table)                                                                                                                                                         | yes             |
| 2.2     |                                                                                                                                                                                                                                               | - Hazard statements:<br>change in the listing (table)                                                                                                                                                                                                                    | yes             |
| 2.2     |                                                                                                                                                                                                                                               | - Precautionary statements:<br>change in the listing (table)                                                                                                                                                                                                             | yes             |
| 2.2     | - Hazardous ingredients for labelling:<br>1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one, Lyrall, Mayol, (R)-p-mentha-1,8-diene, Acetyl cedrene, Linalool, Coumarin, 3,7-dimethylnona-1,6-dien-3-ol, Linalyl acetate | - Hazardous ingredients for labelling:<br>1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one, Lyrall, Mayol, Lemon Oil, Acetyl cedrene, Linalool, (R)-p-mentha-1,8-diene, benzyl alcohol, Coumarin, 3,7-dimethylnona-1,6-dien-3-ol, Linalyl acetate | yes             |
| 2.3     |                                                                                                                                                                                                                                               | Hazards not otherwise classified:<br>change in the listing (table)                                                                                                                                                                                                       | yes             |
| 2.3     | Results of PBT and vPvB assessment:<br>Contains a PBT-substance in a concentration of $\geq 0.1\%$ . Contains a vPvB-substance in a concentration of $\geq 0.1\%$ .                                                                           | Results of PBT and vPvB assessment:<br>Contains a PBT-substance at a concentration of $\geq 0.1\%$ . Contains a vPvB-substance at a concentration of $\geq 0.1\%$ .                                                                                                      | yes             |
| 3.2     |                                                                                                                                                                                                                                               | Description of the mixture:<br>change in the listing (table)                                                                                                                                                                                                             | yes             |
| 3.2     |                                                                                                                                                                                                                                               | Remarks:<br>For full text of abbreviations: see SECTION 16                                                                                                                                                                                                               | yes             |
| 8.1     |                                                                                                                                                                                                                                               | Occupational exposure limit values (Workplace Exposure Limits):<br>change in the listing (table)                                                                                                                                                                         | yes             |
| 8.1     |                                                                                                                                                                                                                                               | Relevant DNELs of components:<br>change in the listing (table)                                                                                                                                                                                                           | yes             |
| 8.1     |                                                                                                                                                                                                                                               | Relevant PNECs of components:<br>change in the listing (table)                                                                                                                                                                                                           | yes             |
| 8.2     | Respiratory protection:<br>In case of inadequate ventilation wear respiratory protection.                                                                                                                                                     |                                                                                                                                                                                                                                                                          | yes             |
| 9.1     |                                                                                                                                                                                                                                               | Explosive limits:<br>not determined                                                                                                                                                                                                                                      | yes             |
| 9.1     | Explosive properties:<br>explosive                                                                                                                                                                                                            | Explosive properties:<br>none                                                                                                                                                                                                                                            | yes             |
| 10.1    | If exposed to air:<br>Danger of explosion.                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                          | yes             |
| 11.1    | Acute toxicity:                                                                                                                                                                                                                               | Acute toxicity:                                                                                                                                                                                                                                                          | yes             |



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| Section | Former entry (text/value)                                                                                                                                           | Actual entry (text/value)                                                                                                                                           | Safety-relevant |
|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
|         | Shall not be classified as acutely toxic.                                                                                                                           | Based on available data, the classification criteria are not met.                                                                                                   |                 |
| 11.1    |                                                                                                                                                                     | Acute toxicity estimate (ATE) of components: change in the listing (table)                                                                                          | yes             |
| 11.1    | Serious eye damage/eye irritation:<br>Causes serious eye irritation.                                                                                                | Serious eye damage/eye irritation:<br>Based on available data, the classification criteria are not met.                                                             | yes             |
| 11.1    | Germ cell mutagenicity:<br>Shall not be classified as germ cell mutagenic.                                                                                          | Germ cell mutagenicity:<br>Based on available data, the classification criteria are not met.                                                                        | yes             |
| 11.1    | Carcinogenicity:<br>Shall not be classified as carcinogenic.                                                                                                        | Carcinogenicity:<br>Based on available data, the classification criteria are not met.                                                                               | yes             |
| 11.1    | Reproductive toxicity:<br>Shall not be classified as a reproductive toxicant.                                                                                       | Reproductive toxicity:<br>Based on available data, the classification criteria are not met.                                                                         | yes             |
| 11.1    | Specific target organ toxicity - single exposure:<br>Shall not be classified as a specific target organ toxicant (single exposure).                                 | Specific target organ toxicity - single exposure:<br>Based on available data, the classification criteria are not met.                                              | yes             |
| 11.1    | Specific target organ toxicity - repeated exposure:<br>Shall not be classified as a specific target organ toxicant (repeated exposure).                             | Specific target organ toxicity - repeated exposure:<br>Based on available data, the classification criteria are not met.                                            | yes             |
| 11.1    | Aspiration hazard:<br>Shall not be classified as presenting an aspiration hazard.                                                                                   | Aspiration hazard:<br>Based on available data, the classification criteria are not met.                                                                             | yes             |
| 12.1    |                                                                                                                                                                     | Aquatic toxicity (acute) of components of the mixture:<br>change in the listing (table)                                                                             | yes             |
| 12.1    |                                                                                                                                                                     | Aquatic toxicity (chronic) of components of the mixture:<br>change in the listing (table)                                                                           | yes             |
| 12.5    | Results of PBT and vPvB assessment:<br>Contains a PBT-substance in a concentration of $\geq 0.1\%$ . Contains a vPvB-substance in a concentration of $\geq 0.1\%$ . | Results of PBT and vPvB assessment:<br>Contains a PBT-substance at a concentration of $\geq 0.1\%$ . Contains a vPvB-substance at a concentration of $\geq 0.1\%$ . | yes             |
| 14.7    | Special provisions (SP):<br>274, 335, 969                                                                                                                           | Special provisions (SP):<br>274, 335, 375, 969                                                                                                                      | yes             |
| 15.1    | Toxic Substance Control Act (TSCA):<br>not all ingredients are listed (ACTIVE)                                                                                      | Toxic Substance Control Act (TSCA):<br>all ingredients are listed or exempt from listing                                                                            | yes             |
| 15.1    |                                                                                                                                                                     | Cleaning Product Right to Know Act Substance List (CA-RTK):<br>change in the listing (table)                                                                        | yes             |
| 15.1    | Hazardous Substance List (RI-RTK):<br>none of the ingredients are listed                                                                                            |                                                                                                                                                                     | yes             |



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| Section | Former entry (text/value)                                                                                                                                                | Actual entry (text/value)                           | Safety-relevant |
|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|-----------------|
| 15.1    | Drug precursors, Chemicals designated within the Controlled Substances Act, 21 U.S.C. § 802, paragraphs 34 (list I) and 35 (list II): none of the ingredients are listed |                                                     | yes             |
| 15.1    | New Zealand HSNO Approval Number: HSR002576 Food Additives and Fragrance Materials (Flammable) Group Standard 2020                                                       |                                                     | yes             |
| 15.1    |                                                                                                                                                                          | NPCA-HMIS® III: change in the listing (table)       | yes             |
| 15.1    |                                                                                                                                                                          | National inventories: change in the listing (table) | yes             |

### 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.