



Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

Armor All Essential Blends Car Air Freshener Vanilla Lavender Vent Clip

Version number: GHS 6.3
Replaces version of: 2020-10-22 (GHS 5)

Revision: 2023-09-11

SECTION 1: Identification

1.1 Product identifier

Trade name **Armor All Essential Blends Car Air Freshener
Vanilla Lavender Vent Clip**
Alternative number(s) 070612185563, 070612191106

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

Relevant identified uses General use

1.3 Details of the supplier of the safety data sheet

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

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

1.4 Emergency telephone number

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

SECTION 2: Hazard(s) identification

2.1 Classification of the substance or mixture

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

| Section | Hazard class | Category | Hazard class and category | Hazard statement |
|---------|---|----------|---------------------------|------------------|
| A.2 | skin corrosion/irritation | 2 | Skin Irrit. 2 | H315 |
| A.3 | serious eye damage/eye irritation | 2 | Eye Irrit. 2 | H319 |
| A.4S | skin sensitization | 1 | Skin Sens. 1 | H317 |
| A.7 | reproductive toxicity | 1B | Repr. 1B | H360 |
| A.8D | specific target organ toxicity - single exposure (narcotic effects, drowsiness) | 3 | STOT SE 3 | H336 |
| A.9 | specific target organ toxicity - repeated exposure | 2 | STOT RE 2 | H373 |
| A.10 | aspiration hazard | 1 | Asp. Tox. 1 | H304 |

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| Section | Hazard class | Category | Hazard class and category | Hazard statement |
|---------|------------------|----------|---------------------------|------------------|
| B.6 | flammable liquid | 3 | Flam. Liq. 3 | H226 |

For full text of abbreviations: see SECTION 16.

The most important adverse physicochemical, human health and environmental effects

Delayed or immediate effects can be expected after short or long-term exposure. The product is combustible and can be ignited by potential ignition sources.

2.2 Label elements

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

- Signal word danger

- Pictograms

GHS02, GHS07, GHS08



- Hazard statements

H226 Flammable liquid and vapor.
H304 May be fatal if swallowed and enters airways.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.
H360 May damage fertility or the unborn child.
H373 May cause damage to organs (nervous system) through prolonged or repeated exposure.

- Precautionary statements

P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P202 Do not handle until all safety precautions have been read and understood.
P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P240 Ground/bond container and receiving equipment.
P241 Use explosion-proof electrical/ventilating/lighting equipment.
P242 Use only non-sparking tools.
P243 Take precautionary measures against static discharge.
P260 Do not breathe dust/fume/gas/mist/vapors/spray.
P271 Use only outdoors or in a well-ventilated area.
P272 Contaminated work clothing must not be allowed out of the workplace.
P280 Wear protective gloves/eye protection/face protection.
P301+P310 If swallowed: Immediately call a poison center/doctor.
P302+P352 If on skin: Wash with plenty of water.
P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340 If inhaled: Remove person to fresh air and keep comfortable for breathing.



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- Precautionary statements

| | |
|----------------|--|
| P305+P351+P338 | If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P312 | Call a poison center/doctor if you feel unwell. |
| P321 | Specific treatment (see on this label). |
| P331 | Do NOT induce vomiting. |
| 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+P233 | Store in a well-ventilated place. Keep container tightly closed. |
| P403+P235 | Store in a well-ventilated place. Keep cool. |
| P405 | Store locked up. |
| P501 | Dispose of contents/container in accordance with local/regional/national/international regulations. |

- Hazardous ingredients for labelling

Hexyl cinnamaldehyde, Distillates (petroleum), hydrotreated light, Linal, Linalyl acetate, Dorisyl, Linalool, Hexyl salicylate, (R)-p-mentha-1,8-diene, Cineole, 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one, Nopyl acetate

2.3 Other hazards

Hazards not otherwise classified

May be harmful if inhaled (GHS category 5: acutely toxic - inhalation).
Very toxic to aquatic life with long lasting effects (GHS category 1: aquatic toxicity - acute and/or chronic).
Toxic to aquatic life with long lasting effects (GHS category 2: aquatic toxicity - acute and/or chronic).

Results of PBT and vPvB assessment

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

Endocrine disrupting properties

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

SECTION 3: Composition/information on ingredients

3.1 Substances

Not relevant (mixture)

3.2 Mixtures

Description of the mixture

| Name of substance | Identifier | Wt% | Classification acc. to GHS | Pictograms |
|---|----------------------|-----------|--|------------|
| Distillates (petroleum), hydrotreated light | CAS No 64742-47-8 | 10 - < 25 | Acute Tox. 3 / H331 STOT SE 3 / H336 STOT RE 2 / H373 Asp. Tox. 1 / H304 Flam. Liq. 3 / H226 | |



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| Name of substance | Identifier | Wt% | Classification acc. to GHS | Pictograms |
|---|-----------------------------------|-----------|---|------------|
| Linalyl acetate | CAS No 115-95-7 | 10 – < 25 | Skin Irrit. 2 / H315 Eye Irrit. 2 / H319 Skin Sens. 1B / H317 Flam. Liq. 4 / H227 | |
| Nopyl acetate | CAS No 128-51-8 | 5 – < 10 | Eye Irrit. 2 / H319 Skin Sens. 1B / H317 | |
| Dorisyli | CAS No 32210-23-4 | 5 – < 10 | Skin Sens. 1B / H317 | |
| Linalool | CAS No 78-70-6 | 5 – < 10 | Skin Irrit. 2 / H315 Eye Irrit. 2 / H319 Skin Sens. 1B / H317 Flam. Liq. 4 / H227 | |
| Dihydromyrcenol | CAS No 18479-58-8 | 1 – < 5 | Skin Irrit. 2 / H315 Eye Irrit. 2 / H319 STOT SE 3 / H336 Flam. Liq. 4 / H227 | |
| Isobornyl acetate | CAS No 125-12-2 | 1 – < 5 | Flam. Liq. 4 / H227 | |
| Hexyl cinnamaldehyde | CAS No 165184-98-5 101-86-0 | 1 – < 5 | Acute Tox. 4 / H332 Skin Sens. 1 / H317 | |
| 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 | < 1 | Skin Irrit. 2 / H315 Skin Sens. 1 / H317 | |
| Lilial | CAS No 80-54-6 | < 1 | Acute Tox. 4 / H302 Skin Irrit. 2 / H315 Skin Sens. 1B / H317 Repr. 1B / H360 Flam. Liq. 4 / H227 | |
| Hexyl salicylate | CAS No 6259-76-3 | < 1 | Skin Sens. 1B / H317 | |
| Cineole | CAS No 470-82-6 | < 1 | Skin Sens. 1B / H317 Flam. Liq. 3 / H226 | |
| (R)-p-mentha-1,8-diene | CAS No 5989-27-5 | < 1 | Skin Irrit. 2 / H315 Skin Sens. 1 / H317 Asp. Tox. 1 / H304 Flam. Liq. 3 / H226 | |

For full text of abbreviations: see SECTION 16.



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SECTION 4: First-aid measures

4.1 Description of first-aid measures

General notes

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

Following inhalation

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

Following skin contact

Wash with plenty of soap and water.

Following eye contact

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

Following ingestion

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

4.2 Most important symptoms and effects, both acute and delayed

Narcotic effects.

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

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 (CO₂)

5.3 Advice for firefighters

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



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SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Remove persons to safety.

For emergency responders

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

6.2 Environmental precautions

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

6.3 Methods and material for containment and cleaning up

Advice on how to contain a spill

Covering of drains

Advice on how to clean up a spill

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

Appropriate containment techniques

Use of adsorbent materials.

Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

6.4 Reference to other sections

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

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Recommendations

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

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

- Specific notes/details

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



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Advice on general occupational hygiene

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

7.2 Conditions for safe storage, including any incompatibilities

Managing of associated risks

- Explosive atmospheres

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

- Flammability hazards

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

- Ventilation requirements

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

- Packaging compatibilities

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

7.3 Specific end use(s)

See section 16 for a general overview.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

| Occupational exposure limit values (Workplace Exposure Limits) | | | | | | | | | | | |
|--|----------------|----------|------------|-----------|--------------------------|------------|---------------------------|-----------------|--------------------------------|----------|--------------|
| Country | Name of agent | CAS No | Identifier | TWA [ppm] | TWA [mg/m ³] | STEL [ppm] | STEL [mg/m ³] | Ceiling-C [ppm] | Ceiling-C [mg/m ³] | Notation | Source |
| US | benzyl acetate | 140-11-4 | PEL (CA) | 10 | 61 | | | | | | Cal/OSHA PEL |
| US | benzyl acetate | 140-11-4 | TLV® | 10 | | | | | | | AC-GIH® 2023 |

Notation

Ceiling-C
STEL

ceiling value is a limit value above which exposure should not occur
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 of the mixture

| Name of substance | CAS No | End-point | Threshold level | Protection goal, route of exposure | Used in | Exposure time |
|----------------------|-------------------------|-----------|--------------------------|------------------------------------|-------------------|----------------------------|
| Linalyl acetate | 115-95-7 | DNEL | 2.75 mg/m ³ | 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 ² | human, dermal | worker (industry) | chronic - local effects |
| Linalyl acetate | 115-95-7 | DNEL | 236.2 µg/cm ² | human, dermal | worker (industry) | acute - local effects |
| Linalool | 78-70-6 | DNEL | 16.5 mg/m ³ | 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 ³ | human, inhalatory | worker (industry) | chronic - systemic effects |
| Linalool | 78-70-6 | DNEL | 3.5 mg/kg bw/day | human, dermal | worker (industry) | chronic - systemic effects |
| Dihydromyrcenol | 18479-58-8 | DNEL | 24.7 mg/m ³ | human, inhalatory | worker (industry) | chronic - systemic effects |
| Dihydromyrcenol | 18479-58-8 | DNEL | 7 mg/kg bw/day | human, dermal | worker (industry) | chronic - systemic effects |
| Isobornyl acetate | 125-12-2 | DNEL | 13.22 mg/m ³ | human, inhalatory | worker (industry) | chronic - systemic effects |
| Isobornyl acetate | 125-12-2 | DNEL | 26.45 mg/m ³ | human, inhalatory | worker (industry) | acute - systemic effects |
| Isobornyl acetate | 125-12-2 | DNEL | 1.15 mg/kg bw/day | human, dermal | worker (industry) | chronic - systemic effects |
| Isobornyl acetate | 125-12-2 | DNEL | 0.3 mg/kg bw/day | human, dermal | worker (industry) | acute - systemic effects |
| Hexyl cinnamaldehyde | 165184-98-5 101-86-0 | DNEL | 0.078 mg/m ³ | human, inhalatory | worker (industry) | chronic - systemic effects |
| Hexyl cinnamaldehyde | 165184-98-5 101-86-0 | DNEL | 6.28 mg/m ³ | human, inhalatory | worker (industry) | acute - local effects |
| Hexyl cinnamaldehyde | 165184-98-5 101-86-0 | DNEL | 18.2 mg/kg bw/day | human, dermal | worker (industry) | chronic - systemic effects |
| Hexyl cinnamaldehyde | 165184-98-5 101-86-0 | DNEL | 525 µg/cm ² | human, dermal | worker (industry) | chronic - local effects |



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Relevant DNELs of components of the mixture

| Name of substance | CAS No | End-point | Threshold level | Protection goal, route of exposure | Used in | Exposure time |
|------------------------|-------------------------|-----------|------------------------|------------------------------------|-------------------|----------------------------|
| Hexyl cinnamaldehyde | 165184-98-5 101-86-0 | DNEL | 525 µg/cm ² | human, dermal | worker (industry) | acute - local effects |
| Lilial | 80-54-6 | DNEL | 0.44 mg/m ³ | human, inhalatory | worker (industry) | chronic - systemic effects |
| Lilial | 80-54-6 | DNEL | 1.79 mg/kg bw/day | human, dermal | worker (industry) | chronic - systemic effects |
| Lilial | 80-54-6 | DNEL | 410 µg/cm ² | human, dermal | worker (industry) | chronic - local effects |
| Lilial | 80-54-6 | DNEL | 410 µg/cm ² | human, dermal | worker (industry) | acute - local effects |
| Hexyl salicylate | 6259-76-3 | DNEL | 20,830 mg/kg | human, dermal | worker (industry) | acute - systemic effects |
| Hexyl salicylate | 6259-76-3 | DNEL | 7.29 mg/m ³ | human, inhalatory | worker (industry) | acute - systemic effects |
| Hexyl salicylate | 6259-76-3 | DNEL | 1.7 mg/m ³ | human, inhalatory | worker (industry) | chronic - systemic effects |
| Hexyl salicylate | 6259-76-3 | DNEL | 6.4 mg/kg bw/day | human, dermal | worker (industry) | chronic - systemic effects |
| Hexyl salicylate | 6259-76-3 | DNEL | 885 µg/cm ² | human, dermal | worker (industry) | chronic - local effects |
| Hexyl salicylate | 6259-76-3 | DNEL | 885 µg/cm ² | human, dermal | worker (industry) | acute - local effects |
| Cineole | 470-82-6 | DNEL | 7.05 mg/m ³ | human, inhalatory | worker (industry) | chronic - systemic effects |
| Cineole | 470-82-6 | DNEL | 2 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 ³ | 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 |

Relevant PNECs of components of the mixture

| Name of substance | CAS No | End-point | Threshold level | Organism | Environmental compartment | Exposure time |
|-------------------|----------|-----------|-----------------|-------------------|---------------------------|----------------------|
| Linalyl acetate | 115-95-7 | PNEC | 0.11 mg/l | aquatic organisms | water | intermittent release |



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|-------------------|------------|-----------|-----------------|-----------------------|------------------------------|------------------------------|
| 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) |
| Dorisyl | 32210-23-4 | PNEC | 5.3 µg/l | aquatic organisms | freshwater | short-term (single instance) |
| Dorisyl | 32210-23-4 | PNEC | 0.53 µg/l | aquatic organisms | marine water | short-term (single instance) |
| Dorisyl | 32210-23-4 | PNEC | 12.2 mg/l | aquatic organisms | sewage treatment plant (STP) | short-term (single instance) |
| Dorisyl | 32210-23-4 | PNEC | 2.01 mg/kg | aquatic organisms | freshwater sediment | short-term (single instance) |
| Dorisyl | 32210-23-4 | PNEC | 0.21 mg/kg | aquatic organisms | marine sediment | short-term (single instance) |
| Dorisyl | 32210-23-4 | PNEC | 66.67 mg/kg | aquatic organisms | water | short-term (single instance) |
| Dorisyl | 32210-23-4 | PNEC | 0.42 mg/kg | terrestrial organisms | soil | short-term (single instance) |
| Dorisyl | 32210-23-4 | PNEC | 53 µg/l | aquatic organisms | water | intermittent release |
| 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) |



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| Name of substance | CAS No | End-point | Threshold level | Organism | Environmental compartment | Exposure time |
|-------------------|------------|-----------|-----------------|-----------------------|------------------------------|------------------------------|
| Linalool | 78-70-6 | PNEC | 10 mg/l | aquatic organisms | sewage treatment plant (STP) | short-term (single instance) |
| Linalool | 78-70-6 | PNEC | 2.22 mg/kg | aquatic organisms | freshwater sediment | short-term (single instance) |
| Linalool | 78-70-6 | PNEC | 0.222 mg/kg | aquatic organisms | marine sediment | short-term (single instance) |
| Linalool | 78-70-6 | PNEC | 0.327 mg/kg | terrestrial organisms | soil | short-term (single instance) |
| Dihydromyrcenol | 18479-58-8 | PNEC | 111 mg/kg | aquatic organisms | water | short-term (single instance) |
| Dihydromyrcenol | 18479-58-8 | PNEC | 0.278 mg/l | aquatic organisms | water | intermittent release |
| Dihydromyrcenol | 18479-58-8 | PNEC | 27.8 µg/l | aquatic organisms | freshwater | short-term (single instance) |
| Dihydromyrcenol | 18479-58-8 | PNEC | 2.78 µg/l | aquatic organisms | marine water | short-term (single instance) |
| Dihydromyrcenol | 18479-58-8 | PNEC | 10 mg/l | aquatic organisms | sewage treatment plant (STP) | short-term (single instance) |
| Dihydromyrcenol | 18479-58-8 | PNEC | 0.594 mg/kg | aquatic organisms | freshwater sediment | short-term (single instance) |
| Dihydromyrcenol | 18479-58-8 | PNEC | 0.059 mg/kg | aquatic organisms | marine sediment | short-term (single instance) |
| Dihydromyrcenol | 18479-58-8 | PNEC | 0.103 mg/kg | terrestrial organisms | soil | short-term (single instance) |
| Isobornyl acetate | 125-12-2 | PNEC | 10 µg/l | aquatic organisms | freshwater | short-term (single instance) |
| Isobornyl acetate | 125-12-2 | PNEC | 1 µg/l | aquatic organisms | marine water | short-term (single instance) |
| Isobornyl acetate | 125-12-2 | PNEC | 2 mg/l | aquatic organisms | sewage treatment plant (STP) | short-term (single instance) |
| Isobornyl acetate | 125-12-2 | PNEC | 460 µg/kg | aquatic organisms | freshwater sediment | short-term (single instance) |
| Isobornyl acetate | 125-12-2 | PNEC | 46 µg/kg | aquatic organisms | marine sediment | short-term (single instance) |
| Isobornyl acetate | 125-12-2 | PNEC | 86.1 µg/kg | terrestrial organisms | soil | short-term (single instance) |



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|----------------------|-------------------------|-----------|-----------------|-----------------------|------------------------------|------------------------------|
| Hexyl cinnamaldehyde | 165184-98-5 101-86-0 | PNEC | 0.001 mg/l | aquatic organisms | freshwater | short-term (single instance) |
| Hexyl cinnamaldehyde | 165184-98-5 101-86-0 | PNEC | 0 mg/l | aquatic organisms | marine water | short-term (single instance) |
| Hexyl cinnamaldehyde | 165184-98-5 101-86-0 | PNEC | 10 mg/l | aquatic organisms | sewage treatment plant (STP) | short-term (single instance) |
| Hexyl cinnamaldehyde | 165184-98-5 101-86-0 | PNEC | 3.2 mg/kg | aquatic organisms | freshwater sediment | short-term (single instance) |
| Hexyl cinnamaldehyde | 165184-98-5 101-86-0 | PNEC | 0.064 mg/kg | aquatic organisms | marine sediment | short-term (single instance) |
| Hexyl cinnamaldehyde | 165184-98-5 101-86-0 | PNEC | 0.398 mg/kg | terrestrial organisms | soil | short-term (single instance) |
| Lilial | 80-54-6 | PNEC | 0.024 mg/l | aquatic organisms | water | intermittent release |
| Lilial | 80-54-6 | PNEC | 0.004 mg/l | aquatic organisms | freshwater | short-term (single instance) |
| Lilial | 80-54-6 | PNEC | 0 mg/l | aquatic organisms | marine water | short-term (single instance) |
| Lilial | 80-54-6 | PNEC | 10 mg/l | aquatic organisms | sewage treatment plant (STP) | short-term (single instance) |
| Lilial | 80-54-6 | PNEC | 0.528 mg/kg | aquatic organisms | freshwater sediment | short-term (single instance) |
| Lilial | 80-54-6 | PNEC | 0.053 mg/kg | aquatic organisms | marine sediment | short-term (single instance) |
| Lilial | 80-54-6 | PNEC | 0.103 mg/kg | terrestrial organisms | soil | short-term (single instance) |
| Hexyl salicylate | 6259-76-3 | PNEC | 0.00357 mg/l | aquatic organisms | water | intermittent release |
| Hexyl salicylate | 6259-76-3 | PNEC | 0 mg/l | aquatic organisms | freshwater | short-term (single instance) |
| Hexyl salicylate | 6259-76-3 | PNEC | 0 mg/l | aquatic organisms | marine water | short-term (single instance) |
| Hexyl salicylate | 6259-76-3 | PNEC | 10 mg/l | aquatic organisms | sewage treatment plant (STP) | short-term (single instance) |
| Hexyl salicylate | 6259-76-3 | PNEC | 0.272 mg/kg | aquatic organisms | freshwater sediment | short-term (single instance) |



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| Relevant PNECs of components of the mixture | | | | | | |
|---|-----------|-----------|-----------------|-----------------------|------------------------------|------------------------------|
| Name of substance | CAS No | End-point | Threshold level | Organism | Environmental compartment | Exposure time |
| Hexyl salicylate | 6259-76-3 | PNEC | 0.027 mg/kg | aquatic organisms | marine sediment | short-term (single instance) |
| Hexyl salicylate | 6259-76-3 | PNEC | 0.054 mg/kg | terrestrial organisms | soil | short-term (single instance) |
| Cineole | 470-82-6 | PNEC | 0.57 mg/l | aquatic organisms | water | intermittent release |
| Cineole | 470-82-6 | PNEC | 57 µg/l | aquatic organisms | freshwater | short-term (single instance) |
| Cineole | 470-82-6 | PNEC | 5.7 µg/l | aquatic organisms | marine water | short-term (single instance) |
| Cineole | 470-82-6 | PNEC | 10 mg/l | aquatic organisms | sewage treatment plant (STP) | short-term (single instance) |
| Cineole | 470-82-6 | PNEC | 1.425 mg/kg | aquatic organisms | freshwater sediment | short-term (single instance) |
| Cineole | 470-82-6 | PNEC | 0.142 mg/kg | aquatic organisms | marine sediment | short-term (single instance) |
| Cineole | 470-82-6 | PNEC | 0.25 mg/kg | terrestrial organisms | soil | short-term (single instance) |
| (R)-p-mentha-1,8-diene | 5989-27-5 | PNEC | 14 µg/l | aquatic organisms | freshwater | short-term (single instance) |
| (R)-p-mentha-1,8-diene | 5989-27-5 | PNEC | 1.4 µg/l | aquatic organisms | marine water | short-term (single instance) |
| (R)-p-mentha-1,8-diene | 5989-27-5 | PNEC | 1.8 mg/l | aquatic organisms | sewage treatment plant (STP) | short-term (single instance) |
| (R)-p-mentha-1,8-diene | 5989-27-5 | PNEC | 3.85 mg/kg | aquatic organisms | freshwater sediment | short-term (single instance) |
| (R)-p-mentha-1,8-diene | 5989-27-5 | PNEC | 0.385 mg/kg | aquatic organisms | marine sediment | short-term (single instance) |
| (R)-p-mentha-1,8-diene | 5989-27-5 | PNEC | 0.763 mg/kg | terrestrial organisms | soil | short-term (single instance) |

8.2 Exposure controls

Appropriate engineering controls

General ventilation.



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Individual protection measures (personal protective equipment)

Eye/face protection

Wear eye/face protection.

Skin protection

- Hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Check leak-tightness/impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

- Other protection measures

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

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

Environmental exposure controls

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

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

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

Other safety parameters

| | |
|---|----------------------|
| pH (value) | not determined |
| Melting point/freezing point | not determined |
| Initial boiling point and boiling range | ≥146 °C at 101.3 kPa |
| Flash point | 29 °C at 101.3 kPa |
| Evaporation rate | Not determined |



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| | |
|---------------------------|---|
| Flammability (solid, gas) | not relevant, (fluid) |
| 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 | 220 °C (auto-ignition temperature (liquids and gases)) |
| Viscosity | not determined |
| Explosive properties | none |
| Oxidizing properties | none |

9.2 Other information

| | |
|--|---|
| Temperature class (USA, acc. to NEC 500) | T2D (maximum permissible surface temperature on the equipment: 215°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.



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Hints to prevent fire or explosion

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

10.5 Incompatible materials

Oxidizers

10.6 Hazardous decomposition products

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

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Test data are not available for the complete mixture.

Classification procedure

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

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

Acute toxicity

Shall not be classified as acutely toxic.

GHS of the United Nations, annex 4: May be harmful if inhaled.

Acute toxicity estimate (ATE) of components of the mixture

| Name of substance | CAS No | Exposure route | ATE |
|---|-------------------------|-----------------------|---------------|
| Distillates (petroleum), hydrotreated light | 64742-47-8 | inhalation: vapor | >5.28 mg/l/4h |
| Hexyl cinnamaldehyde | 165184-98-5 101-86-0 | inhalation: vapor | 11 mg/l/4h |
| Hexyl cinnamaldehyde | 165184-98-5 101-86-0 | inhalation: dust/mist | >2.12 mg/l/4h |
| Lilial | 80-54-6 | oral | 1,390 mg/kg |

Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/eye irritation

Causes serious eye irritation.

Respiratory or skin sensitization

May cause an allergic skin reaction.

Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.



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Carcinogenicity

Shall not be classified as carcinogenic.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans

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

Legend

3 Not classifiable as to carcinogenicity in humans

Reproductive toxicity

May damage the unborn child. May damage fertility.

Specific target organ toxicity - single exposure

May cause drowsiness or dizziness.

Specific target organ toxicity - repeated exposure

May cause damage to organs (nervous system) through prolonged or repeated exposure.

| Hazard category | Target organ | Exposure route |
|-----------------|----------------|----------------|
| 2 | nervous system | if exposed |

Aspiration hazard

May be fatal if swallowed and enters airways.

SECTION 12: Ecological information

12.1 Toxicity

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

Aquatic toxicity (acute) of components of the mixture

| Name of substance | CAS No | Endpoint | Value | Species | Exposure time |
|---|------------|----------|-------------|--|---------------|
| Distillates (petroleum), hydrotreated light | 64742-47-8 | LC50 | >1,000 mg/l | rainbow trout (<i>Oncorhynchus mykiss</i>) | 96 h |
| Distillates (petroleum), hydrotreated light | 64742-47-8 | LC50 | >1,000 mg/l | goldfish (<i>Carassius auratus</i>) | 72 h |
| Distillates (petroleum), hydrotreated light | 64742-47-8 | EC50 | >1,000 mg/l | water flea (<i>Daphnia</i>) | 48 h |
| Distillates (petroleum), hydrotreated light | 64742-47-8 | EC50 | >1,000 mg/l | algae | 72 h |



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Aquatic toxicity (acute) of components of the mixture

| Name of substance | CAS No | Endpoint | Value | Species | Exposure time |
|---|-------------------------|----------|------------|-----------------------|---------------|
| 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 |
| 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 |
| Dorisyl | 32210-23-4 | LC50 | 8.6 mg/l | fish | 96 h |
| Dorisyl | 32210-23-4 | EC50 | 5.3 mg/l | aquatic invertebrates | 48 h |
| Dorisyl | 32210-23-4 | ErC50 | 22 mg/l | algae | 72 h |
| Dorisyl | 32210-23-4 | NOEC | 6.8 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 |
| Dihydromyrcenol | 18479-58-8 | LC50 | 27.8 mg/l | fish | 96 h |
| Dihydromyrcenol | 18479-58-8 | EC50 | 38 mg/l | aquatic invertebrates | 48 h |
| Dihydromyrcenol | 18479-58-8 | ErC50 | 80 mg/l | algae | 72 h |
| Dihydromyrcenol | 18479-58-8 | NOEC | <3.5 mg/l | fish | 96 h |
| Dihydromyrcenol | 18479-58-8 | LOEC | 50 mg/l | algae | 72 h |
| Isobornyl acetate | 125-12-2 | LC50 | ≤18 mg/l | fish | 48 h |
| Isobornyl acetate | 125-12-2 | EC50 | 19.3 mg/l | aquatic invertebrates | 48 h |
| Isobornyl acetate | 125-12-2 | ErC50 | >16.6 mg/l | algae | 72 h |
| Hexyl cinnamaldehyde | 165184-98-5 101-86-0 | LC50 | 1.7 mg/l | fish | 96 h |



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Aquatic toxicity (acute) of components of the mixture

| Name of substance | CAS No | Endpoint | Value | Species | Exposure time |
|------------------------|-------------------------|----------|-------------|-----------------------|---------------|
| Hexyl cinnamaldehyde | 165184-98-5 101-86-0 | EC50 | <0.59 mg/l | aquatic invertebrates | 48 h |
| Hexyl cinnamaldehyde | 165184-98-5 101-86-0 | ErC50 | >0.065 mg/l | algae | 72 h |
| Hexyl cinnamaldehyde | 165184-98-5 101-86-0 | NOEC | 0.93 mg/l | fish | 96 h |
| Lilial | 80-54-6 | LC50 | 2.04 mg/l | fish | 96 h |
| Lilial | 80-54-6 | EC50 | 10.7 mg/l | aquatic invertebrates | 48 h |
| Lilial | 80-54-6 | ErC50 | 29.16 mg/l | algae | 72 h |
| Lilial | 80-54-6 | NOEC | 1.28 mg/l | fish | 96 h |
| Hexyl salicylate | 6259-76-3 | EC50 | 0.543 mg/l | aquatic invertebrates | 24 h |
| Hexyl salicylate | 6259-76-3 | ErC50 | 0.61 mg/l | algae | 72 h |
| Hexyl salicylate | 6259-76-3 | NOEC | 0.14 mg/l | aquatic invertebrates | 24 h |
| Hexyl salicylate | 6259-76-3 | LOEC | 0.31 mg/l | aquatic invertebrates | 24 h |
| Cineole | 470-82-6 | LC50 | 57 mg/l | fish | 96 h |
| Cineole | 470-82-6 | EC50 | >100 mg/l | aquatic invertebrates | 48 h |
| Cineole | 470-82-6 | ErC50 | >74 mg/l | algae | 72 h |
| Cineole | 470-82-6 | NOEC | 32 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 |

Aquatic toxicity (chronic) of components of the mixture

| Name of substance | CAS No | Endpoint | Value | Species | Exposure time |
|---|------------|----------|-----------|-----------------------|---------------|
| Distillates (petroleum), hydrotreated light | 64742-47-8 | EL50 | 0.89 mg/l | aquatic invertebrates | 21 d |



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| Aquatic toxicity (chronic) of components of the mixture | | | | | |
|---|-------------------------|----------|------------|-----------------------|---------------|
| Name of substance | CAS No | Endpoint | Value | Species | Exposure time |
| Distillates (petroleum), hydrotreated light | 64742-47-8 | LOEL | 1.2 mg/l | aquatic invertebrates | 21 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 |
| Dorisyyl | 32210-23-4 | EC50 | 302 mg/l | microorganisms | 3 h |
| Linalool | 78-70-6 | LC50 | 27.8 mg/l | fish | 24 h |
| Linalool | 78-70-6 | EC50 | >100 mg/l | microorganisms | 30 min |
| Dihydromyrcenol | 18479-58-8 | EC50 | 17 mg/l | aquatic invertebrates | 21 d |
| Dihydromyrcenol | 18479-58-8 | NOEC | 9.5 mg/l | aquatic invertebrates | 21 d |
| Isobornyl acetate | 125-12-2 | NOEC | 20 mg/l | microorganisms | 28 d |
| Hexyl cinnamaldehyde | 165184-98-5 101-86-0 | EC50 | >157 µg/l | aquatic invertebrates | 21 d |
| Hexyl cinnamaldehyde | 165184-98-5 101-86-0 | NOEC | 63 µg/l | aquatic invertebrates | 21 d |
| Hexyl cinnamaldehyde | 165184-98-5 101-86-0 | LOEC | 157 µg/l | aquatic invertebrates | 21 d |
| Lilial | 80-54-6 | NOEC | >200 µg/l | fish | 21 d |
| Cineole | 470-82-6 | EC50 | >100 mg/l | microorganisms | 3 h |
| (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 |

12.2 Persistence and degradability

Data are not available.

12.3 Bioaccumulative potential

Data are not available.

12.4 Mobility in soil

Data are not available.



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12.5 Results of PBT and vPvB assessment

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

12.6 Endocrine disrupting properties

Does not contain an endocrine disruptor (EDC) 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) | Nopyl acetate, Hexyl cinnamaldehyde |

14.3 Transport hazard class(es)

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

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| | |
|--|--------------------------------------|
| ICAO-TI | 9 |
| 14.4 Packing group | |
| DOT | III |
| IMDG-Code | III |
| ICAO-TI | III |
| 14.5 Environmental hazards | hazardous to the aquatic environment |
| Environmentally hazardous substance (aquatic environment) | Nopyl acetate, Hexyl cinnamaldehyde |
| 14.6 Special precautions for user | |
| There is no additional information. | |
| 14.7 Transport in bulk according to IMO instruments | |
| The cargo is not intended to be carried in bulk. | |

Information for each of the UN Model Regulations

Not regulated when carried in single or combination packaging containing a net quantity of 5L or less or 5 kg or less per the following:
 DOT: 171.4(2)
 ADR: SP 375
 IMDG: 2.10.2.7
 IATA: special provision A197, DOT

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

| | |
|---|--|
| Particulars in the shipper's declaration | UN3082, Environmentally hazardous substance, liquid, n.o.s., (contains: Nopyl acetate, Hexyl cinnamaldehyde), 9, III |
| Danger label(s) | 9, fish and tree |
|  | |
| Environmental hazards | YES (hazardous to the aquatic environment) |
| Special provisions (SP) | 8, 146, 173, 335, IB3, T4, TP1, TP29 |
| ERG No | 171 |

International Maritime Dangerous Goods Code (IMDG) - Additional information

| | |
|--|---|
| Particulars in the shipper's declaration | UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (contains: Nopyl acetate, Hexyl cinnamaldehyde), 9, III, 29°C c.c. |
| Marine pollutant | YES (hazardous to the aquatic environment) (Nopyl acetate) |
| Danger label(s) | 9, fish and tree |



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| | |
|--------------------------|---------------|
| Special provisions (SP) | 274, 335, 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: Nopyl acetate, Hexyl cinnamaldehyde), 9, III |
| Environmental hazards | yes (hazardous to the aquatic environment) |
| Danger label(s) | 9, fish and tree |



| | |
|--------------------------|-----------------|
| Special provisions (SP) | A97, A158, A197 |
| Excepted quantities (EQ) | E1 |
| Limited quantities (LQ) | 30 kg |

SECTION 15: Regulatory information

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

National regulations (United States)

Toxic Substance Control Act (TSCA) not all ingredients are listed (ACTIVE)

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



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Right to Know Hazardous Substance List

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

| Name of substance | CAS No | Functionality | Authoritative Lists |
|--|--------------------------|---------------|----------------------------|
| Distillates (petroleum), hydrotreated light | 64742-47-8 | solvents | |
| Linalyl acetate | 115-95-7 | fragrance | |
| Nopyl acetate | 128-51-8 | fragrance | |
| Dorisyl | 32210-23-4 | fragrance | |
| C11-13 Synthetic Isoparaffin | 90622-58-5 | fragrance | |
| Linalool | 78-70-6 | fragrance | EU Fragrance Allergens |
| Dihydromyrcenol | 18479-58-8 | fragrance | |
| Isobornyl acetate | 125-12-2 | fragrance | |
| Ethylene brassylate | 105-95-3 | fragrance | |
| Benzyl acetate | 140-11-4 | fragrance | |
| Terpineol, acetate | 8007-35-0 | fragrance | |
| Hexyl cinnamaldehyde | 101-86-0 | fragrance | EU Fragrance Allergens |
| 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetra-methyl-2-naphthyl)ethan-1-one | 54464-57-2 | fragrance | |
| Lilial | 80-54-6 | | EC Annex VI CMRs - Cat. 1B |
| Beta-ionone | 79-77-6 | fragrance | |
| Hexyl salicylate | 6259-76-3 | fragrance | |
| Tricyclodecanyl propionate | 68912-13-0 17511-60-3 | fragrance | |
| Cineole | 470-82-6 | fragrance | |
| (R)-p-mentha-1,8-diene | 5989-27-5 | fragrance | EU Fragrance Allergens |
| benzyl benzoate | 120-51-4 | fragrance | EU Fragrance Allergens |
| Methyl Ionone | 127-51-5 | fragrance | EU Fragrance Allergens |
| Eugenol | 97-53-0 | fragrance | EU Fragrance Allergens |
| Geraniol | 106-24-1 | 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

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

Industry or sector specific available guidance(s)

NPCA-HMIS® III

Hazardous Materials Identification System. American Coatings Association.

| Category | Rating | Description |
|---------------------|--------|--|
| Chronic | * | chronic (long-term) health effects may result from repeated overexposure |
| Health | 2 | temporary or minor injury may occur |
| Flammability | 3 | material that can be ignited under almost all ambient temperature conditions |
| 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 | 3 | material that can be ignited under almost all ambient temperature conditions |
| 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 | | |



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National inventories

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

Legend

| | |
|------------|---|
| AIIC | Australian Inventory of Industrial Chemicals |
| CICR | Chemical Inventory and Control Regulation |
| CSCL-ENCS | List of Existing and New Chemical Substances (CSCL-ENCS) |
| DSL | Domestic Substances List (DSL) |
| ECSI | EC Substance Inventory (EINECS, ELINCS, NLP) |
| IECSC | Inventory of Existing Chemical Substances Produced or Imported in China |
| INSQ | National Inventory of Chemical Substances |
| ISHA-ENCS | Inventory of Existing and New Chemical Substances (ISHA-ENCS) |
| KECI | Korea Existing Chemicals Inventory |
| NCI | National Chemical Inventory |
| 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): change in the listing (table) | yes |
| 2.2 | | - Hazard statements: change in the listing (table) | yes |
| 2.2 | | - Precautionary statements: change in the listing (table) | yes |
| 2.2 | - Hazardous ingredients for labelling: Distillates (petroleum), hydrotreated light, Dorisyl, Lilial, Nopyl acetate, Linalool, Hexyl salicylate, (R)-p-mentha-1,8-diene, Cineole, Hexyl cinnamaldehyde, Patchouli ethanone | - Hazardous ingredients for labelling: Hexyl cinnamaldehyde, Distillates (petroleum), hydrotreated light, Lilial, Linalyl acetate, Dorisyl, Linalool, Hexyl salicylate, (R)-p-mentha-1,8-diene, Cineole, 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one, Nopyl acetate | yes |
| 2.3 | | Hazards not otherwise classified: change in the listing (table) | yes |
| 2.3 | Results of PBT and vPvB assessment: This mixture does not contain any substances that are assessed to be a PBT or a vPvB. | Results of PBT and vPvB assessment: Does not contain a PBT-/vPvB-substance in a concentration of $\geq 0.1\%$. | yes |
| 2.3 | | Endocrine disrupting properties: Does not contain an endocrine disruptor (EDC) in a concentration of $\geq 0.1\%$. | yes |
| 3.2 | | Description of the mixture: change in the listing (table) | yes |
| 8.1 | | Occupational exposure limit values (Workplace Exposure Limits): change in the listing (table) | yes |
| 8.1 | | Relevant DNELs of components of the mixture: change in the listing (table) | yes |
| 8.1 | | Relevant PNECs of components of the mixture: change in the listing (table) | yes |
| 9.1 | Color: various | Color: not determined | yes |
| 9.1 | | Particle: not relevant (liquid) | yes |
| 9.1 | Explosive limits: not determined | | yes |



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| Section | Former entry (text/value) | Actual entry (text/value) | Safety-relevant |
|---------|--|---|-----------------|
| 11.1 | | Acute toxicity estimate (ATE) of components of the mixture: change in the listing (table) | yes |
| 11.1 | Reproductive toxicity: Suspected of damaging fertility. | Reproductive toxicity: May damage the unborn child. May damage fertility. | yes |
| 12.1 | Toxicity: Very toxic to aquatic life with long lasting effects. | Toxicity: Very toxic to aquatic life with long lasting effects. Toxic to aquatic life with long lasting effects. | yes |
| 12.1 | | Aquatic toxicity (acute) of components of the mixture: change in the listing (table) | yes |
| 12.1 | | Aquatic toxicity (chronic) of components of the mixture: change in the listing (table) | yes |
| 12.5 | Results of PBT and vPvB assessment: Data are not available. | Results of PBT and vPvB assessment: According to the results of its assessment, this substance is not a PBT or a vPvB. Does not contain a PBT-/vPvB-substance in a concentration of $\geq 0.1\%$. | yes |
| 12.6 | Endocrine disrupting potential: None of the ingredients are listed. | Endocrine disrupting properties: Does not contain an endocrine disruptor (EDC) in a concentration of $\geq 0.1\%$. | yes |
| 12.7 | Other adverse effects | Other adverse effects: Data are not available. | yes |
| 14.1 | UN number: 3082 | UN number | yes |
| 14.1 | | DOT: UN 3082 | yes |
| 14.1 | | IMDG-Code: UN 3082 | yes |
| 14.1 | | ICAO-TI: UN 3082 | yes |
| 14.2 | UN proper shipping name: Environmentally hazardous substance, liquid, n.o.s. | UN proper shipping name | yes |
| 14.2 | | DOT: Environmentally hazardous substance, liquid, n.o.s. | yes |
| 14.2 | | IMDG-Code: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. | yes |



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| Section | Former entry (text/value) | Actual entry (text/value) | Safety-relevant |
|---------|--|---|-----------------|
| 14.2 | | ICAO-TI: Environmentally hazardous substance, liquid, n.o.s. | yes |
| 14.2 | Technical name (hazardous ingredients): Nopyl acetate, Distillates (petroleum), hydro- treated light | Technical name (hazardous ingredients): Nopyl acetate, Hexyl cinnamaldehyde | yes |
| 14.3 | Class: 9 (environmentally hazardous) | | yes |
| 14.3 | | DOT: 9 | yes |
| 14.3 | | IMDG-Code: 9 | yes |
| 14.3 | | ICAO-TI: 9 | yes |
| 14.4 | Packing group: III (substance presenting low danger) | Packing group | yes |
| 14.4 | | DOT: III | yes |
| 14.4 | | IMDG-Code: III | yes |
| 14.4 | | ICAO-TI: III | yes |
| 14.5 | Environmentally hazardous substance (aquatic environment): Nopyl acetate, Distillates (petroleum), hydro- treated light | Environmentally hazardous substance (aquatic environment): Nopyl acetate, Hexyl cinnamaldehyde | yes |
| 14.7 | Index number: 3082 | | yes |
| 14.7 | Proper shipping name: Environmentally hazardous substance, liquid, n.o.s. | | yes |
| 14.7 | Class: 9 | | yes |
| 14.7 | Packing group: III | | yes |
| 14.7 | Particulars in the shipper's declaration: UN3082, Environmentally hazardous substance, liquid, n.o.s., 9, III | Particulars in the shipper's declaration: UN3082, Environmentally hazardous substance, liquid, n.o.s., (contains: Nopyl acetate, Hexyl cin- namaldehyde), 9, III | yes |



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| Section | Former entry (text/value) | Actual entry (text/value) | Safety-relevant |
|---------|---|--|-----------------|
| 14.7 | UN number: 3082 | | yes |
| 14.7 | Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. | | yes |
| 14.7 | Class: 9 | | yes |
| 14.7 | Packing group: III | | yes |
| 14.7 | Particulars in the shipper's declaration: UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., 9, III, 29°C c.c. | Particulars in the shipper's declaration: UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (contains: Nopyl acetate, Hexyl cinnamaldehyde), 9, III, 29°C c.c. | yes |
| 14.7 | Marine pollutant: yes (hazardous to the aquatic environment) | Marine pollutant: yes (hazardous to the aquatic environment) (Nopyl acetate) | yes |
| 14.7 | UN number: 3082 | | yes |
| 14.7 | Proper shipping name: Environmentally hazardous substance, liquid, n.o.s. | | yes |
| 14.7 | Class: 9 | | yes |
| 14.7 | Packing group: III | | yes |
| 14.7 | Particulars in the shipper's declaration: UN3082, Environmentally hazardous substance, liquid, n.o.s., 9, III | Particulars in the shipper's declaration: UN3082, Environmentally hazardous substance, liquid, n.o.s., (contains: Nopyl acetate, Hexyl cinnamaldehyde), 9, III | yes |
| 15.1 | Toxic Substance Control Act (TSCA): all ingredients are listed | Toxic Substance Control Act (TSCA): not all ingredients are listed (ACTIVE) | yes |
| 15.1 | | Cleaning Product Right to Know Act Substance List (CA-RTK): change in the listing (table) | yes |
| 15.1 | Hazardous Substances List (MN-ERTK) | | yes |
| 15.1 | | Hazardous Substances List (MN-ERTK): change in the listing (table) | yes |
| 15.1 | | Hazardous Substance List (NJ-RTK): change in the listing (table) | yes |



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| Section | Former entry (text/value) | Actual entry (text/value) | Safety-relevant |
|---------|--|---|-----------------|
| 15.1 | Hazardous Substance List (Chapter 323) (PA-RTK): none of the ingredients are listed | | yes |
| 15.1 | Hazardous Substance List (RI-RTK): none of the ingredients are listed | | yes |
| 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 | | National inventories: change in the listing (table) | yes |

Abbreviations and acronyms

| Abbr. | Descriptions of used abbreviations |
|---------------|--|
| 49 CFR US DOT | 49 CFR U.S. Department of Transportation |
| ACGIH® 2023 | From ACGIH®, 2023 TLVs® and BEIs® Book. Copyright 2023. Reprinted with permission. Information on the proper use of the TLVs® and BEIs®: http://www.acgih.org/tlv-bei-guidelines/policies-procedures-presentations/tlv-bei-position-statement |
| Acute Tox. | Acute toxicity |
| Asp. Tox. | Aspiration hazard |
| ATE | Acute Toxicity Estimate |
| Cal/OSHA PEL | California Division of Occupational Safety and Health (Cal/OSHA): Permissible Exposure Limits (PELs) |
| CAS | Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances) |
| Ceiling-C | Ceiling value |
| DGR | Dangerous Goods Regulations (see IATA/DGR) |
| DNEL | Derived No-Effect Level |
| DOT | Department of Transportation (USA) |
| EC50 | Effective Concentration 50 %. The EC50 corresponds to the concentration of a tested substance causing 50 % changes in response (e.g. on growth) during a specified time interval |
| EINECS | European Inventory of Existing Commercial Chemical Substances |
| EL50 | Effective Loading 50 %: the EL50 corresponds to the loading rate required to produce a response in 50% of the test organisms |
| ELINCS | European List of Notified Chemical Substances |
| EmS | Emergency Schedule |



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| Abbr. | Descriptions of used abbreviations |
|----------------|--|
| ErC50 | ≡ EC50: in this method, that concentration of test substance which results in a 50 % reduction in either growth (EbC50) or growth rate (ErC50) relative to the control |
| ERG No | Emergency Response Guidebook - Number |
| Eye Dam. | Seriously damaging to the eye |
| Eye Irrit. | Irritant to the eye |
| Flam. Liq. | Flammable liquid |
| GHS | "Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations |
| IARC | International Agency for Research on Cancer |
| IATA | International Air Transport Association |
| IATA/DGR | Dangerous Goods Regulations (DGR) for the air transport (IATA) |
| ICAO | International Civil Aviation Organization |
| ICAO-TI | Technical instructions for the safe transport of dangerous goods by air |
| IMDG | International Maritime Dangerous Goods Code |
| IMDG-Code | International Maritime Dangerous Goods Code |
| LC50 | Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 % lethality during a specified time interval |
| LL50 | Lethal Loading 50 %: the LL50 corresponds to the loading rate causing 50 % lethality |
| LOEC | Lowest Observed Effect Concentration |
| LOEL | Lowest Observed Effect Level |
| NLP | No-Longer Polymer |
| NOEC | No Observed Effect Concentration |
| NPCA-HMIS® III | National Paint and Coatings Association: Hazardous Materials Identification System - HMIS® III, Third Edition |
| OSHA | Occupational Safety and Health Administration (United States) |
| PBT | Persistent, Bioaccumulative and Toxic |
| PNEC | Predicted No-Effect Concentration |
| ppm | Parts per million |
| Repr. | Reproductive toxicity |
| RTECS | Registry of Toxic Effects of Chemical Substances (database of NIOSH with toxicological information) |
| Skin Corr. | Corrosive to skin |
| Skin Irrit. | Irritant to skin |



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| Abbr. | Descriptions of used abbreviations |
|------------|--|
| Skin Sens. | Skin sensitization |
| STEL | Short-term exposure limit |
| STOT RE | Specific target organ toxicity - repeated exposure |
| STOT SE | Specific target organ toxicity - single exposure |
| TLV® | Threshold Limit Values |
| TWA | Time-weighted average |
| vPvB | Very Persistent and very Bioaccumulative |

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).

List of relevant phrases (code and full text as stated in section 2 and 3)

| Code | Text |
|------|---|
| H226 | Flammable liquid and vapor. |
| H227 | Combustible liquid. |
| H302 | Harmful if swallowed. |
| H304 | May be fatal if swallowed and enters airways. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H319 | Causes serious eye irritation. |
| H331 | Toxic if inhaled. |
| H332 | Harmful if inhaled. |
| H336 | May cause drowsiness or dizziness. |
| H360 | May damage fertility or the unborn child. |
| H373 | May cause damage to organs (nervous system) through prolonged or repeated exposure. |



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Disclaimer

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