

Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

Lisbon Lemon

Version number: GHS 1.0

Date of compilation: 2024-05-27

SECTION 1: Identification

1.1 Product identifier

Trade name **Lisbon Lemon**
Product number 10-519-9999

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

Relevant identified uses Industrial use

1.3 Details of the supplier of the safety data sheet

Eybna Technologies Ltd
1 HaYozma St.
4442214 Kfar Saba
Israel
Telephone: +972 3 3741976
e-mail: info@eybna.com
Website: <http://www.eybna.com/>

e-mail (competent person) Gil.ts@eybna.com (Gil Tsapovetsky)

1.4 Emergency telephone number

+1 4158544820

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.6 | carcinogenicity | 2 | Carc. 2 | H351 |
| A.8R | specific target organ toxicity - single exposure (respiratory tract irritation) | 3 | STOT SE 3 | H335 |
| 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

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 warning

- Pictograms

GHS02, GHS07, GHS08



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- Hazard statements

| | |
|------|--------------------------------------|
| H226 | Flammable liquid and vapor. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H319 | Causes serious eye irritation. |
| H335 | May cause respiratory irritation. |
| H351 | Suspected of causing cancer. |

- Precautionary statements

| | |
|----------------|--|
| 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. |
| P261 | Avoid breathing 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. |
| 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. |
| 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). |
| 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 to industrial combustion plant. |

2.3 Other hazards

Hazards not otherwise classified

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

Results of PBT and vPvB assessment

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

Endocrine disrupting properties

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

SECTION 3: Composition/information on ingredients

3.1 Substances

Not relevant (mixture)

3.2 Mixtures

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Description of the mixture

| Name of substance | Wt% | Classification acc. to GHS |
|----------------------------------|-----------|---|
| Proprietary Aldehyde | 25 – < 50 | Skin Irrit. 2 / H315 Eye Irrit. 2 / H319 Skin Sens. 1 / H317 |
| Proprietary Monoterpene | 10 – < 25 | Skin Irrit. 2 / H315 Skin Sens. 1 / H317 |
| Proprietary Monoterpene | 5 – < 10 | Acute Tox. 4 / H302 Skin Irrit. 2 / H315 Eye Irrit. 2 / H319 Skin Sens. 1B / H317 STOT SE 3 / H335 Flam. Liq. 3 / H226 |
| Proprietary Monoterpenic Alcohol | 5 – < 10 | Skin Irrit. 2 / H315 Eye Irrit. 2 / H319 Skin Sens. 1B / H317 STOT SE 3 / H335 Flam. Liq. 4 / H227 |
| Proprietary Monoterpene | 1 – < 5 | Skin Irrit. 2 / H315 Eye Irrit. 2 / H319 Skin Sens. 1 / H317 STOT SE 3 / H335 |
| Proprietary Monoterpenic Alcohol | 1 – < 5 | Skin Irrit. 2 / H315 Eye Irrit. 2 / H319 STOT SE 3 / H335 |
| Proprietary Monoterpene | 1 – < 5 | Skin Irrit. 2 / H315 Eye Irrit. 2 / H319 Skin Sens. 1 / H317 Asp. Tox. 1 / H304 Flam. Liq. 3 / H226 |
| Proprietary Ketone | 1 – < 5 | Acute Tox. 4 / H302 |
| Proprietary Sesquiterpene | 1 – < 5 | Acute Tox. 4 / H302 |
| Proprietary aldehyde terpene | 1 – < 5 | Eye Irrit. 2 / H319 Flam. Liq. 4 / H227 |
| Proprietary Aldehyde | 1 – < 5 | Acute Tox. 4 / H302 Skin Irrit. 2 / H315 Eye Irrit. 2 / H319 Flam. Liq. 3 / H226 |
| Proprietary Monoterpene | 0 – < 1 | Skin Irrit. 2 / H315 Eye Irrit. 2 / H319 Carc. 2 / H351 Asp. Tox. 1 / H304 Flam. Liq. 3 / H226 |
| Proprietary Monoterpene | 0 – < 1 | Acute Tox. 4 / H302 Skin Irrit. 2 / H315 Eye Irrit. 2 / H319 Skin Sens. 1 / H317 STOT SE 3 / H335 Flam. Liq. 3 / H226 |

Remarks

For full text of abbreviations: see SECTION 16

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SECTION 4: First-aid measures

4.1 Description of first-aid measures

General notes

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

Following inhalation

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

Following skin contact

Wash with plenty of soap and water.

Following eye contact

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

Following ingestion

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

4.2 Most important symptoms and effects, both acute and delayed

Symptoms and effects are not known to date.

4.3 Indication of any immediate medical attention and special treatment needed

none

SECTION 5: Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media

Water spray, BC-powder, Carbon dioxide (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.

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.

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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 substance | Identifier | TWA [ppm] | TWA [mg/m ³] | STEL [ppm] | STEL [mg/m ³] | Ceiling-C [ppm] | Ceiling-C [mg/m ³] | Notation | Source |
| US | Citral Neral | TLV® | 5 | | | | | | iv, H | ACGIH® 2024 |

Notation

Ceiling-C

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

H

absorbed through the skin

iv

inhalable fraction and vapor

STEL

short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period (unless otherwise specified)

TWA

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

| Relevant DNELs of components | | | | |
|------------------------------|-------------------------|------------------------------------|-------------------|----------------------------|
| Endpoint | Threshold level | Protection goal, route of exposure | Used in | Exposure time |
| DNEL | 9 mg/m ³ | human, inhalatory | worker (industry) | chronic - systemic effects |
| DNEL | 1.7 mg/kg bw/day | human, dermal | worker (industry) | chronic - systemic effects |
| DNEL | 140 µg/cm ² | human, dermal | worker (industry) | chronic - local effects |
| DNEL | 62.59 mg/m ³ | human, inhalatory | worker (industry) | chronic - systemic effects |
| DNEL | 35.5 mg/kg bw/day | human, dermal | worker (industry) | chronic - systemic effects |
| DNEL | 2.8 mg/m ³ | human, inhalatory | worker (industry) | chronic - systemic effects |
| DNEL | 16.5 mg/m ³ | human, inhalatory | worker (industry) | acute - systemic effects |
| DNEL | 2.5 mg/kg bw/day | human, dermal | worker (industry) | chronic - systemic effects |
| DNEL | 5 mg/kg bw/day | human, dermal | worker (industry) | acute - systemic effects |
| DNEL | 9 mg/m ³ | human, inhalatory | worker (industry) | chronic - systemic effects |

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| Relevant DNELs of components | | | | |
|------------------------------|-------------------------|------------------------------------|-------------------|----------------------------|
| Endpoint | Threshold level | Protection goal, route of exposure | Used in | Exposure time |
| DNEL | 1.7 mg/kg bw/day | human, dermal | worker (industry) | chronic - systemic effects |
| DNEL | 140 µg/cm ² | human, dermal | worker (industry) | chronic - local effects |
| DNEL | 4.4 mg/m ³ | human, inhalatory | worker (industry) | chronic - systemic effects |
| DNEL | 1.25 mg/kg bw/day | human, dermal | worker (industry) | chronic - systemic effects |
| DNEL | 66.7 mg/m ³ | human, inhalatory | worker (industry) | chronic - systemic effects |
| DNEL | 9.5 mg/kg bw/day | human, dermal | worker (industry) | chronic - systemic effects |
| DNEL | 24.86 mg/m ³ | human, inhalatory | worker (industry) | chronic - systemic effects |
| DNEL | 49.71 mg/m ³ | human, inhalatory | worker (industry) | acute - systemic effects |
| DNEL | 62.14 mg/m ³ | human, inhalatory | worker (industry) | chronic - local effects |
| DNEL | 124.3 mg/m ³ | human, inhalatory | worker (industry) | acute - local effects |
| DNEL | 7.05 mg/kg bw/day | human, dermal | worker (industry) | chronic - systemic effects |
| DNEL | 14.1 mg/kg bw/day | human, dermal | worker (industry) | acute - systemic effects |
| DNEL | 5.1 mg/m ³ | human, inhalatory | worker (industry) | chronic - systemic effects |
| DNEL | 102 mg/m ³ | human, inhalatory | worker (industry) | acute - systemic effects |
| DNEL | 2.6 mg/kg bw/day | human, dermal | worker (industry) | chronic - systemic effects |
| DNEL | 3.8 mg/m ³ | human, inhalatory | worker (industry) | chronic - systemic effects |
| DNEL | 0.542 mg/kg bw/day | human, dermal | worker (industry) | chronic - systemic effects |

| Relevant PNECs of components | | | | | |
|------------------------------|----------|-----------------|-----------------------|------------------------------|------------------------------|
| Other names or synonyms | Endpoint | Threshold level | Organism | Environmental compartment | Exposure time |
| Proprietary Aldehyde | PNEC | 0.007 mg/l | aquatic organisms | freshwater | short-term (single instance) |
| Proprietary Aldehyde | PNEC | 0.001 mg/l | aquatic organisms | marine water | short-term (single instance) |
| Proprietary Aldehyde | PNEC | 1.6 mg/l | aquatic organisms | sewage treatment plant (STP) | short-term (single instance) |
| Proprietary Aldehyde | PNEC | 0.125 mg/kg | aquatic organisms | freshwater sediment | short-term (single instance) |
| Proprietary Aldehyde | PNEC | 0.013 mg/kg | aquatic organisms | marine sediment | short-term (single instance) |
| Proprietary Aldehyde | PNEC | 0.021 mg/kg | terrestrial organisms | soil | short-term (single instance) |
| Proprietary Monoterpene | PNEC | 3.72 µg/l | aquatic organisms | freshwater | short-term (single instance) |
| Proprietary Monoterpene | PNEC | 0.372 µg/l | aquatic organisms | marine water | short-term (single instance) |

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| Relevant PNECs of components | | | | | |
|----------------------------------|----------|-----------------|-----------------------|------------------------------|------------------------------|
| Other names or synonyms | Endpoint | Threshold level | Organism | Environmental compartment | Exposure time |
| Proprietary Monoterpene | PNEC | 8 mg/l | aquatic organisms | sewage treatment plant (STP) | short-term (single instance) |
| Proprietary Monoterpene | PNEC | 0.442 mg/kg | aquatic organisms | freshwater sediment | short-term (single instance) |
| Proprietary Monoterpene | PNEC | 0.044 mg/kg | aquatic organisms | marine sediment | short-term (single instance) |
| Proprietary Monoterpene | PNEC | 0.086 mg/kg | terrestrial organisms | soil | short-term (single instance) |
| Proprietary Monoterpenic Alcohol | PNEC | 0.2 mg/l | aquatic organisms | freshwater | short-term (single instance) |
| Proprietary Monoterpenic Alcohol | PNEC | 0.02 mg/l | aquatic organisms | marine water | short-term (single instance) |
| Proprietary Monoterpenic Alcohol | PNEC | 10 mg/l | aquatic organisms | sewage treatment plant (STP) | short-term (single instance) |
| Proprietary Monoterpenic Alcohol | PNEC | 2.22 mg/kg | aquatic organisms | freshwater sediment | short-term (single instance) |
| Proprietary Monoterpenic Alcohol | PNEC | 0.222 mg/kg | aquatic organisms | marine sediment | short-term (single instance) |
| Proprietary Monoterpenic Alcohol | PNEC | 0.327 mg/kg | terrestrial organisms | soil | short-term (single instance) |
| Proprietary Monoterpene | PNEC | 0.007 mg/l | aquatic organisms | freshwater | short-term (single instance) |
| Proprietary Monoterpene | PNEC | 0.001 mg/l | aquatic organisms | marine water | short-term (single instance) |
| Proprietary Monoterpene | PNEC | 1.6 mg/l | aquatic organisms | sewage treatment plant (STP) | short-term (single instance) |
| Proprietary Monoterpene | PNEC | 0.125 mg/kg | aquatic organisms | freshwater sediment | short-term (single instance) |
| Proprietary Monoterpene | PNEC | 0.013 mg/kg | aquatic organisms | marine sediment | short-term (single instance) |
| Proprietary Monoterpene | PNEC | 0.021 mg/kg | terrestrial organisms | soil | short-term (single instance) |
| Proprietary Monoterpenic Alcohol | PNEC | 7.45 µg/l | aquatic organisms | freshwater | short-term (single instance) |
| Proprietary Monoterpenic Alcohol | PNEC | 0.745 µg/l | aquatic organisms | marine water | short-term (single instance) |
| Proprietary Monoterpenic Alcohol | PNEC | 12.9 mg/l | aquatic organisms | sewage treatment plant (STP) | short-term (single instance) |

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| Relevant PNECs of components | | | | | |
|----------------------------------|----------|-----------------|-----------------------|------------------------------|------------------------------|
| Other names or synonyms | Endpoint | Threshold level | Organism | Environmental compartment | Exposure time |
| Proprietary Monoterpenic Alcohol | PNEC | 133 µg/kg | aquatic organisms | freshwater sediment | short-term (single instance) |
| Proprietary Monoterpenic Alcohol | PNEC | 13.3 µg/kg | aquatic organisms | marine sediment | short-term (single instance) |
| Proprietary Monoterpenic Alcohol | PNEC | 22.3 µg/kg | terrestrial organisms | soil | short-term (single instance) |
| Proprietary Monoterpene | PNEC | 14 µg/l | aquatic organisms | freshwater | short-term (single instance) |
| Proprietary Monoterpene | PNEC | 1.4 µg/l | aquatic organisms | marine water | short-term (single instance) |
| Proprietary Monoterpene | PNEC | 1.8 mg/l | aquatic organisms | sewage treatment plant (STP) | short-term (single instance) |
| Proprietary Monoterpene | PNEC | 3.85 mg/kg | aquatic organisms | freshwater sediment | short-term (single instance) |
| Proprietary Monoterpene | PNEC | 0.385 mg/kg | aquatic organisms | marine sediment | short-term (single instance) |
| Proprietary Monoterpene | PNEC | 0.763 mg/kg | terrestrial organisms | soil | short-term (single instance) |
| Proprietary aldehyde terpene | PNEC | 1.17 µg/l | aquatic organisms | freshwater | short-term (single instance) |
| Proprietary aldehyde terpene | PNEC | 0.117 µg/l | aquatic organisms | marine water | short-term (single instance) |
| Proprietary aldehyde terpene | PNEC | 3.16 mg/l | aquatic organisms | sewage treatment plant (STP) | short-term (single instance) |
| Proprietary aldehyde terpene | PNEC | 0.097 mg/kg | aquatic organisms | freshwater sediment | short-term (single instance) |
| Proprietary aldehyde terpene | PNEC | 0.01 mg/kg | aquatic organisms | marine sediment | short-term (single instance) |
| Proprietary aldehyde terpene | PNEC | 0.019 mg/kg | terrestrial organisms | soil | short-term (single instance) |
| Proprietary Aldehyde | PNEC | 0.017 mg/l | aquatic organisms | freshwater | short-term (single instance) |
| Proprietary Aldehyde | PNEC | 0.002 mg/l | aquatic organisms | marine water | short-term (single instance) |
| Proprietary Aldehyde | PNEC | 100 mg/l | aquatic organisms | sewage treatment plant (STP) | short-term (single instance) |
| Proprietary Aldehyde | PNEC | 10.66 mg/kg | aquatic organisms | freshwater sediment | short-term (single instance) |
| Proprietary Aldehyde | PNEC | 1.07 mg/kg | aquatic organisms | marine sediment | short-term (single instance) |
| Proprietary Aldehyde | PNEC | 2.12 mg/kg | terrestrial organisms | soil | short-term (single instance) |

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| Relevant PNECs of components | | | | | |
|------------------------------|----------|-----------------|-----------------------|------------------------------|------------------------------|
| Other names or synonyms | Endpoint | Threshold level | Organism | Environmental compartment | Exposure time |
| Proprietary Monoterpene | PNEC | 0.606 µg/l | aquatic organisms | freshwater | short-term (single instance) |
| Proprietary Monoterpene | PNEC | 0.061 µg/l | aquatic organisms | marine water | short-term (single instance) |
| Proprietary Monoterpene | PNEC | 0.2 mg/l | aquatic organisms | sewage treatment plant (STP) | short-term (single instance) |
| Proprietary Monoterpene | PNEC | 157 µg/kg | aquatic organisms | freshwater sediment | short-term (single instance) |
| Proprietary Monoterpene | PNEC | 15.7 µg/kg | aquatic organisms | marine sediment | short-term (single instance) |
| Proprietary Monoterpene | PNEC | 31.7 µg/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.

- 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 | |
| Particle | not relevant (liquid) |

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| | |
|------|----------------|
| Odor | characteristic |
|------|----------------|

Other safety parameters

| | |
|---|---|
| pH (value) | not determined |
| Melting point/freezing point | not determined |
| Initial boiling point and boiling range | 173 °C at 1 atm |
| Flash point | 47 °C at 101.3 kPa |
| Evaporation rate | Not determined |
| Flammability (solid, gas) | not relevant, (fluid) |
| Vapor pressure | 1.81 mmHg at 20 °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 | >199 °C (auto-ignition temperature (liquids and gases)) |
| Viscosity | not determined |
| Explosive properties | none |
| Oxidizing properties | none |

9.2

| | |
|--------------------------|------------------------------------|
| Other information | there is no additional information |
|--------------------------|------------------------------------|

SECTION 10: Stability and reactivity

10.1 Reactivity

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

If heated:

Risk of ignition

10.2 Chemical stability

See below "Conditions to avoid".

10.3 Possibility of hazardous reactions

No known hazardous reactions.

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10.4 Conditions to avoid

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

Hints to prevent fire or explosion

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

10.5 Incompatible materials

Oxidizers

10.6 Hazardous decomposition products

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

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Test data are not available for the complete mixture.

Classification procedure

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

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

Acute toxicity

Shall not be classified as acutely toxic.

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

| Acute toxicity estimate (ATE) of components | | |
|---|----------------|-------------|
| Other names or synonyms | Exposure route | ATE |
| Proprietary Monoterpene | oral | 500 mg/kg |
| Proprietary Ketone | oral | 1,320 mg/kg |
| Proprietary Sesquiterpene | oral | 500 mg/kg |
| Proprietary Monoterpene | oral | 500 mg/kg |

Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/eye irritation

Causes serious eye irritation.

Respiratory or skin sensitization

May cause an allergic skin reaction.

Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

Carcinogenicity

Suspected of causing cancer.

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IARC Monographs on the Evaluation of Carcinogenic Risks to Humans

| Name of substance | Classification | Number |
|-------------------------|----------------|--------|
| Proprietary Monoterpene | 2B | |
| Proprietary Monoterpene | 3 | |

Legend

| | |
|----|--|
| 2B | Possibly carcinogenic to humans |
| 3 | Not classifiable as to carcinogenicity in humans |

Reproductive toxicity

Shall not be classified as a reproductive toxicant.

Specific target organ toxicity - single exposure

May cause respiratory irritation.

Specific target organ toxicity - repeated exposure

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

Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

SECTION 12: Ecological information

12.1 Toxicity

Toxic to aquatic life with long lasting effects.

Aquatic toxicity (acute) of components

| Other names or synonyms | Endpoint | Value | Species | Exposure time |
|----------------------------------|----------|------------|-----------------------|---------------|
| Proprietary Aldehyde | LC50 | 6.78 mg/l | fish | 96 h |
| Proprietary Aldehyde | EC50 | 6.8 mg/l | aquatic invertebrates | 48 h |
| Proprietary Aldehyde | ErC50 | 103.8 mg/l | algae | 72 h |
| Proprietary Monoterpene | LC50 | 68.12 mg/l | fish | 96 h |
| Proprietary Monoterpene | EC50 | 14.1 mg/l | aquatic invertebrates | 48 h |
| Proprietary Monoterpene | ErC50 | 3.72 mg/l | algae | 72 h |
| Proprietary Monoterpenic Alcohol | LC50 | 27.8 mg/l | fish | 96 h |
| Proprietary Monoterpenic Alcohol | EC50 | 59 mg/l | aquatic invertebrates | 48 h |
| Proprietary Monoterpenic Alcohol | ErC50 | 156.7 mg/l | algae | 96 h |
| Proprietary Monoterpene | EC50 | 1.7 mg/l | aquatic invertebrates | 48 h |

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| Aquatic toxicity (acute) of components | | | | |
|--|----------|------------|-----------------------|---------------|
| Other names or synonyms | Endpoint | Value | Species | Exposure time |
| Proprietary Monoterpene | LC50 | 6.78 mg/l | fish | 96 h |
| Proprietary Monoterpene | EC50 | 6.8 mg/l | aquatic invertebrates | 48 h |
| Proprietary Monoterpene | ErC50 | 103.8 mg/l | algae | 72 h |
| Proprietary Monoterpenic Alcohol | LC50 | 20.3 mg/l | fish | 96 h |
| Proprietary Monoterpenic Alcohol | EC50 | 32.4 mg/l | aquatic invertebrates | 48 h |
| Proprietary Monoterpenic Alcohol | ErC50 | 9.54 mg/l | algae | 72 h |
| Proprietary Monoterpene | LC50 | 720 µg/l | fish | 96 h |
| Proprietary Monoterpene | EC50 | 688 µg/l | fish | 96 h |
| Proprietary Monoterpene | ErC50 | 0.32 mg/l | algae | 72 h |
| Proprietary aldehyde terpene | LC50 | 2.1 mg/l | fish | 96 h |
| Proprietary aldehyde terpene | EC50 | 2.95 mg/l | aquatic invertebrates | 24 h |
| Proprietary aldehyde terpene | ErC50 | 4.5 mg/l | algae | 72 h |
| Proprietary Aldehyde | LC50 | 2.32 mg/l | fish | 96 h |
| Proprietary Aldehyde | EC50 | 4.26 mg/l | aquatic invertebrates | 24 h |
| Proprietary Aldehyde | ErC50 | 0.475 mg/l | algae | 72 h |
| Proprietary Monoterpene | EC50 | 1.47 mg/l | aquatic invertebrates | 48 h |
| Proprietary Monoterpene | ErC50 | 0.342 mg/l | algae | 72 h |
| Proprietary Monoterpene | LC50 | 0.303 mg/l | fish | 96 h |
| Proprietary Monoterpene | EC50 | 0.475 mg/l | aquatic invertebrates | 48 h |

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| Aquatic toxicity (chronic) of components | | | | |
|--|----------|--------------|----------------|---------------|
| Other names or synonyms | Endpoint | Value | Species | Exposure time |
| Proprietary Aldehyde | EC50 | 160 mg/l | microorganisms | 30 min |
| Proprietary Monoterpenic Alcohol | EC50 | >100 mg/l | microorganisms | 30 min |
| Proprietary Monoterpene | EC50 | 160 mg/l | microorganisms | 30 min |
| Proprietary Monoterpenic Alcohol | EC50 | 241 mg/l | microorganisms | 3 h |
| Proprietary Monoterpene | EC50 | <0.67 mg/l | fish | 8 d |
| Proprietary Monoterpene | LC50 | 0.41 mg/l | fish | 8 d |
| Proprietary aldehyde terpene | EC50 | 70 mg/l | microorganisms | 3 h |
| Proprietary Aldehyde | EC50 | >10,000 mg/l | microorganisms | 3 h |

12.2 Persistence and degradability

Data are not available.

12.3 Bioaccumulative potential

Data are not available.

12.4 Mobility in soil

Data are not available.

12.5 Results of PBT and vPvB assessment

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

12.6 Endocrine disrupting properties

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

12.7 Other adverse effects

Data are not available.

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.

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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 1993 |
| IMDG-Code | UN 1993 |
| ICAO-TI | UN 1993 |

14.2 UN proper shipping name

| | |
|--|------------------------------|
| DOT | Flammable liquid, n.o.s. |
| IMDG-Code | FLAMMABLE LIQUID, N.O.S. |
| ICAO-TI | Flammable liquid, n.o.s. |
| Technical name (hazardous ingredients) | Alpha-Terpinene, Terpinolene |

14.3 Transport hazard class(es)

| | |
|-----------|---|
| DOT | 3 |
| IMDG-Code | 3 |
| ICAO-TI | 3 |

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) | Alpha-Terpinene |

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

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

| | |
|---|---|
| Particulars in the shipper's declaration | UN1993, Flammable liquid, n.o.s., (contains: Alpha-Terpinene, Terpinolene), 3, III, environmentally hazardous |
| Danger label(s) | 3, fish and tree |
|   | |
| Environmental hazards | YES (hazardous to the aquatic environment) |
| Special provisions (SP) | B1, B52, IB3, T4, TP1, TP29 |
| ERG No | 128 |

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International Maritime Dangerous Goods Code (IMDG) - Additional information

Marine pollutant YES (hazardous to the aquatic environment) (Alpha-Terpinene)

Danger label(s) 3, fish and tree



Special provisions (SP) 223, 274, 955

Excepted quantities (EQ) E1

Limited quantities (LQ) 5 L

EmS F-E, S-E

Stowage category A

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

Environmental hazards YES (hazardous to the aquatic environment)

Danger label(s) 3



Special provisions (SP) A3

Excepted quantities (EQ) E1

Limited quantities (LQ) 10 L

SECTION 15: Regulatory information

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

National regulations (United States)

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

Superfund Amendment and Reauthorization Act (SARA TITLE III)

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

none of the ingredients are listed

- Specific Toxic Chemical Listings (EPCRA Section 313)

none of the ingredients are listed

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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- Hazardous Substance List (NJ-RTK)

| Name of substance | CAS No | Remarks | Classifications |
|------------------------|----------|---------|-----------------|
| Alpha-Pinene | 80-56-8 | | F3 |
| (R)-p-mentha-1,8-diene | 138-86-3 | | F2 |

Legend

F2 Flammable - Second Degree
F3 Flammable - Third Degree

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

| Proposition 65 List of chemicals | | | |
|----------------------------------|----------|---------|----------------------|
| Name acc. to inventory | CAS No | Remarks | Type of the toxicity |
| beta-Myrcene | 123-35-3 | | cancer |

Industry or sector specific available guidance(s)

NPCA-HMIS® III

Hazardous Materials Identification System. American Coatings Association.

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

NFPA® 704

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

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

National inventories

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| Country | Inventory | Status |
|---------|-----------|-------------------------------------|
| US | TSCA | all ingredients are listed (ACTIVE) |

Legend

TSCA Toxic Substance Control Act

15.2 Chemical Safety Assessment

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

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

Abbreviations and acronyms

| Abbr. | Descriptions of used abbreviations |
|---------------|--|
| 49 CFR US DOT | 49 CFR U.S. Department of Transportation |
| ACGIH® 2024 | From ACGIH®, 2024 TLVs® and BEIs® Book. Copyright 2024. 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 |
| Carc. | Carcinogenicity |
| 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 |
| ED | Endocrine disruptor |
| EmS | Emergency Schedule |
| 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 |

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| Abbr. | Descriptions of used abbreviations |
|----------------|---|
| 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 |
| 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 |
| Skin Corr. | Corrosive to skin |
| Skin Irrit. | Irritant to skin |
| Skin Sens. | Skin sensitization |
| STEL | Short-term exposure limit |
| 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. |
| H335 | May cause respiratory irritation. |

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| Code | Text |
|------|------------------------------|
| H351 | Suspected of causing cancer. |

Disclaimer

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