

Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

Green Apple

Version number: GHS 1.0

Date of compilation: 2024-05-05

SECTION 1: Identification

1.1 Product identifier

Trade name **Green Apple**
Product number 10-517-9999

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.10 | acute toxicity (oral) | 4 | Acute Tox. 4 | H302 |
| 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.10 | aspiration hazard | 1 | Asp. Tox. 1 | H304 |
| 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 danger

- Pictograms

GHS02, GHS07, GHS08



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- Hazard statements

| | |
|------|---|
| H226 | Flammable liquid and vapor. |
| 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. |

- Precautionary statements

| | |
|----------------|--|
| P210 | Keep away from heat/sparks/open flames/hot surfaces. No smoking. |
| P233 | Keep container tightly closed. |
| 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. |
| P270 | Do not eat, drink or smoke when using this product. |
| 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. |
| P301+P312 | If swallowed: Call a poison center/doctor if you feel unwell. |
| 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. |
| P305+P351+P338 | If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P321 | Specific treatment (see on this label). |
| P330 | Rinse mouth. |
| P331 | Do NOT induce vomiting. |
| P333+P313 | If skin irritation or rash occurs: Get medical advice/attention. |
| P337+P313 | If eye irritation persists: Get medical advice/attention. |
| P362 | Take off contaminated clothing and wash before reuse. |
| P363 | Wash contaminated clothing before reuse. |
| P370+P378 | In case of fire: Use sand, carbon dioxide or powder extinguisher to extinguish. |
| P403+P235 | Store in a well-ventilated place. Keep cool. |
| P405 | Store locked up. |
| P501 | Dispose of contents/container to industrial combustion plant. |

2.3 Other hazards

Hazards not otherwise classified

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

Results of PBT and vPvB assessment

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 $\geq 0.1\%$.

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SECTION 3: Composition/information on ingredients

3.1 Substances

Not relevant (mixture)

3.2 Mixtures

Description of the mixture

| Name of substance | Wt% | Classification acc. to GHS |
|------------------------------------|-----------|--|
| Proprietary Sesquiterpene | 25 - < 50 | Acute Tox. 4 / H302 |
| Proprietary Sesquiterpene | 10 - < 25 | Acute Tox. 4 / H302 |
| 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 Sesquiterpene | 5 - < 10 | Skin Irrit. 2 / H315 Skin Sens. 1 / H317 Asp. Tox. 1 / H304 |
| Proprietary Sesquiterpene | 5 - < 10 | Asp. Tox. 1 / H304 |
| Proprietary Monoterpenic Alcohol | 1 - < 5 | Skin Irrit. 2 / H315 Eye Irrit. 2 / H319 STOT SE 3 / H335 |
| Proprietary Sesquiterpenic Alcohol | 1 - < 5 | Skin Irrit. 2 / H315 Eye Irrit. 2 / H319 STOT SE 3 / H335 |
| Proprietary Alcohol | 1 - < 5 | Eye Irrit. 2 / H319 Flam. Liq. 3 / H226 |
| Proprietary fatty acid ethyl ester | 1 - < 5 | Skin Irrit. 2 / H315 Flam. Liq. 3 / H226 |
| Proprietary Ester | 1 - < 5 | Skin Irrit. 2 / H315 Flam. Liq. 3 / H226 |
| Proprietary Terpene Ester | 1 - < 5 | Eye Irrit. 2B / H320 Flam. Liq. 3 / H226 |

Remarks

For full text of abbreviations: see SECTION 16

SECTION 4: First-aid measures

4.1 Description of first-aid measures

General notes

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

Following inhalation

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

Following skin contact

Wash with plenty of soap and water.

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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.

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

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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.

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.

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SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values (Workplace Exposure Limits)
this information is not available

| Relevant DNELs of components | | | | |
|------------------------------|--------------------------|------------------------------------|-------------------|----------------------------|
| Endpoint | Threshold level | Protection goal, route of exposure | Used in | Exposure time |
| 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 | 9.03 mg/m ³ | human, inhalatory | worker (industry) | chronic - systemic effects |
| DNEL | 158 mg/kg bw/day | human, dermal | worker (industry) | chronic - systemic effects |
| DNEL | 11.75 mg/m ³ | human, inhalatory | worker (industry) | chronic - systemic effects |
| DNEL | 3.33 mg/kg bw/day | human, dermal | worker (industry) | chronic - systemic effects |
| DNEL | 10 mg/m ³ | human, inhalatory | worker (industry) | chronic - systemic effects |
| DNEL | 2.8 mg/kg bw/day | human, dermal | worker (industry) | chronic - systemic effects |
| DNEL | 122.5 µg/cm ² | human, dermal | worker (industry) | chronic - local effects |
| DNEL | 48 mg/m ³ | human, inhalatory | worker (industry) | chronic - systemic effects |
| DNEL | 14 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 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) |

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| Relevant PNECs of components | | | | | |
|------------------------------------|----------|-----------------|-----------------------|------------------------------|------------------------------|
| Other names or synonyms | Endpoint | Threshold level | Organism | Environmental compartment | Exposure time |
| Proprietary Monoterpenic Alcohol | PNEC | 68 µg/l | aquatic organisms | freshwater | short-term (single instance) |
| Proprietary Monoterpenic Alcohol | PNEC | 6.8 µg/l | aquatic organisms | marine water | short-term (single instance) |
| Proprietary Monoterpenic Alcohol | PNEC | 2.6 mg/l | aquatic organisms | sewage treatment plant (STP) | short-term (single instance) |
| Proprietary Monoterpenic Alcohol | PNEC | 1.85 mg/kg | aquatic organisms | freshwater sediment | short-term (single instance) |
| Proprietary Monoterpenic Alcohol | PNEC | 0.185 mg/kg | aquatic organisms | marine sediment | short-term (single instance) |
| Proprietary Monoterpenic Alcohol | PNEC | 0.329 mg/kg | terrestrial organisms | soil | short-term (single instance) |
| Proprietary Sesquiterpenic Alcohol | PNEC | 0.001 mg/l | aquatic organisms | freshwater | short-term (single instance) |
| Proprietary Sesquiterpenic Alcohol | PNEC | 0 mg/l | aquatic organisms | marine water | short-term (single instance) |
| Proprietary Sesquiterpenic Alcohol | PNEC | 10 mg/l | aquatic organisms | sewage treatment plant (STP) | short-term (single instance) |
| Proprietary Sesquiterpenic Alcohol | PNEC | 0.07 mg/kg | aquatic organisms | freshwater sediment | short-term (single instance) |
| Proprietary Sesquiterpenic Alcohol | PNEC | 0.007 mg/kg | aquatic organisms | marine sediment | short-term (single instance) |
| Proprietary Sesquiterpenic Alcohol | PNEC | 0.014 mg/kg | terrestrial organisms | soil | short-term (single instance) |
| Proprietary Ester | PNEC | 6.74 µg/l | aquatic organisms | freshwater | short-term (single instance) |
| Proprietary Ester | PNEC | 0.674 µg/l | aquatic organisms | marine water | short-term (single instance) |
| Proprietary Ester | PNEC | 10 mg/l | aquatic organisms | sewage treatment plant (STP) | short-term (single instance) |
| Proprietary Ester | PNEC | 136 µg/kg | aquatic organisms | freshwater sediment | short-term (single instance) |
| Proprietary Ester | PNEC | 13.6 µg/kg | aquatic organisms | marine sediment | short-term (single instance) |
| Proprietary Ester | PNEC | 23.2 µg/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 fatty acid ethyl ester | PNEC | 8.45 µg/l | aquatic organisms | freshwater | short-term (single instance) |
| Proprietary fatty acid ethyl ester | PNEC | 0.845 µg/l | aquatic organisms | marine water | short-term (single instance) |
| Proprietary fatty acid ethyl ester | PNEC | 0.3 mg/l | aquatic organisms | sewage treatment plant (STP) | short-term (single instance) |
| Proprietary fatty acid ethyl ester | PNEC | 97.4 µg/kg | aquatic organisms | freshwater sediment | short-term (single instance) |
| Proprietary fatty acid ethyl ester | PNEC | 9.74 µg/kg | aquatic organisms | marine sediment | short-term (single instance) |
| Proprietary fatty acid ethyl ester | PNEC | 14.6 µg/kg | terrestrial organisms | soil | short-term (single instance) |
| Proprietary Terpene Ester | PNEC | 0.004 mg/l | aquatic organisms | freshwater | short-term (single instance) |
| Proprietary Terpene Ester | PNEC | 0 mg/l | aquatic organisms | marine water | short-term (single instance) |
| Proprietary Terpene Ester | PNEC | 1 mg/l | aquatic organisms | sewage treatment plant (STP) | short-term (single instance) |
| Proprietary Terpene Ester | PNEC | 0.144 mg/kg | aquatic organisms | freshwater sediment | short-term (single instance) |
| Proprietary Terpene Ester | PNEC | 0.014 mg/kg | aquatic organisms | marine sediment | short-term (single instance) |
| Proprietary Terpene Ester | PNEC | 0.026 mg/kg | terrestrial organisms | soil | short-term (single instance) |

8.2 Exposure controls

Appropriate engineering controls

General ventilation.

Individual protection measures (personal protective equipment)

Eye/face protection

Wear eye/face protection.

Skin protection

- Hand protection

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

- 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.

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

| | |
|----------------|-----------------------|
| Physical state | liquid |
| Color | |
| 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 | 133 °C at 103 kPa |
| Flash point | 28 °C at 1,013 mbar |
| Evaporation rate | Not determined |
| Flammability (solid, gas) | not relevant, (fluid) |
| Vapor pressure | 11.73 mbar 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 | 237 °C |
| Viscosity | not determined |
| Explosive properties | none |
| Oxidizing properties | none |

| | |
|------------------------------|------------------------------------|
| 9.2 Other information | there is no additional information |
|------------------------------|------------------------------------|

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SECTION 10: Stability and reactivity

10.1 Reactivity

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

If heated:

Risk of ignition

10.2 Chemical stability

See below "Conditions to avoid".

10.3 Possibility of hazardous reactions

No known hazardous reactions.

10.4 Conditions to avoid

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

Hints to prevent fire or explosion

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

10.5 Incompatible materials

Oxidizers

10.6 Hazardous decomposition products

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

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Test data are not available for the complete mixture.

Classification procedure

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

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

Acute toxicity

Harmful if swallowed.

- Acute toxicity estimate (ATE)

Oral 1,042 mg/kg

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

Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/eye irritation

Causes serious eye irritation.

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Respiratory or skin sensitization

May cause an allergic skin reaction.

Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

Carcinogenicity

Shall not be classified as carcinogenic.

Reproductive toxicity

Shall not be classified as a reproductive toxicant.

Specific target organ toxicity - single exposure

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

Specific target organ toxicity - repeated exposure

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

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.

| Aquatic toxicity (acute) of components | | | | |
|--|----------|------------|-----------------------|---------------|
| Other names or synonyms | Endpoint | Value | Species | Exposure time |
| 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 Monoterpenic Alcohol | LC50 | >82 mg/l | fish | 96 h |
| Proprietary Monoterpenic Alcohol | EC50 | 10 mg/l | aquatic invertebrates | 48 h |
| Proprietary Monoterpenic Alcohol | ErC50 | >11 µg/l | algae | 72 h |
| Proprietary Alcohol | LC50 | >100 mg/l | fish | 96 h |
| Proprietary Alcohol | EC50 | >100 mg/l | aquatic invertebrates | 48 h |
| Proprietary Alcohol | ErC50 | >76 mg/l | algae | 72 h |
| Proprietary Sesquiterpenic Alcohol | LC50 | 1.43 mg/l | fish | 96 h |
| Proprietary Sesquiterpenic Alcohol | EC50 | 510.3 µg/l | aquatic invertebrates | 48 h |

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| Aquatic toxicity (acute) of components | | | | |
|--|----------|-----------|-----------------------|---------------|
| Other names or synonyms | Endpoint | Value | Species | Exposure time |
| Proprietary Sesquiterpenic Alcohol | ErC50 | 2 mg/l | algae | 72 h |
| Proprietary Ester | LC50 | 6.74 mg/l | fish | 96 h |
| Proprietary Ester | EC50 | 56 mg/l | aquatic invertebrates | 24 h |
| Proprietary Ester | ErC50 | 11.8 mg/l | algae | 72 h |
| Proprietary fatty acid ethyl ester | LC50 | 8.45 mg/l | fish | 96 h |
| Proprietary fatty acid ethyl ester | ErC50 | 124 mg/l | algae | 72 h |
| Proprietary fatty acid ethyl ester | EC50 | 75.3 mg/l | algae | 72 h |
| Proprietary Terpene Ester | EC50 | 9.1 mg/l | aquatic invertebrates | 48 h |
| Proprietary Terpene Ester | ErC50 | 12 mg/l | algae | 72 h |

| Aquatic toxicity (chronic) of components | | | | |
|--|----------|-------------|----------------|---------------|
| Other names or synonyms | Endpoint | Value | Species | Exposure time |
| Proprietary Monoterpenic Alcohol | EC50 | >100 mg/l | microorganisms | 30 min |
| Proprietary Sesquiterpenic Alcohol | EC50 | >1,000 mg/l | microorganisms | 30 min |
| Proprietary Terpene Ester | EC50 | 1,000 mg/l | microorganisms | 30 min |

12.2 Persistence and degradability

Data are not available.

12.3 Bioaccumulative potential

Data are not available.

12.4 Mobility in soil

Data are not available.

12.5 Results of PBT and vPvB assessment

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

12.6 Endocrine disrupting properties

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

12.7 Other adverse effects

Data are not available.

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SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste treatment-relevant information

Solvent reclamation/regeneration.

Sewage disposal-relevant information

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

Waste treatment of containers/packages

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

Remarks

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

SECTION 14: Transport information

14.1 UN number

| | |
|-----------|---------|
| DOT | UN 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) | Ethyl 2-Methyl Butyrate, cis-3-Hexenol |

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-Bisabolol |

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

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acc. to 29 CFR 1910.1200 App D

Green Apple

Version number: GHS 1.0

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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: Ethyl 2-Methyl Butyrate, cis-3-Hexenol), 3, III, environmentally hazardous |
| Reportable quantity (RQ) | 844,595 lbs (383,446 kg) (isopentyl acetate) |
| 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 |

International Maritime Dangerous Goods Code (IMDG) - Additional information

| | |
|------------------|--|
| Marine pollutant | yes (hazardous to the aquatic environment) (Alpha-Bisabolol) |
| 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, <u>S-E</u> |
| 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) 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

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Clean Air Act

none of the ingredients are listed

Right to Know Hazardous Substance List

- Hazardous Substance List (NJ-RTK)

| Name of substance | CAS No | Remarks | Classifications |
|-------------------|----------|---------|-----------------|
| Ethyl caproate | 123-66-0 | | F2 |

Legend

F2 Flammable - Second Degree

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

none of the ingredients are listed

Industry or sector specific available guidance(s)

NPCA-HMIS® III

Hazardous Materials Identification System. American Coatings Association.

| Category | Rating | Description |
|---------------------|--------|--|
| Chronic | / | none |
| Health | 2 | temporary or minor injury may occur |
| Flammability | 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 | | |

National inventories

| Country | Inventory | Status |
|---------|-----------|--------------------------------|
| US | TSCA | not all ingredients are listed |

Legend

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

Abbreviations and acronyms

| Abbr. | Descriptions of used abbreviations |
|----------------|--|
| 49 CFR US DOT | 49 CFR U.S. Department of Transportation |
| Acute Tox. | Acute toxicity |
| Asp. Tox. | Aspiration hazard |
| ATE | Acute Toxicity Estimate |
| CAS | Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances) |
| 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 |
| 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 |
| 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 |
| Skin Corr. | Corrosive to skin |
| Skin Irrit. | Irritant to skin |

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| Abbr. | Descriptions of used abbreviations |
|------------|--|
| Skin Sens. | Skin sensitization |
| STOT SE | Specific target organ toxicity - single exposure |
| 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. |
| H320 | Causes eye irritation. |
| H335 | May cause respiratory irritation. |

Disclaimer

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