

SAFETY DATA SHEET

Conforms to Regulation (EC) No. 1907/2006 (REACH)

GREIPFRUIT ESSENTIAL OIL

Issue date: 14-10-2024

Version Nr: 1

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/ MIXTURE AND OF THE COMPANY/ UNDERTAKING

1.1. Product identifier

Name: **Greipfruit essential oil**

Registration number (REACH): 01-2120119763-56-0025

EC number: 289-904-6

CAS number: 90045-43-5, 8016-20-4

1.2. Relevant identified uses of the substance or mixture and uses recommended

Relevant identified uses: Professional use

Uses advised against: The product is not intended for consumer use.

1.3. Details of the supplier of the safety data sheet

Company: UAB Saflora

Naugarduko g. 102

Vilnius, LT-03160, Lithuania

Phone: +37062959500 e-mail: info@sapolita.lt

www.sapolita.lt

1.4. Emergency telephone number

Poisoning and Drug information Center: +370 5 236 20 50

SECTION 2: HAZARD IDENTIFICATION

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) 1272/2008 (Hazard class and category, hazard statement)

Flam. Liq. 3, H226

Skin Irrit. 2, H315

Skin Sens. 1, H317

Asp. Tox. 1, H304

Aquatic Chronic 2, H411

2.2. Label elements

The product is classified and labelled according to the CLP regulation.

Symbols:



GHS02



GHS07



GHS08



GHS09

Signal word: Danger

Hazard statements:

- H226 - Flammable liquid and vapour.
- H304 - May be fatal if swallowed and enters airways.
- H315 - Causes skin irritation.
- H317 - May cause an allergic skin reaction.
- H411 - Toxic to aquatic life with long lasting effects.

Precautionary statements:

- P101 - If medical advice is needed, have product container or label at hand.
- P102 - Keep out of reach of children.
- P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P280 - Wear protective gloves/protective clothing/eye protection/face protection/hearing protection/....
- P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER/doctor.
- P331 - Do NOT induce vomiting.
- P370+P378 - In case of fire: Use sand, carbon dioxide or powder extinguisher to extinguish.
- P403+P235 - Store in a well-ventilated place. Keep cool.
- P405 - Store locked up.
- P501 - Dispose of contents/container in accordance with local/regional/national/international regulations.

2.3. Other hazards:

- Results of PBT and vPvB assessment: according to the results of its assessment, this substance is not a PBT or a vPvB.
- Endocrine disrupting properties: does not contain an endocrine disruptor (ED) at a concentration of $\geq 0,1\%$.

SECTION 3: COMPOSITION / INGREDIENT INFORMATION

3.1. Substances

- d-Limonene CAS 5989-27-5, 68606-81-5; $\geq 90\%$
- Myrcene CAS 123-35-3; 1 – 3%
- alpha-Pinene CAS 80-56-8; $< 1\%$
- beta-Caryophyllene CAS 87-44-5; $< 1\%$
- Linalool CAS 78-70-6; $< 1\%$
- cis-beta-Ocimene CAS 3338-55-4; $< 1\%$
- Citral CAS 5392-40-5; $< 1\%$

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.

Treatment: None

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media: sand, CO₂ or Dry chemical fire extinguisher.
Extinguishing media which must not be used for safety reasons: 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 vapour-air mixture. Solvent vapours 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. Co-ordinate 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 vapours/dust/spray/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. Vapours are heavier than air, spread along floors and form explosive mixtures with air. Vapours may form explosive mixtures with air.

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

7.2. Conditions for safe storage, including any incompatibilities.

Managing of associated risks.

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

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

- Ventilation requirements: use local and general ventilation. Ground/bond container and receiving equipment.

- Packaging compatibilities: only packagings which are approved (e.g. acc. to the Dangerous Goods Regulations) may be used.

7.3. Specific end use(s)

See section 16 for a general overview.

SECTION 8: EXPOSURE CONTROLSPERSONAL PROTECTION

8.1. Control parameters

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

Human health values:

DNEL 31.1 mg/m³ human, inhalatory worker (industry) chronic - systemic effects

DNEL 8.89 mg/kg bw/day human, dermal worker (industry) chronic - systemic effects

Relevant PNECs and other threshold levels:

PNEC 5.4 µg/l aquatic organisms freshwater short-term (single instance)

PNEC 0.54 µg/l aquatic organisms marine water short-term (single instance)

PNEC 2.1 mg/l aquatic organisms sewage treatment plant (STP) short-term (single instance)

PNEC 1.3 mg/kg aquatic organisms freshwater sediment short-term (single instance)

PNEC 0.13 mg/kg aquatic organisms marine sediment short-term (single instance)

PNEC 0.29 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 leaktightness/impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

- Type of material. NBR: acrylonitrile-butadiene rubber.

- Material thickness > 0.7 mm.

- Breakthrough times of the glove material > 10 minutes (permeation: level 1).

- 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.

Filtering half mask (EN 149). Type: A (against organic gases and vapours with a boiling point of > 65 °C, colour code: Brown).

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

Physical state: liquid

Colour: light yellow

Odour: characteristic

Melting point/freezing point: -25 °C

Boiling point or initial boiling point and boiling range: not determined

Flammable liquid in accordance with GHS criteria: Lower and upper explosion limit not determined

Flash point: 44 °C

Auto-ignition temperature: 235 °C

Decomposition temperature: not relevant

pH (value): not determined

Kinematic viscosity: not determined

Solubility(ies): 1101 mg/l at 25 °C (water)

Partition coefficient n-octanol/water (log value): 2.78 – 6.3 (pH value: 7, 25 °C) (ECHA)

Vapour pressure: 195.4 Pa at 25 °C

Density: 0.853 g/cm³

Relative vapour density information on this property is not available

Particle characteristics: not relevant (liquid)

9.2. Other information

Information with regard to physical hazard classes: there is no additional information

Other safety characteristics: there is no additional information

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials". It's a reactive substance. 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

Oxidisers.

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

Acute toxicity: The classification criteria for these hazard classes are not met.

Skin corrosion/irritation: Causes skin irritation.

Serious eye damage/eye irritation: Shall not be classified as seriously damaging to the eye or eye irritant.

Respiratory or skin sensitisation: 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.

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.

11.2. Other toxicological information

There is no additional information.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Toxic to aquatic life with long lasting effects.

Aquatic toxicity (acute):

LL50 5.65 mg/l fish 96 h

EL50 1.4 mg/l aquatic invertebrates 24 h

12.2. Persistence and degradability

Degradability of components:

d-Limonene 5989-27-5, 68606-81-5; carbon dioxide, generation, 58.8 % 14 d [ECHA]

d-Limonene 5989-27-5, 68606-81-5; oxygen depletion, 80 % 28 d [ECHA]

alpha-Pinene 80-56-8; oxygen depletion, 68 % 28 d [ECHA]

Myrcene 123-35-3; oxygen depletion, 76 % 28 d [ECHA]

Linalool 78-70-6; oxygen depletion, 40.9 % 5 d [ECHA]

12.3. Bioaccumulative potential

Bioaccumulative potential of components (Log KOW):

d-Limonene 5989-27-5, 68606-81-5; 4.38 (pH value: 7.2, 37 °C)

beta-Pinene 127-91-3; 4.425 (25 °C)

Citral 5392-40-5; 2.76 (25 °C)

Myrcene 123-35-3; 4.82 (pH value: ~6.5, 30 °C)

beta-Caryophyllene 87-44-5; 6.23 (pH value: 7, 25 °C)

Linalool 78-70-6; 2.9 (pH value: 7, 20 °C)

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.

12.6. 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/packagings: only packagings which are approved (e.g. acc. to the Dangerous Goods Regulations) 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

UN RTDG: UN 1197

IMDG-Code: UN 1197

ICAO-TI UN: 1197

14.2. UN proper shipping name:

UN RTDG EXTRACTS, LIQUID

IMDG-Code EXTRACTS, LIQUID

ICAO-TI Extracts, liquid

14.3. Transport hazard class(es):

UN RTDG: 3

IMDG-Code: 3

ICAO-TI: 3

14.4. Packing Group:

UN RTDG: III

IMDG-Code: III

ICAO-TI: III

14.5. Environmental hazards

Hazardous to the aquatic environment

14.6. Special Precautions for User

There is no additional information.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

The cargo is not intended to be carried in bulk.

Transport information - National regulations - Additional information (UN RTDG)

UN number: 1197

Class: 3

Environmental hazards: yes (hazardous to the aquatic environment)

Packing group: III

Danger label(s) 3, fish and tree

Special provisions (SP) 223 (UN RTDG)

Excepted quantities (EQ) E1 (UN RTDG)

Limited quantities (LQ) 5 L (UN RTDG)

International Maritime Dangerous Goods Code (IMDG) - Additional information

Particulars in the shipper's declaration UN1197, EXTRACTS, LIQUID, (d-Limonene), 3, III, 48°C c.c., MARINE POLLUTANT

Marine pollutant: yes (hazardous to the aquatic environment)

Danger label(s) 3, fish and tree

Special provisions (SP) 223, 955

Excepted quantities (EQ) E1

Limited quantities (LQ) 5 L

EmS F-E, S-D

Stowage category A

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

Particulars in the shipper's declaration UN1197, Extracts, liquid, 3, III

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 regulation/legislation specific for the substance or mixture
There is no additional information.

15.2. Chemical Safety Assessment
No

SECTION 16: OTHER INFORMATION

There is no additional information.

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