

MSDS – Greek Grapefruit Organic Essential Oil

Product Description

Botanical name: Citrus x paradisi	Appearance: Clear, Mobile Liquid
INCI name: Citrus Paradisi Peel Oil	Colour: Yellow-orange to red-orange
Quality: 100% Pure and Natural	Parts used: Peels
Solubility: Soluble in alcohols and fixed oils; insoluble in water	Extraction Method: Cold pressed
Odour: Fresh, zesty, citrus, sweet	Cultivation: Certified organic
Note classification: Top to Middle Note	

Physico-Chemical Data

Specific gravity: 0.852–0.860	Aroma: Conforms to standard
Refractive index: 1.474–1.479	Appearance: Conforms to standard
Optical rotation at 20°C: 91° to 96°	Color: Conforms to standard
Flash point: 66°C	

GC Analysis (GC/FID area % according to normalization method)

Compound	CAS No	%	Chemical Family
Alpha-pinene	80-56-8	0.62	Monoterpene
Beta-pinene	127-91-3	0.09	Monoterpene
Beta-Phellandrene	555-10-2	0.44	Monoterpene
Myrcene	123-35-3	2.04	Monoterpene
Sabinene	3387-41-5	0.37	Monoterpene
Limonene	5989-27-5	93.56	Monoterpene
Neral	106-26-3	0.02	Aldehyde
Decanal	112-31-2	0.22	Aldehyde
Beta-Caryophyllene	87-44-5	0.45	Sesquiterpene
Geranial	141-27-5	0.05	Aldehyde

Product name: Grapefruit Essential Oil	Origin: Greece
Product Type: Essential oil	Date of Production: April 2024
Label Name: Greek Grapefruit Organic Essential Oil	Date of Expiration: April 2027
BATCH No: E1001312	

MSDS – Greek Grapefruit Organic Essential Oil

1.1 Product identifiers

Product name: Grapefruit Essential Oil

Brand: Vessel Essential Oils

CAS-No.: 8016-20-4

1.2 Identified uses

Laboratory chemicals, Manufacture of substances

1.3 Details of the supplier of the safety data sheet

Manufacturer: Vessel Essential Oils, Farmakeika Neo Risio, Greece

Importer / Distributor (EU): AW Nexus Group, ul. Olimpijska 2, 81-538 Gdynia, Poland | NIP: 5881771302 | Tel 786 686 068 | <https://aromapremium.eu/> | kontakt@aromapremium.eu

1.4 Emergency telephone numbers

Emergency telephone numbers (24h): Kraków: +48 12 411 99 99 | Warszawa: +48 22 619 08 97 | Gdańsk: +48 58 682 04 04.
For other EU countries: please contact your local National Poison Control Centre (<https://poisoncentres.echa.europa.eu>).

2.1 Classification

Flammable liquids (Category 4), H227. GHS Classification in accordance with 29 CFR 1910 (OSHA HCS). For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements

Pictogram: none

Signal word: Warning

H227 — Combustible liquid.

P210 — Keep away from heat/sparks/open flames/hot surfaces. No smoking.

P280 — Wear protective gloves/protective clothing/eye protection/face protection.

P370 + P378 — In case of fire: use dry sand, dry chemical or alcohol-resistant foam for extinction.

P403 + P235 — Store in a well-ventilated place. Keep cool.

P501 — Dispose of contents/container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC)

None.

3.1 Substances

CAS-No.: 8016-20-4

Hazardous components

Component	Classification	Concentration
Oils, grapefruit	Flam. Liq. 4; H227	<= 100 %

4.1 Description of first aid measures

General advice: Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

If inhaled: Move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact: Wash off with soap and plenty of water. Consult a physician.

In case of eye contact: Flush eyes with water as a precaution.

If swallowed: Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects

Described in the labelling (see Section 2.2) and/or Section 11.

4.3 Immediate medical attention / special treatment

No data available.

5.1 Extinguishing media

Small fires: alcohol foam, dry chemical, or carbon dioxide. Large fires: apply water from as far as possible in large flooding quantities as mist or spray; solid streams may be ineffective. Cool affected containers with flooding quantities of water.

5.2 Special hazards

No data available.

5.3 Advice for firefighters

Wear self-contained breathing apparatus if necessary.

5.4 Further information

Use water spray to cool unopened containers.

6.1 Personal precautions

Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove sources of ignition. Vapours can accumulate in low areas. See Section 8.

6.2 Environmental precautions

Prevent leakage or spillage entering drains where safe to do so.

6.3 Containment and clean-up

Contain spillage and collect with electrically protected vacuum cleaner or by wet-brushing; place in closed containers for disposal per local regulations (see Section 13).

6.4 Reference to other sections

For disposal, see Section 13.

7.1 Safe handling

Avoid inhalation of vapour or mist. Keep away from ignition sources — no smoking. Prevent build-up of electrostatic charge. See Section 2.2.

7.2 Safe storage

Keep container tightly closed in a dry, well-ventilated place. Reseal opened containers carefully and keep upright to prevent leakage.

7.3 Specific end use(s)

No other specific uses stipulated beyond those in Section 1.2.

8.1 Control parameters

Component	CAS-No.	Value	Control parameters	Basis
Oils, grapefruit	8016-20-4	10.000 mg/m ³	TWA	USA. NIOSH Recommended Exposure Limits
		5.000 mg/m ³	TWA	USA. NIOSH Recommended Exposure Limits

8.2 Exposure controls

Engineering controls: handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at end of workday.

Eye/face protection: safety glasses with side-shields (EN166) or NIOSH-approved equivalent.

Skin protection: handle with inspected gloves; use proper removal technique; dispose per applicable laws.

Body protection: impervious clothing selected per exposure risk.

Respiratory protection: air-purifying respirator with ABEK (EN 14387) cartridges as backup to engineering controls, or full-face supplied-air respirator if sole means of protection.

Environmental exposure: prevent leakage or spillage entering drains.

Appearance: Clear, liquid	Vapour pressure: No data available
Odour: No data available	Vapour density: No data available
Odour Threshold: No data available	Relative density: 0.856 g/cm ³ at 25 °C (77 °F)
pH: No data available	Water solubility: No data available
Melting/freezing point: No data available	Partition coefficient: No data available
Initial boiling point: 198 °C (389 °F), lit.	Auto-ignition temperature: No data available
Flash point: 66 °C (151 °F), closed cup	Decomposition temperature: No data available
Evaporation rate: No data available	Viscosity: No data available
Flammability (solid, gas): No data available	Explosive properties: No data available
Flammability/explosive limits: No data available	Oxidizing properties: No data available

10.1 Reactivity

No data available.

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

No data available.

10.4 Conditions to avoid

Heat, flames and sparks.

10.5 Incompatible materials

No data available.

10.6 Hazardous decomposition products

In the event of fire, see Section 5.

11.1 Information on toxicological effects

Acute toxicity: LD50 Oral – Rat – 4,250 mg/kg. LD50 Dermal – Rabbit – > 5,000 mg/kg. Inhalation: in high concentrations, vapours may irritate the throat and respiratory system and cause coughing.

Skin corrosion/irritation: Skin – Rabbit. Result: mild skin irritation.

Serious eye damage/eye irritation: No data available.

Serious eye damage / sensitisation / mutagenicity: no data available.

Carcinogenicity (IARC / ACGIH / NTP / OSHA): no component present at ≥0.1% is identified as a known, probable, or potential human carcinogen by any of these bodies.

Reproductive toxicity, target organ toxicity (single/repeated), aspiration hazard: no data available.

Additional information: dermatitis possible. To the best of current knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Ecotoxicity, persistence and degradability, bioaccumulative potential, mobility in soil, and other adverse effects: no data available.

PBT/vPvB assessment: not available, as a chemical safety assessment has not been required or conducted.

13.1 Waste treatment methods

Product: this combustible material may be incinerated in a chemical incinerator equipped with an afterburner and scrubber.

Offer surplus and non-recyclable material to a licensed disposal company.

Contaminated packaging: dispose of as unused product.

UN Number: N/A	Packing group: N/A
UN Proper shipping name: N/A	Proper shipping name: Not regulated
Road (U.S. DOT): Not dangerous goods	Poison Inhalation Hazard: No
Air (IATA): Not dangerous goods	Class: NONE
Sea (IMDG): Not dangerous goods	

SARA 302: no chemicals in this material are subject to SARA Title III, Section 302 reporting requirements.

SARA 313: this material contains no chemical components with known CAS numbers exceeding the De Minimis threshold under SARA Title III, Section 313.

SARA 311/312 hazards: fire hazard.

Massachusetts / Pennsylvania / New Jersey Right-to-Know: Oils, grapefruit — CAS-No. 8016-20-4 — Revision Date 2020-08-20.

California Prop. 65: this product does not contain any chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm.

Full text of H-Statements referenced in Sections 2 and 3: Flam. Liq. — Flammable liquids; H227 — Combustible liquid.

HMIS Rating: Health hazard: 1 | Chronic Health Hazard: — | Flammability: 2 | Physical Hazard: 0

NFPA Rating: Health hazard: 0 | Fire Hazard: 2

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