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# MSDS – Greek Petitgrain Organic Essential Oil

### Product Description

| | |
|---|---|
| **Botanical name:** Citrus x aurantium | **Appearance:** Clear, Mobile Liquid |
| **INCI name:** Citrus x Aurantium Oil | **Colour:** Colorless to light Yellow |
| **Quality:** 100% Pure and Natural | **Parts used:** Leaves & Twigs |
| **Solubility:** Soluble in alcohols and fixed oils; insoluble in water | **Extraction Method:** Steam Distilled Essential Oil |
| **Odour:** Fruity, fresh, citrus | **Cultivation:** Certified organic |
| **Note classification:** Top to Middle Note | |

### Physico-Chemical Data

| | |
|---|---|
| **Specific gravity:** 0.882–0.893 | **Aroma:** Conforms to standard |
| **Refractive index:** 1.455–1.463 | **Appearance:** Conforms to standard |
| **Optical rotation at 20°C:** -5° to -1° | **Color:** Conforms to standard |
| **Flash point:** 75°C | |

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

| Compound | CAS No | % | Chemical Family |
|---|---|---|---|
| Beta-Pinene | 127-91-3 | 2.10 | Monoterpene |
| Myrcene | 123-35-3 | 4.80 | Monoterpene |
| Limonene | 5989-27-5 | 5.40 | Monoterpene |
| Trans-beta-Ocimene | 3779-61-1 | 2.20 | Monoterpene |
| Linalool | 78-70-6 | 23.50 | Monoterpenic Alcohol |
| Alpha-Terpineol | 98-55-5 | 5.80 | Monoterpenic Alcohol |
| Linalyl Acetate | 115-95-7 | 44.20 | Monoterpenic Ester |
| Geranial | 5392-40-5 | 0.10 | Aldehyde |
| Geranyl Acetate | 105-87-3 | 3.80 | Monoterpenic Ester |
| Neryl Acetate | 141-12-8 | 2.20 | Monoterpenic Ester |
| Beta-Caryophyllene | 87-44-5 | 1.00 | Sesquiterpene |

| | |
|---|---|
| **Product name:** Petitgrain Essential Oil | **Origin:** Greece |
| **Product Type:** Essential oil | **Date of Production:** July 2024 |
| **Label Name:** Greek Petitgrain Organic Essential Oil | **Date of Expiration:** July 2029 |
| **BATCH No:** E1001353 | |

# MSDS – Greek Petitgrain Organic Essential Oil

**1.1 Product identifiers**
**Product name:** Petitgrain Essential Oil
**Brand:** Vessel Essential Oils
**CAS-No.:** 8016-44-2
**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.:** 8016-44-2
**Hazardous components**

| Component | Classification | Concentration |
|---|---|---|
| Oils, petitgrain | 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, petitgrain | 8016-44-2 | 10.000 mg/m3 | TWA | USA. NIOSH Recommended Exposure Limits |
| | | 5.000 mg/m3 | 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:** 0.889 g/cm³ 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:** 206 °C (402.8 °F), lit. | **Auto-ignition temperature:** No data available |
| **Flash point:** 75 °C (167 °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 – 1,500 mg/kg. Inhalation: LD50: 3 mg/kg.
Skin corrosion/irritation: can induce irritations.
Serious eye damage/eye irritation: can induce irritations.
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, petitgrain — CAS-No. 8016-44-2 — Revision Date 2020-07-13.
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