



SAFETY DATA SHEET (SDS)

Prepared in accordance with the Globally Harmonized System (GHS) and Regulation (EC) No. 1907/2006 (REACH, as amended)

SECTION 1: Identification

Parameter	Details
Product Name	Petitgrain Essential Oil
Alternative Names	Petitgrain Bigarade Oil; Bitter Orange Leaf Oil; Paraguay Petitgrain Oil
Botanical Name	<i>Citrus aurantium</i> L. var. <i>amara</i>
INCI Name	Citrus Aurantium Amara Leaf/Twig Oil
Botanical Family	Rutaceae
Plant Part	Leaves and Young Twigs
Extraction Method	Steam Distillation
Product Type	Natural Essential Oil (Natural Complex Substance)
CAS Number	68916-04-1
Alternative CAS Number	72968-50-4
EC Number	277-143-2
FEMA Number	2855
Physical Form	Liquid
Country of Origin	Paraguay (Representative)

1.2 Relevant Identified Uses

- Professional perfumery
- Fine fragrance manufacture
- Cosmetic fragrance ingredient
- Soap and detergent fragrance
- Home fragrance
- Aromatherapy manufacturing
- Research and development

1.3 Uses Advised Against

- Internal consumption
- Food use unless separately approved
- Medicinal use
- Direct undiluted skin application
- Use by children

1.4 Supplier Details

Aromology Trading LLC
G05 Al Ghazal Building



Nadd Al Hamar
Dubai, United Arab Emirates

Website: www.aromology.com

Email: info@aromology.com

Telephone: +971 505197601

1.5 Emergency Telephone Number

Contact the nearest Poison Centre or emergency medical service.

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification (Representative)

Hazard Class	Category	Hazard Statement
Skin Irritation	Category 2	H315
Serious Eye Damage	Category 1	H318
Skin Sensitisation	Category 1	H317
Aspiration Hazard	Category 1	H304
Aquatic Chronic	Category 2	H411

Representative commercial SDSs for CAS 68916-04-1 consistently classify Petitgrain Essential Oil as a skin irritant, skin sensitiser, aspiration hazard and environmentally hazardous; some suppliers additionally classify certain grades as Flammable Liquid Category 3 depending on measured flash point.

2.2 Label Elements

Signal Word: Danger

Hazard Statements

- H304 May be fatal if swallowed and enters airways.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.
- H411 Toxic to aquatic life with long lasting effects.

Precautionary Statements

P261, P264, P272, P273, P280, P301+P310, P331, P302+P352, P333+P313, P305+P351+P338, P310, P391, P405 and P501.

2.3 Other Hazards



- Oxidation products may increase skin sensitisation.
- Vapours may irritate sensitive individuals.
- Spilled material presents a slipping hazard.
- Composition naturally varies between production batches.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substance

Component	CAS	Content
Petitgrain Essential Oil	68916-04-1	100%

3.2 Representative Natural Constituents

Constituent	Typical Range
Linalyl Acetate	35–60%
Linalool	15–30%
α -Terpineol	1–6%
Geranyl Acetate	1–5%
Neryl Acetate	1–4%
Limonene	1–5%
β -Pinene	Trace–3%
Myrcene	Trace–3%
Geraniol	Trace–2%
Nerol	Trace–2%
Other Natural Constituents	Balance

Batch composition should be confirmed by GC/MS.

SECTION 4: FIRST-AID MEASURES

Inhalation

Move the affected person to fresh air. Seek medical advice if symptoms persist.

Skin Contact

Wash thoroughly with soap and water. Remove contaminated clothing. Obtain medical advice if irritation or sensitisation develops.

Eye Contact



Immediately rinse cautiously with water for at least 15 minutes. Remove contact lenses where possible. Obtain immediate medical attention.

Ingestion

Do **not** induce vomiting.

Immediately contact a Poison Centre or physician.

Aspiration into the lungs may result in chemical pneumonitis.

SECTION 5: FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

- Alcohol-resistant foam
- Carbon dioxide
- Dry chemical powder
- Water fog

Unsuitable Media

High-pressure water jet.

Hazardous Combustion Products

- Carbon monoxide
- Carbon dioxide
- Irritating smoke
- Organic decomposition vapours

Firefighters should wear self-contained breathing apparatus.

SECTION 6: ACCIDENTAL RELEASE MEASURES

- Remove ignition sources.
 - Ensure adequate ventilation.
 - Wear suitable PPE.
 - Prevent release into drains and waterways.
 - Absorb with sand, vermiculite or inert absorbent.
 - Collect into approved waste containers.
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SECTION 7: HANDLING AND STORAGE

Handling

- Avoid inhalation of vapours.
- Avoid prolonged skin and eye contact.
- Maintain good industrial hygiene.
- Keep away from oxidising agents.

Storage

Store:

- Between 5–20°C
 - In tightly sealed containers
 - Protected from sunlight
 - Away from heat
 - In a cool, dry, well-ventilated location
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SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls

Provide adequate local exhaust ventilation.

Eye Protection

Chemical safety goggles.

Hand Protection

Nitrile gloves.

Skin Protection

Protective clothing.

Respiratory Protection

Organic vapour respirator where ventilation is inadequate.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Property	Representative Value
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Appearance	Clear pale yellow liquid
Odour	Fresh, green, citrus-floral
Density (20 °C)	0.875–0.895
Refractive Index (20 °C)	1.455–1.468
Optical Rotation	–5° to +2°
Flash Point	Approximately 58–65 °C
Solubility	Insoluble in water; soluble in ethanol

Values are representative only; batch-specific COA values take precedence.

SECTION 10: STABILITY AND REACTIVITY

Stable under recommended storage conditions.

Avoid:

- Heat
- Flames
- Oxidising agents
- Prolonged exposure to air and light

Hazardous decomposition products include carbon monoxide, carbon dioxide and irritating organic fumes.

SECTION 11: TOXICOLOGICAL INFORMATION

Representative hazards include:

- Skin irritation
- Serious eye damage
- Skin sensitisation
- Aspiration hazard following ingestion

Naturally occurring linalool, limonene, geraniol and oxidation products may contribute to sensitisation.

SECTION 12: ECOLOGICAL INFORMATION

- Toxic to aquatic life with long-lasting effects.



- Avoid environmental release.
- Poor water solubility.
- Lipophilic constituents may bioaccumulate.

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of product and contaminated packaging through authorised chemical waste contractors.

Do not discharge into drains or waterways.

SECTION 14: TRANSPORT INFORMATION

Parameter	Value
UN Number	UN 3082
Proper Shipping Name	Environmentally Hazardous Substance, Liquid, N.O.S.
Hazard Class	9
Packing Group	III
Marine Pollutant	Yes

Transport classification should always be verified using the manufacturer's current SDS and measured flash point.

SECTION 15: REGULATORY INFORMATION

Prepared with reference to:

- REACH Regulation (EC) 1907/2006
- Regulation (EU) 2020/878
- CLP Regulation (EC) 1272/2008
- Cosmetic Regulation (EC) 1223/2009
- Current IFRA Standards
- ADR / IMDG / IATA Dangerous Goods Regulations

SECTION 16: OTHER INFORMATION

Shelf Life



24 months under recommended storage conditions.

DISCLAIMER

This Safety Data Sheet has been prepared using representative information for Petitgrain Essential Oil (CAS 68916-04-1) obtained by steam distillation of the leaves and twigs of *Citrus aurantium* var. *amara*. As a Natural Complex Substance, the composition, flash point, physical characteristics and hazard classification may vary with geographical origin, harvest, storage and production batch. Batch-specific manufacturer documentation, including the SDS, Certificate of Analysis, GC/MS report, IFRA Certificate and EU Allergen Declaration, shall take precedence where available.

This product is supplied exclusively as a professional perfumery raw material and is not intended for internal consumption.

AUTHORISED BY

Fozia Khot
Director
Aromology Trading LLC