

SAFETY DATA SHEET

EC Regulation No.1907/2006 (REACH) & 1272/2008 (CLP)

THIS PRODUCT IS FOR EXTERNAL USE ONLY- DO NOT INGEST

1 IDENTIFICATION OF SUBSTANCE/MIXTURE AND OF THE COMPANY

1.1 Product identifier

Commercial Name: PETITGRAIN OIL
INCI Name: CITRUS AURANTIUM AMARA LEAF/TWIG OIL
CAS No: 72968-50-4
EINECS No: 277-143-2
TSCA CAS No: 68916-04-1
FEMA: 2855
Chemical Name:
Botanical Name: *Citrus aurantium v. amara*
Origin: Paraguay

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified use (s): Essential Oil. Perfume/fragrance material for manufacturing purposes only.

1.3 Details of the supplier of the safety data sheet

Company Name: BAY HOUSE INGREDIENTS
Contact: JOHN BLACK
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2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

According to the current IFRA/ IOFI 2021 Labelling Manual and Regulation (EC) No. 1272/2008 (CLP)

Hazard Class	Abbreviation	Hazard Category	Hazard Code	Hazard Statement
Flammable Liquid	FL	4	H227	Combustible liquid
Aspiration Hazard	AH	1	H304	Maybe fatal if swallowed and enters airways
Skin Corrosion/Irritation	SCI	2	H315	Causes skin irritation
Skin Sensitisation	SS	1	H317	May cause an allergic skin reaction
Eye Damage/Irritation	EDI	1	H318	Causes serious eye damage
Environmental Acute	EHA	2	H401	Toxic to aquatic life
Environmental Chronic	EHC	2	H411	Toxic to aquatic life with long lasting effects

2.2 Label elements

Symbols:



Signal word: DANGER

UN Global Harmonised System Precautionary Statements (CLP)

	Prevention Statements
P210	Keep away from heat/sparks/open flames/hot surface. No smoking
P280	Wear protective gloves/clothing, eye/face protection
P264	Wash hands thoroughly after handling
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment
P280	Wear protective gloves/clothing, eye/face protection
P264	Wash hands thoroughly after handling
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment



	Response Statements
P303/361	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing.
P302/352	IF ON SKIN: Wash with plenty of soap and water.
P301/310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P333/313	If skin irritation or rash occurs: Get medical advice/attention.
P321/363	Protective clothing should be washed before reuse
P331	Do NOT induce vomiting.
P332/313	If skin irritation occurs: Get medical advice/attention
P362	Take off contaminated clothing and wash before reuse.
P353	Rinse skin with water/shower.
P305	IF IN EYES: Rinse cautiously with water for several minutes.
P351/338	Remove contact lenses if present and easy to do. Continue rinsing.
P337/313	If eye irritation persists: get medical advice/attention
P370/378	In case of fire: Use carbon dioxide, foam or dry powder for extinction.
P312	Call a POISON CENTER or doctor/physician if you feel unwell.
P391	Collect spillage

	Storage and Disposal Statements
P403	Store in a well ventilated place.
P235	Keep cool
P501	Dispose of contents and container in accordance with international regulation

3. COMPOSITION/INFORMATION ON CONSTITUENTS**3.1 Nature Of Product** PETITGRAIN OIL (100% Pure & Natural)

Citrus Aurantium Amara Leaf/Twig Oil (Petitgrain) is the volatile oil obtained from the leaves and twigs of the Bitter Orange, Citrus aurantium L. var. amara L.

EINECS No: 277-143-2
FEMA: 2855

CAS No: 72968-50-4
FDA:

TSCA CAS No: 68916-04-1
HC (%): <10

3.2 Constituents

These indicative levels should be taken into account when determining the compliance of the essential oil under its condition of use. (In accordance with Regulation (EC) No 1272/2008 and IFRA/IOFI Labelling Manual 2021 Classified constituents $\geq 0.1\%$, no Aspiration hazard & Flammability)

CONSTITUENT	CAS NUMBER	<= %	RELEVANT GHS
2-(Tetrahydro-5-methyl-5-vinyl-2-furyl)propan-2-ol	60047-17-8	0.5	Skin Irrit. 3;H316 Eye Irrit. 2A;H319 Acute Tox. 5 (Dermal);H313 Acute Tox. 4 (Oral);H302
4-Carvomenthenol	562-74-3	0.15	Acute Tox. 4 (Oral);H302 Acute Tox. 5 (Dermal);H313 Skin Irrit. 2;H315 Eye Irrit. 2A;H319 Aquatic Acute 3;H402
alpha-Pinene	80-56-8	0.2	Acute Tox. 4 (Oral);H302 Skin Irrit. 2;H315 Skin Sens. 1B;H317 Aquatic Acute 1;H400 Aquatic Chronic 1;H410
alpha-Terpineol	98-55-5	5.5	Acute Tox. 5 (Oral);H303 Skin Irrit. 2;H315 Eye Irrit. 2A;H319 Aquatic Acute 2;H401
alpha-Terpineol acetate	80-26-2	0.12	Skin Irrit. 3;H316 Aquatic Acute 2;H401
beta-Caryophyllene	87-44-5	0.7	Skin Sens. 1B;H317 Aquatic Chronic 4;H413
beta-Pinene	127-91-3	1.2	Skin Irrit. 2;H315 Skin Sens. 1B;H317 Aquatic Acute 1;H400 Aquatic Chronic 1;H410
Caryophyllene oxide	1139-30-6	0.1	Skin Irrit. 3;H316 Aquatic Acute 2;H401 Aquatic Chronic 2;H411
cis-beta-Ocimene	3338-55-4	0.8	Acute Tox. 5 (Oral);H303 Skin Irrit. 2;H315 Aquatic Acute 1;H400 Aquatic Chronic 2;H411
delta-3-Carene	13466-78-9	0.4	Skin Sens. 1;H317 Skin Irrit. 2;H315 Aquatic Chronic 1;H410 Aquatic Acute 1;H400 Acute Tox. 5 (Oral);H303 Acute Tox. 4 (Inhalation:dust,mist);H332
Geranial	141-27-5	0.26	Acute Tox. 5 (Dermal);H313 Skin Irrit. 2;H315 Eye Irrit. 2A;H319 Skin Sens. 1B;H317 Aquatic Acute 2;H401

3. COMPOSITION/INFORMATION ON CONSTITUENTS

3.2 Constituents

CONSTITUENT	CAS NUMBER	<= %	RELEVANT GHS
Geraniol	106-24-1	3.0	Skin Sens. 1B;H317 Skin Irrit. 2;H315 Eye Dam. 1;H318 Aquatic Acute 3;H402 Acute Tox. 5 (Oral);H303
Geranyl acetate	105-87-3	3.9	Skin Sens. 1B;H317 Skin Irrit. 2;H315 Aquatic Chronic 3;H412 Aquatic Acute 2;H401
Linalool	78-70-6	35.0	Acute Tox. 5 (Oral);H303 Skin Irrit. 2;H315 Eye Irrit. 2A;H319 Skin Sens. 1B;H317 Aquatic Acute 3;H402
Linalyl acetate	115-95-7	50.0	Skin Irrit. 2;H315 Eye Irrit. 2B;H320 Skin Sens. 1B;H317 Aquatic Acute 3;H402
l-Limonene	5989-54-8	2.0	Skin Irrit. 2;H315 Skin Sens. 1B;H317 Aquatic Acute 1;H400 Aquatic Chronic 1;H410
Myrcene	123-35-3	2.3	Skin Irrit. 2;H315 Eye Irrit. 2A;H319 Aquatic Acute 1;H400 Aquatic Chronic 2;H411
Neral	106-26-3	0.11	Acute Tox. 5 (Dermal);H313 Skin Irrit. 2;H315 Eye Irrit. 2A;H319 Skin Sens. 1B;H317 Aquatic Acute 2;H401
Nerol	106-25-2	1.2	Acute Tox. 5 (Oral);H303 Skin Irrit. 2;H315 Eye Irrit. 2A;H319 Skin Sens. 1B;H317 Aquatic Acute 2;H401
Neryl acetate	141-12-8	2.3	Skin Sens. 1B;H317 Aquatic Acute 2;H401
p-Cymene	99-87-6	0.1	Skin Irrit. 3;H316 Repr. 2;H361 Aquatic Chronic 2;H411 Aquatic Acute 2;H401 Acute Tox. 5 (Oral);H303
Terpinolene	586-62-9	0.5	Skin Sens. 1B;H317 Skin Irrit. 3;H316 Aquatic Chronic 1;H410 Aquatic Acute 1;H400 Acute Tox. 5 (Oral);H303
trans beta-Ocimene	3779-61-1	2.5	Acute Tox. 5 (Oral);H303 Skin Irrit. 2;H315 Aquatic Acute 1;H400 Aquatic Chronic 2;H411

Allergen Constituents Information (7th Amendment Cosmetic Directive 76/768/EEC):

Batch analysis may show levels different to those indicated above, where this is available batch specific analyzed levels can then be used .instead of the indicative levels.

4. FIRST AID MEASURES

4.1 Description of first aid measures

- Ingestion:** Do not induce vomiting, give a glass of water. Seek urgent medical attention and show this information.
- Inhalation:** Remove casualty to fresh air, keep respiratory passages clear and seek urgent medical attention.
- Eye contact:** Irrigate with sterile water or saline for at least 15 minutes. Seek urgent medical attention if irritation persists or tissue damage is apparent.
- Skin contact:** Remove contaminated clothing wash thoroughly with soap and water and rinse. If causes irritation after prolonged contact, if so seek medical advice.

5. FIRE-FIGHTING MEASURES

- 5.1 Extinguisher** Use CO₂, Foam or Powder extinguishers only.
DO NOT USE WATER JETS.
- 5.2 Special hazards** Avoid inhalation of smoke or fumes, may produce CO (carbon monoxide) and CO₂ (carbon dioxide).

6. ACCIDENTAL RELEASE MEASURES

- 6.1 Personal Safety Precautions** Avoid contact with skin and eyes. Wear safety gloves, clothing and glasses.
(Consult sections 7 & 8 for additional information)
- 6.2 Environmental Safety Precautions** Eliminate all sources of ignition.
Prevent any material entering drains or waterways
- 6.2 Methods and materials for containment and clean up** Absorb spills into an inert absorbent material (e.g. proprietary oil drying granules or sand NOT sawdust or other flammable materials.)
Wash area clean with water and detergent.
Transfer all waste to an approved waste disposal container, observing national legislation.

7. HANDLING AND STORAGE

- 7.1 Handling Precautions** Only use in a well ventilated area. Observe good housekeeping procedures when handling the product. Do not eat, drink or smoke.
- 7.2 Storage Precautions** Product is stable at room temperature.
Keep away from sources of ignition.
Store in tightly sealed containers, in a cool dry place away from direct sunlight.
Prevent access by unauthorised personnel.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Ingredient comments: No exposure limits known

8.2 Exposure controls

- Respiratory Protection:** Ensure adequate ventilation.
If ventilation is insufficient use approved respirators.
- Skin/Hand Protection:** Wear personal protective equipment. Use chemical resistant safety gloves.
Polyvinyl alcohol or nitrile rubber gloves are recommended.
- Eye/Face Protection:** Wear safety glasses/visors. Ensure eye washes are available.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance:	Liquid
Colour:	Light yellow
Odour:	Earthy citrus odour
Odour threshold:	No information available
pH:	No information available
Melting point:	No information available
Initial boiling point and range:	No information available
Flash point:	74°C
Evaporation rate:	No information available
Evaporation factor:	No information available
Flammability (solid, gas):	No information available
Upper flammability or explosive limits:	No information available
Lower flammability or explosive limits:	No information available
Other flammability:	No information available
Vapour pressure:	No information available
Vapour density:	No information available
Relative density@ 20°C:	0.886 - 0.904
Bulk density:	No information available
Solubility(ies):	No information available
Partition coefficient:	No information available
Auto-ignition temperature:	No information available
Decomposition Temperature:	No information available
Viscosity:	No information available
Explosive properties:	No information available
Explosive under influence of a flame:	No information available
Oxidising properties:	No information available

9.2. Other information

Refractive index@ 20°C:	1.454 -1.464
Particle size:	No information available.
Molecular weight:	No information available.

10. STABILITY AND REACTIVITY

10.1. Reactivity	There are no known reactivity hazards associated with this product.
10.2. Chemical stability	Stable at normal ambient temperatures and when used as recommended.
10.3. Possibility of hazardous reactions	Will not polymerise.
10.4. Conditions to avoid	Keep away from any source of ignition.
10.5. Incompatible materials	Avoid strong oxidisers, acids and alkalis.
10.6. Hazardous decomposition products	Decomposition may release carbon dioxide, carbon monoxide and other organic compound fumes.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Oral LD50: 5.0g/Kg
Dermal LD50: 5.0g/Kg

This product is NOT intended for oral use.

LD50 dosage levels are only a guideline obtained from historical data, Bay House Ingredients does not test its products on animals.

78-70-6	Linalool	Oral, LD50: 2790 mg/kg (rat)	Dermal, LD50: 5610 mg/kg (Rabbit)
98-55-5	p-menth-1-en-8-ol	Oral, LD50: 4300 mg/kg (rat)	
105-87-3	Geranyl acetate	Oral, LD50: >4000 mg/kg (rat) (NTP 1987)	
87-44-5	beta-Caryophyllene	Oral, LD50: > 5000 mg/kg (rat) (Hart and Wong 1971)	
13466-78-9	delta-3-Carene	Oral, LD50: 4800 mg/kg (rat) (Moreno 1975)	
5989-27-5	(R)-p-mentha-1,8-diene	Oral, LD50: 4400 mg/kg (rat)	
5392-40-5	Citral	Oral, LD50: 4960 mg/kg (rat)	
7212-44-4	Nerolidol (isomer unspecified)	Oral, LD50: >5000 mg/kg (rat) (RIFM 1973)	
		Oral, LD50: 9626 mg/kg (mouse) (RIFM 1967)	
		Dermal, LD50: >5000 mg/kg (Rabbit) (RIFM 1973)	

Skin corrosion/irritation:	Causes skin irritation
Serious eye damage/irritation:	Causes serious eye damage
Respiratory sensitisation:	May be fatal if swallowed and enters airways
Skin sensitisation:	May cause an allergic skin reaction
Germ cell mutagenicity:	No information available
Carcinogenicity:	No information available

11.2 Information on other hazards

Endocrine disrupting properties : No information available

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Aquatic toxicity:

72968-50-4	Citrus aurantium L. ssp. amara	CE50/48h: 7,5 mg/l (daphnia) (QSAR Kreatis (OECD Guideline 202) -2017)
		ErC50(0-72h): 9,7 mg/l (algae) (QSAR Kreatis (OECD Guideline 201) -2017)
115-95-7	Linalyl acetate	ErC50(0-72h): 9,6 mg/l (algae) (RIFM 2015)
		ErC50(0-48h): 15 mg/l (daphnia) (RIFM 2015)
		96h-LC50: 11 mg/l (fish) (RIFM 1998)
78-70-6	Linalool	LD50: 27,8 mg/l (fish) ((OECD 203) RIFM 1991)
		ErC50(0-72h): 156,7 mg/l (algae)
		ErC50(0-48h): 59 mg/l (daphnia) ((OECD 202)
123-35-3	Myrcene	LD50: 0,51 mg/l (fish) (OECD 203)
		CE50/48h: 0,65 mg/l (daphnia)
5989-27-5	(R)-p-mentha-1,8-diene	LD50: 0,71 mg/l (fish) (OECD 203)

12.2 Persistence and degradability No information available

12.3 Bioaccumulative potential Toxic to aquatic organisms. Harmful to the environment

12.4 Mobility in soil No information available

12.5 Results of PBT and vPvB assessment No information available

12.6 Endocrine disrupting properties No information available

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Do not pour into drains or waterways.
Care must be used to prevent the product contaminating rivers, waterways or drains. Should this happen alert the relevant authorities in accordance with statutory procedures

Comply with local and national regulations for waste disposal.
Empty containers should be washed thoroughly with detergent before being sent for disposal.
Washings should be disposed of as waste.

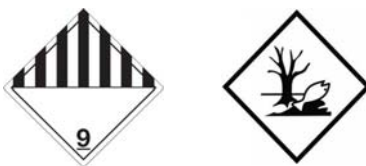
14. TRANSPORT INFORMATION

Transport this product in compliance with and provision of, the ADR/RID for Road and Rail, IMDG for Sea and ICAO/IATA for Air transportation.

UN Shipping Name (N.O.S.): UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID
ADR/RID (Road/Rail): Class 9
IMDG/IMO (Sea): Class 9
ICAO/IATA (Air): Class 9
UN Number: 3082
Packing Group: III
Subsidiary Risk:
Packing Instructions: Miscellaneous dangerous substances and articles, transport in suitable container.

Labelling according to ADR/RID, IMDG/IMO and ICAO/IATA:

UN Shipping Name: UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID



15. REGULATORY INFORMATION

Product Classification: PETITGRAIN OIL

This product is labelled according to the criteria of Directive CLP 1272/2008/EC.

Classification:



DANGER
UN 3082

Hazard Categories:

FL 4	Combustible liquid
AH 1	Maybe fatal if swallowed and enters airways
SCI 2	Causes skin reaction
SS 1	May cause an allergic skin reaction
EDI 1	Causes serious eye damage
EH A2, C2	Toxic to aquatic life Toxic to aquatic life with long lasting effects.

16. ADDITIONAL INFORMATION

Legal disclaimer:

The information given on this material health and safety sheet is not a warranty as to the performance or suitability of the product. The information must be regarded only as a description of the health, safety and environmental requirements for that product. The information contained herein is true and accurate to the best of our knowledge and belief, but does not claim to be all inclusive. Bay House Ingredients is a Division of Aroma Trading Ltd, Registered No. 02698381, V.A.T. Registration No. 600 516 981 and as such, shall not be held liable for any damage resulting from handling or from contact with the product, since the conditions of use are out of our control. It is the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations.