Bay House INGREDIENTS

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: LEMONGRASS COCHIN OIL
INCI Name: CYMBOPOGON FLEXUOSUS LEAF OIL
CAS No: 91844-92-7
EINECS No: 295-161-9
TSCA CAS No: 8007-02-1
FEMA: 2624
Chemical Name:
Botanical Name: *Cymbopogon flexuosus*
Origin: India / Nepal

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
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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
Skin Corrosion/Irritation	SCI	2	H315	Causes skin irritation
Eye Damage/Irritation	EDI	1	H318	Causes serious eye damage
Skin Sensitization	SS	1	H317	May cause an allergic skin reaction
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:

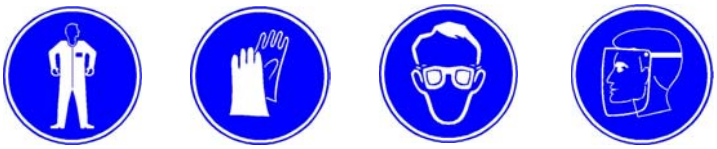


Signal word: DANGER

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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



	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

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3. COMPOSITION/INFORMATION ON CONSTITUENTS

3.1 Nature Of Product LEMONGRASS OIL (100% Pure & Natural)

"Lemon Grass Oil; Indian Verbena Oil; Indian Melissa Oil". Cymbopogon Flexuosus Herb Oil is an essential oil obtained from the herbs of the Lemon Grass, Cymbopogon flexuosus, Gramineae

EINECS No: 295-161-9 **CAS No:** 91844-92-7 **TSCA CAS No:** 8007-02-1
FEMA: 2624 **FDA:** **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 ≥0.1%, no Aspiration hazard & Flammability)

CONSTITUENT	CAS NUMBER	<= %	RELEVANT GHS
4-Carvomenthenol	562-74-3	0.3	Acute Tox. 4 (Oral);H302|Acute Tox. 5 (Dermal);H313|Skin Irrit. 2;H315|Eye Irrit. 2A;H319|Aquatic Acute 3;H402
4-Nonanone	4485-09-0	0.9	Skin Irrit. 3;H316|Eye Irrit. 2A;H319
6-Methyl-5-hepten-2-one	110-93-0	2.5	Acute Tox. 5 (Oral);H303|Aquatic Acute 3;H402
alpha-Pinene	80-56-8	1.0	Acute Tox. 4 (Oral);H302|Skin Irrit. 2;H315|Skin Sens. 1B;H317|Aquatic Acute 1;H400|Aquatic Chronic 1;H410
beta-Caryophyllene	87-44-5	4.0	Skin Sens. 1B;H317|Aquatic Chronic 4;H413
beta-Pinene	127-91-3	0.5	Skin Irrit. 2;H315|Skin Sens. 1B;H317|Aquatic Acute 1;H400|Aquatic Chronic 1;H410
Borneol	507-70-0	0.4	Skin Irrit. 2;H315|Aquatic Chronic 2;H411|Aquatic Acute 2;H401|Acute Tox. 5 (Oral);H303
Camphene	79-92-5	2.0	Eye Irrit. 2B;H320|Aquatic Acute 1;H400|Aquatic Chronic 1;H410
Caryophyllene oxide	1139-30-6	0.4	Skin Irrit. 3;H316|Aquatic Acute 2;H401|Aquatic Chronic 2;H411
cis-beta-Ocimene	3338-55-4	0.4	Acute Tox. 5 (Oral);H303|Skin Irrit. 2;H315|Aquatic Acute 1;H400|Aquatic Chronic 2;H411
Citronellal	106-23-0	0.7	Acute Tox. 5 (Oral);H303|Acute Tox. 5 (Dermal);H313|Skin Irrit. 2;H315|Eye Irrit. 2A;H319|Skin Sens. 1B;H317|Aquatic Acute 2;H401
Decanal	112-31-2	0.25	Skin Irrit. 3;H316|Eye Irrit. 2A;H319|Aquatic Chronic 3;H412|Aquatic Acute 2;H401
dl-Citronellol	106-22-9	0.2	Acute Tox. 5 (Oral);H303|Acute Tox. 5 (Dermal);H313|Skin Irrit. 2;H315|Eye Irrit. 2A;H319|Skin Sens. 1B;H317|Aquatic Acute 2;H401
Eugenol	97-53-0	1.0	Acute Tox. 5 (Oral);H303|Skin Irrit. 3;H316|Eye Irrit. 2A;H319|Skin Sens. 1B;H317|Aquatic Acute 2;H401
Geranial	141-27-5	50.0	Acute Tox. 5 (Dermal);H313|Skin Irrit. 2;H315|Eye Irrit. 2A;H319|Skin Sens. 1B;H317|Aquatic Acute 2;H401
Geraniol	106-24-1	8.0	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	5.5	Skin Sens. 1B;H317|Skin Irrit. 2;H315|Aquatic Chronic 3;H412|Aquatic Acute 2;H401

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3. COMPOSITION/INFORMATION ON CONSTITUENTS

3.2 Constituents

CONSTITUENT	CAS NUMBER	<= %	RELEVANT GHS
Isocitral #1	72203-97-5	0.8	Skin Sens. 1B;H317|Skin Irrit. 2;H315|Eye Irrit. 2A;H319|Aquatic Chronic 3;H412|Aquatic Acute 2;H401|Acute Tox. 5 (Oral);H303
Isocitral #2	72203-98-6	2.5	Skin Sens. 1B;H317|Skin Irrit. 2;H315|Eye Irrit. 2A;H319|Aquatic Chronic 3;H412|Aquatic Acute 2;H401|Acute Tox. 5 (Oral);H303
Isocitral #3	n.a.	3.0	Skin Sens. 1B;H317|Skin Irrit. 2;H315|Eye Irrit. 2A;H319|Aquatic Chronic 3;H412|Aquatic Acute 2;H401|Acute Tox. 5 (Oral);H303
Isoeugenol	97-54-1	1.0	Acute Tox. 4 (Oral);H302|Acute Tox. 4 (Dermal);H312|Acute Tox. 4 (Inhalation:dust,mist);H332|Skin Irrit. 2;H315|Eye Irrit. 2A;H319|Skin Sens. 1A;H317|STOT SE 3;H335|Aquatic Acute 2;H401
Linalool	78-70-6	2.5	Acute Tox. 5 (Oral);H303|Skin Irrit. 2;H315|Eye Irrit. 2A;H319|Skin Sens. 1B;H317|Aquatic Acute 3;H402
l-Limonene	5989-54-8	3.0	Skin Irrit. 2;H315|Skin Sens. 1B;H317|Aquatic Acute 1;H400|Aquatic Chronic 1;H410
Myrcene	123-35-3	0.5	Skin Irrit. 2;H315|Eye Irrit. 2A;H319|Aquatic Acute 1;H400|Aquatic Chronic 2;H411
Neral	106-26-3	35.0	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	1.0	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	0.15	Skin Sens. 1B;H317|Aquatic Acute 2;H401
Octanal	124-13-0	0.1	Skin Irrit. 2;H315|Eye Irrit. 2A;H319|Aquatic Acute 2;H401|Aquatic Chronic 2;H411
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
p-Mentha-1,3-diene	99-86-5	0.4	Acute Tox. 4 (Oral);H302|Skin Irrit. 3;H316|Aquatic Acute 2;H401|Aquatic Chronic 2;H411
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	0.25	Acute Tox. 5 (Oral);H303|Skin Irrit. 2;H315|Aquatic Acute 1;H400|Aquatic Chronic 2;H411

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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.

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9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance:	Liquid
Colour:	Dark yellow to amber liquid
Odour:	Citral like 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:	72°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@ 20ºC:	0.8870 - 0.9000
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@ 20ºC:	1.4820 - 1.4880
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.

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11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Oral LD50: >5.0g/Kg
Dermal LD50: 3.1g/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.

5392-40-5	**Citral**	Oral, LD50: 4960 mg/kg (rat)
1139-30-6	**Caryophyllene oxide**	Oral, LD50: >5000 mg/kg (rat)
5989-27-5	**(R)-p-mentha-1,8-diene**	Oral, LD50: 4400 mg/kg (rat)
79-92-5	**Camphene**	Oral, LD50: 5000 mg/kg (rat) Dermal, LD50: 2500 mg/kg (Rabbit)
106-22-9	**dl-Citronellol**	Oral, LD50: 3450 mg/kg (rat) Dermal, LD50: 2650 mg/kg (Rabbit)
112-31-2	**Decanal**	Oral, LD50: 3730 mg/kg (rat) Dermal, LD50: 5040 mg/kg (Rabbit)
97-54-1	**Isoeugenol**	Oral, LD50: 1560 mg/kg (rat)
105-87-3	**Geranyl acetate**	Oral, LD50: >4000 mg/kg (rat)
87-44-5	**beta-Caryophyllene**	Oral, LD50: > 5000 mg/kg (rat)
97-53-0	**Eugenol**	Oral, LD50: 1930 mg/kg (rat)
78-70-6	**Linalool**	Oral, LD50: 2790 mg/kg (rat) Dermal, LD50: 5610 mg/kg (Rabbit)

Skin corrosion/irritation: Causes skin irritation
Serious eye damage/irritation: Causes serious eye damage

Respiratory sensitisation: Sensitization possible through skin contact.
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:

91844-92-7	**Cymbopogon flexuosus**	CE50/48h: 27,00 mg/l (daphnia)
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)
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
1.4 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.

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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: LEMONGRASS OIL

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

Classification:



DANGER
UN 3082

Hazard Categories:

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.

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