

CERTIFICATE OF ANALYSIS & MATERIAL SAFETY DATA SHEET

Not classified as hazardous according to criteria of worksafe Australia NOHSC

NOT TEST ON ANIMALS

1. PRODUCT IDENTIFICATION

1.1 Product Name:	Lemongrass Cochin Oil	1.9 Einescs Number:	295-161-9
1.2 Botanical Name:	Cymbopogon flexuosus	1.10 UN Number:	3082
1.3 Product Code:	ESS0148	1.11 UN Proper Shipping Name:	Environmentally hazardous substance, liquid, n.o.s.
1.4 Product Type:	Natural Essential Oil	1.12 Packaging Group:	III
1.5 Country of Origin:	India	1.13 Dangerous Good Class:	Class 9 ; no subsidiary risk.
1.6 Proportions [%w/w]:	100% Pure	1.14 Poision Schedule:	Not scheduled.
1.7 Import From:	Australia	1.15 Hazchem Code:	3Z
1.8 CAS Number:	91844-92-7 [TSCA; EU] 8007-02-1 [AICS]		

2. PHYSICAL & ANALYTICAL DATA

2.1 Appearance:	Yellow to light brown-red liquid
2.2 Odour:	Characteristtic
2.2 Specific Gravity:	0.880 to 0.930 @ 25°C
2.3 Refractive Index:	1.4690 to 1.4950 @ 25°C
2.4 Optical Rotation:	[-5.0° to +18.0° @ 25°C]
2.5 pH:	Not available.
2.6 Solubility:	Soluble in ethyl alcohol
2.7 Flammability Limits:	Not available.
2.8 Flash Point:	71°C [Closed Cup]
2.9 Assay:	Not available.
2.10 Storage Conditions:	Stored at temperature <30°C in closed containers and protected from direct sunlight.

3A. GAS CHROMATOGRAPH ANALYSIS (TYPICAL)

Citral B	32.35%	Terpinene-4-ol	not available
Citral A	41.50%	Lavandulol	not available
Geranyl acetate	3.51%	Borneol	not available
Geraniol	6.27%	α-Terpineol	not available
1,8-Cineole	not available	Isovaleric aldehyde	not available
α-Pinene	not available	Lavandulyl acetate	not available
Sabinene	not available	β-caryophyllene	not available
a-Phellandrene	not available	1-octen-3-yl acetate	not available
β-Phellandrene	not available		
Camphor	not available		
Cis-β-Ocimene	not available		
Octan-3-one	not available		
Octen-3-ol	not available		
Trans-β-Ocimene	not available		
Trans-β-Farnesene	not available		

3B. STABILITY AND REACTIVITY

3.1 Stability:	Chemically stable, hazardous material. This material presents no significant reactivity hazard.
3.2 Conditions to Avoid:	None established.
3.3 Materials to Avoid:	Strong acids, strong alkalis and oxidizing agents.
3.4 Flammability:	Combustible liquid.
3.5 Hazardous Polymerization:	Will not occur.
3.6 Hazardous Combustion or Decomposition Products	Carbon monoxide and unidentified organic compounds may be formed during combustion.

4. HANDLING AND STORAGE

4.1 Handling:	Avoid inhalation and contact with skin and eyes. Good personal hygiene practices should be used. Wash after any contact, before breaks and meals, and at the end of the work period. Contaminated clothing and shoes should be cleaned before re-use. No smoking.
4.2 Storage:	Containers should be kept closed in order to minimise contamination. Store in a cool, dry, well ventilated place protected from light. Keep from extreme heat and away from ALL sources of ignition. Make sure the material does not come into contact with substances listed as: "Materials to Avoid". Store in stainless steel drums or amber glass containers. For short term storage only: epoxy phenolic lined steel drums.
4.3 Unsuitable Packaging Materials:	None established.
4.4 Special Procedures:	None established.

5. ACCIDENTAL RELEASE MEASURES

5.1 Personal Precautions:	Use of self-contained breathing apparatus is recommended for any major chemical spill.
5.2 Safety Precautions:	Eliminate ALL ignition sources. Ventilate area. Determine the need to evacuate or isolate the area according to your local emergency plan.
5.3 Environmental Precautions:	Keep away from drains, surface and ground water. Report spills to appropriate Authorities if required.
5.4 Methods For Cleaning Up:	Contain spill and recover free product. Absorb remainder on vermiculite or other suitable absorbent material. Wipe small spills with cloth. Clean with hot water and detergent.

6. EXPOSURE CONTROLS & PERSONAL PROTECTION

6.1 Exposure Limits	There is a blanket recommendation of 10 mg/m3 for inspirable dusts or mists when limits have not otherwise been established.
6.2 Respiratory Protection:	None generally required. Use NIOSH approved respirator in confined areas or if ventilation is inadequate.
6.3 Ventilation Protection:	Ensure adequate ventilation to keep exposure levels to a minimum. Local exhaust meeting ACGIH criteria is required.
6.4 Eye Protection:	Using goggles or face shield is recommended.
6.5 Protective Gloves:	Using chemical resistant gloves is recommended.
6.6 Protective Clothing:	Using chemical resistant clothing is recommended.
6.7 Protective Equipment:	An eyewash fountain and / or safety shower should be available in the work area.
6.8 Special Engineering Controls:	None established.
6.9 Other Personal Protection:	These precautions are for room temperature handling. Use at elevated temperature or aerosol / spray applications may require additional precautions.

7. HAZARDS IDENTIFICATION

- 7.1 Risk Symbols:** Harmful. Irritant. Dangerous for the Environment.
- 7.2 Risk Phrases:** Harmful if swallowed. Irritating to eyes. Irritating to respiratory system Irritating to skin. Risk of serious damage to eyes. May cause sensitization by skin contact. Toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment. Harmful: may cause lung damage if swallowed.
- 7.3 Safety Phrases:** Keep out of the reach of children. Keep in a cool place. Keep container tightly closed. Keep away from food, drink and animal feeding stuffs. Keep away from heat. When using, do not eat or drink. When using, do not smoke. Do not breathe fumes / vapours. Avoid contact with skin. Avoid contact with eyes. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. After contact with skin, wash immediately with plenty of soap and water. Do not empty into drains. Wear suitable protective clothing. Wear suitable gloves. Wear eye / face protection. In case of accident or if you feel unwell, seek medical advice immediately [show the label where possible]. Use only in well-ventilated areas. This material and its container must be disposed of as hazardous waste. If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label. In case of accident by inhalation: remove casualty to fresh air and keep at rest. If swallowed, rinse mouth with water, [only if the person is conscious].

8. FIRST AID MEASURES

- 8.1 Eye Contact:** Flush immediately with clean water for at least 15 minutes. Ensure irrigation under eyelids. Do not try to remove contact lenses unless trained. Contact a physician immediately.
- 8.2 Skin Contact:** Remove any contaminated clothing and footwear. Clean before re-use. Wash affected areas thoroughly with soap and water for at least 15 minutes. Contact a physician as necessary.
- 8.3 Inhalation:** Remove from the exposure to fresh air. If breathing has stopped, administer artificial respiration and oxygen if available. Contact a physician as necessary.
- 8.4 Ingestion:** Do Not induce vomiting. Wash out mouth with water and give water slowly to dilute [as much as casualty can comfortably drink] provided person is conscious. Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconsciousness. Contact a physician or local poison control centre immediately. If vomiting occurs, lean patient forward or place on left side [head-down position, if possible] to maintain open airway and prevent aspiration.

9. FIRE AID MEASURES

- 9.1 Extinguishing Media:** Carbon Dioxide; Dry Chemical; Universal-Type Foam.
- 9.2 Unsuitable Extinguishing Media:** Carbon Dioxide; Dry Chemical; Universal-Type Foam.
- 9.3 Unusual Firefighting Hazards:** None identified.
- 9.4 Special Procedures:** Determine the need to evacuate or isolate the area according to your local emergency plan.
- 9.5 Protective Equipment:** Self-contained breathing apparatus and protective clothing should be worn when fighting fires involving essential oils or chemicals.
- 9.6 Combustion Products:** Oxides of carbon.

10. TOXICOLOGICAL INFORMATION

- 10.1 Health Hazards** Swallowed: Harmful, may cause lung damage if swallowed. Eye: May be irritating. Skin: May be irritating.
Inhalation: May be harmful.
- 10.2 Acute Toxicity** LD50 [Oral]: 5,000 mg/Kg [Rat].
LD50 [Dermal]: 2,000 mg/Kg [Rabbit].
LC50 [Inhalation]: Not available.

11. DISPOSAL CONSIDERATIONS

- 11.1 Waste Material:** Place material and / or absorbent into sealed containers and dispose of in accordance with current applicable laws and regulations. Refer to local Authority advice.
- 11.2 Contaminated Packaging:** Dispose of in accordance with current applicable laws and regulations. Refer to local Authority advice.
Empty containers can have residues, gases and mists. Use the proper Waste Disposal Methods & Procedures for Empties as well.

12. TRANSPORT INFORMATION

- 12.1 Transportation:** Classified as Dangerous Goods by the criteria of the Australian Dangerous Goods [ADG] Code for Transport by Road and Rail. Transport as per the "Australian Dangerous Goods [ADG] Code" for Class 9 [Miscellaneous], Packaging Group III Substances. Not to be transported with Classes 1 [Explosives], 2.1 [Flammable Gases] [nb this applies only when the capacity of individual container exceeds 500 Lt], 2.3 [Toxic Gases], 4.2 [Spontaneously Combustible Substances], 5.1 [Oxidising Agents], 5.2 [Organic Peroxides], 7 [Radioactive Substances], and Foodstuffs or Foodstuff empties.

13. SUPPLIER'S DATA

Easy Creation Asia Limited www.ecalhk.com

14. DISCLAIMER

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