

MATERIAL SAFETY DATA SHEET

Certified Organic Lemongrass Essential Oil



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Not classified as hazardous according to criteria of Worksafe Australia

1. PRODUCT IDENTIFICATION AND COMPOSITION

- 1.1 Product Name:** Certified Organic Lemongrass Essential Oil
1.2 Botanical Name: *Cymbopogon flexuosus*
1.3 Product Code: OCLEMOGRAS
1.4 USA INCI Name: Cymbopogon Flexuosus Oil
1.5 EU INCI Name: Not allocated

1.6 Ingredients:

Component Entity	CAS Number	EINECS Number	Proportions [%w/w]
Certified Organic Lemongrass Essential Oil	Not allocated	Not allocated	100% pure

- 1.7 Uses:** Fragrance Ingredient.
Bath preparations, miscellaneous; Bath soaps and detergents; Body and Hand preparations [Excluding shaving preparations]; Bath capsules; Face and Neck preparations [Excluding shaving preparations]; Hair conditioners.

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2. HAZARD IDENTIFICATION

2.1 Physical - Chemical Hazards

Explosion:	None identified.
Flammable:	Combustible liquid, produces oxides of carbon when burning.
Oxidizing:	Not applicable.
Toxic:	None identified.
Radioactive:	Not applicable.
Corrosive:	None identified.
Miscellaneous:	None identified.

2.2 Environmental Hazards: None identified.

2.3 Health Hazards

Acute Effects:	Swallowed:	May be harmful.
	Eye:	May be irritating.
	Skin:	May be irritating.
	Inhalation:	May be harmful.
Chronic Effects:		None identified.
Mutagenic Effects:		None identified.
Reproductive Effects:		None identified.
Carcinogenic Effects:		None identified.
Sensitisation:		None identified.
Infectious:		Not applicable.

3. FIRST AID

3.1 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 as necessary.
3.2 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.
3.3 Inhalation:	Remove from the exposure to fresh air. If breathing has stopped, administer artificial respiration and oxygen if available. Contact a physician as necessary.
3.4 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.
3.5 Contact Point:	Poisons Information Centre Sydney [T] 131126
3.6 Advice to Doctor:	Treat symptomatically. Note the nature of this product.

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4. FIRE FIGHTING MEASURES

- 4.1 Extinguishing Media:** Carbon Dioxide; Dry Chemical; Universal-Type Foam.
4.2 Unsuitable Extinguishing Media: Water Spray; Others not established.
4.3 Unusual Firefighting Hazards: None identified.
4.4 Special Procedures: Determine the need to evacuate or isolate the area according to your local emergency plan.
4.5 Protective Equipment: Self-contained breathing apparatus and protective clothing should be worn when fighting fires involving essential oils or chemicals.
4.6 Combustion Products: Oxides of carbon.
4.7 Contact Point: Dial 000 Emergency in case of fire [In Australia]
or Local Emergency Authority [Out of Australia].

5. ACCIDENTAL RELEASE MEASURES

- 5.1 Personal Precautions:** Use of self-contained breathing apparatus is recommended for any major chemical spill. Refer also to section 8.
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. Refer also to Section 13. for disposal procedures.

6. SAFE HANDLING AND STORAGE INFORMATION

- 6.1 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.
6.2 Storage: Not a hazardous material. Not a Scheduled Poison.
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.
Glass, laquer-lined steel/tin, aluminium and F/HDPE acceptable containers.
Make sure the material does not come into contact with substances listed as: "Materials to Avoid", Refer to Section 10.
6.3 Unsuitable Packaging Materials: None established.
6.4 Special Procedures: None established.

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7. EXPOSURE CONTROLS AND PERSONAL PROTECTION

- 7.1 Respiratory Protection:** None generally required. Use NIOSH approved respirator in confined areas or if ventilation is inadequate.
- 7.2 Ventilation Protection:** Ensure adequate ventilation to keep exposure levels to a minimum. General exhaust is recommended.
- 7.3 Eye Protection:** Using goggles or face shield is recommended.
- 7.4 Protective Gloves:** Using chemical resistant gloves is recommended.
- 7.5 Protective Clothing:** Using chemical resistant clothing is recommended.
- 7.6 Protective Equipment:** An eyewash fountain and / or safety shower should be available in the work area.
- 7.7 Special Engineering Controls:** None established.
- 7.8 Other Personal Protection:** Consult the following Australian Standards for general advice regarding safety clothing and equipment: Respiratory Equipment: **AS/NZS 1715**, Protective Gloves: **AS 2161**, Industrial Clothing: **AS 2919**, Industrial Eye Protection: **AS 1336** and **AS/NZS 1337**, Occupational Protective Footwear: **AS/NZS 2210**.
- 7.9 Note:** These precautions are for room temperature handling. Use at elevated temperature or aerosol / spray applications may require additional precautions.

8. PHYSICAL AND CHEMICAL PROPERTIES

TEST	SPECIFICATION
8.1 Appearance:	Clear pale yellow to amber mobile liquid
8.2 Odour:	Characteristic, sweet, fresh, grassy lemon
Odour Threshold:	Not available.
8.3 Specific Gravity:	0.870 to 0.905 @ 25°C
8.4 Refractive Index:	1.480 to 1.493 @ 25°C
8.5 Optical Rotation:	-5° to +1° @ 20°C
8.6 pH:	Not available.
8.7 Solubility:	Soluble in ethyl alcohol
8.8 Solubility in Water:	Insoluble
8.9 Flash Point:	71°C [Test unknown]
8.10 Flammability Limits [as % v/v in Air]	
Lower Explosion Limit:	Not available.
Upper Explosion Limit:	Not available.
8.11 Autoignition Temperature:	Not available.
8.12 Melting Point:	Not available. °C @ 760 mm Hg
8.13 Boiling Point:	Not available. °C @ 760 mm Hg
8.14 Vapour Pressure:	Not available.
8.15 Vapour Density:	Not available.

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8.16 EFFA Listed Sensitisers & IFRA Notifiable Substances					
CONSTITUENT	IFRA	EFFA	CAS Number	EINECS Number	RANGE
Limonene:	YES	YES	138-86-3	205-341-0	< 1%
Linalool:	YES	YES	78-70-6	201-134-4	< 5%
Neral:	YES	YES	106-26-3	203-378-2	< 35%
Geraniol:	NO	YES	106-24-1	203-377-1	< 10%
Geranial:	YES	YES	141-27-5	205-476-5	< 40%
iso-Eugenol:	YES	YES	97-54-1	202-590-7	< 1%

9. STABILITY AND REACTIVITY

9.1 Stability:	Chemically stable, non hazardous material. This material presents no significant reactivity hazard.
9.2 Conditions to Avoid:	None established.
9.3 Materials to Avoid:	Strong acids, strong alkalis and oxidizing agents.
9.4 Flammability:	Combustible liquid.
9.5 Hazardous Polymerization:	Will not occur.
9.6 Hazardous Combustion or Decomposition Products:	Carbon monoxide and unidentified organic compounds may be formed during combustion.

10. TOXICOLOGICAL INFORMATION

10.1 Acute Toxicity	
LD50 [Oral]:	Not tested on animals – So not available.
LD50 [Dermal]:	Not tested on animals – So not available.
LC50 [Inhalation]:	Not tested on animals – So not available.
10.2 Exposure Limits	There is a blanket recommendation of 10 mg/m ³ for inspirable dusts or mists when limits have not otherwise been established.
OSHA TWA:	None established.
OSHA STEL:	None established.
ACGIH TWA:	None established.
ACGIH STEL:	None established.
NOHSC TWA:	None established.
NOHSC STEL:	None established.
10.3 Short Term Toxicity:	Not available.
10.4 Long Term Toxicity:	Not available.
10.5 Human Exposure Tests:	Not available.

11. ECOLOGICAL INFORMATION

11.1 Eco-toxicity:	None established. Avoid pollution to soil, rivers and the ocean.
11.2 Mobility:	Low mobility in the soil.
11.3 Persistence & Degradability:	Low persistence level and readily biodegradable.
11.4 Bio-accumulative Potential:	None established.
11.5 Other Adverse Effects:	None established.

12. DISPOSAL CONSIDERATION

12.1 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.
12.2 Contaminated Packaging:	Dispose of in accordance with current applicable laws and regulations. Refer to local Authority advice.
12.3 Note:	Empty containers can have residues, gases and mists. Use the proper Waste Disposal Methods & Procedures for Empties as well.

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13. TRANSPORT INFORMATION

13.1 Transportation:	Not Dangerous Goods according to criteria of the Australian Dangerous Goods Code for Transport by Road and Rail. No special transport required. Not to be transported with Classes 1 [Explosives], 2.1 [Flammable Gases] [nb this applies only when in bulk], 2.3 [Poisonous Gases], 4.2 [Spontaneously Combustible Substances], 5.1 [Oxidising Agents], 5.2 [Organic Peroxides], 7 [Radioactive Substances], and Foodstuffs or Foodstuff empties.
13.2 Proper Shipping Name:	Not Regulated.
13.3 UN Number:	Not allocated.
13.4 Packaging Group:	Not allocated.
13.5 DG Class:	Not allocated.
13.6 Poison Schedule:	Not Scheduled.
13.7 Hazchem Code:	Not allocated.

14. REGULATORY INFORMATION

14.1 Risk Symbols:	Not allocated.
14.2 Risk Phrases:	Not allocated.
14.3 Safety Phrases:	Not allocated.
14.4 Warning Statements:	Not allocated.
14.5 Safety Directions:	Not allocated.
14.6 Standard Statements:	Not allocated.

15. ADDITIONAL INFORMATION

15.1 ORGANIC / GMO DECLARATION

The Certified Organic Lemongrass Essential Oil is obtained from the flowering tops of the lemongrass plant variety *Cymbopogon flexuosus*, by the process of steam distillation.

It is exclusively gained from non-GMO organically grown lemongrass plants and is free of any GMO-Fragments.

It is grown, harvested and processed within the strict principles of creating animal free products.

It is grown, harvest and processed within the strict principles of creating organic materials.

It conforms to the specifications of GMO Free, Certified Organic Lemongrass Essential Oil.

It contains No Animal Products.

15.2 QUALITY DECLARATION

At our firmly believe that Quality Control is of the utmost importance and it is imperative that the most meticulous tests are carried out for every product in our range.

Uncompromising quality is a responsibility, which we take seriously.

Our commitment to quality is coordinated by our in-house Qualified Aromatherapist, Chief Chemist and Quality Control Chemist.

The most rigorous processes are implemented to determine the purity and potency of sourced oils & raw materials.

By maintaining this intense level of Quality Control and Developing New Methods & Techniques, We can ensure Superior Quality Products.

This Certified Organic Lemongrass Essential Oil has been tested and it conforms to our High Standard Quality requirements.

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15.3 ANIMAL TESTING POLICY DECLARATION

In the long ago past [before the concern over animal testing] some of the excipients and some of the actives have been tested on animals. This is no longer conducted for these components.

Both the TGA and NICNAS [Australian regulatory agencies which control the use of ALL ingredients used in therapeutics and cosmetics, respectively] require toxicity and safety testing on ALL new raw materials before they will allow their use in Australia.

While the industry is developing non-animal test methods this still does not completely eliminate the need for animal testing. When available the industry uses these alternate tests in preference to animal testing.

Typically these initial tests on a new substances will occur in the UK or USA in accordance with the regulatory agencies there, 5 to 10 years before the material is used in Australia. Based on these initial results, new substances are usually approved by the Australian regulatory agencies for use without further animal testing being required.

We do not test raw materials on animals, neither initially or as a routine test, [nor by outside sources our behalf].

The product Suppliers for us do not test their products on animals, neither initially or as a routine test.

None of us finished formulations are tested on animals, either initially or as a routine test, except, of course, humans in controlled efficacy tests and against bacteria in preservative efficacy testing.

Our Animal Cruelty-Free Policy extends to using ingredients and raw materials from vegetable sources when ever possible.

15.4 DISCLAIMER

The information contained in this Material Safety Data Sheet is obtained from current and reliable sources. We provide the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This Material Safety Data Sheet summarises our best current knowledge of the health and safety hazard information of the product. This document is thus, intended only as a guide to the appropriate precautionary handling of the material by properly trained personnel using this product. Individuals receiving this information must exercise their independent judgment in determining its appropriateness for a particular purpose. As the ordinary or otherwise use(s) of this product is outside the control of us., no representation or warranty, expressed or implied, is made as to the effect(s) of such use(s), (including damage or injury), or the results obtained. We expressly disclaim responsibility as to the ordinary or otherwise use(s). Furthermore, nothing contained herein should be considered as a recommendation by us as to the fitness for any use. The liability of us is limited to the value of the goods and does not include any consequential loss. We shall not be liable for any errors or delays in the content, or for any actions taken in reliance thereon. We shall not be responsible for any damages resulting from use of or reliance upon this information. The user of the product is solely responsible for compliance with all laws and regulations applying to the use of the products, including intellectual property rights of third parties.

15.5 MANUFACTURED PRODUCTS INGREDIENT DISCLAIMER

As the availability of ingredients and raw materials is not always certain whether due to changes in nature or otherwise, We reserve the right to substitute alternate ingredients/raw materials in the manufacture of its products and bases in order to maintain supply to its customers. Customers should always refer to the ingredients label as affixed to each product or to specification sheets which are current at the time of supply of the product.
