

SECTION: 1.1 PRODUCT IDENTIFICATION

Product Name: Lemongrass Oil

Botanical Name: Cymbopogon flexuosus

Synonyms: Cymbopogon flexuosus (D. C.) Stapf., Cymbopogon schoenanthus

INCI Name: Cymbopogon schoenanthus oil

CAS #: 8007-02-1 Country of Origin: India

SECTION: 1.2 COMPANY IDENTIFICATION

Company: Saffire Blue Inc.

1444 Bell Mill Road

Tillsonburg, ON N4G4G9 Canada

Tel: 519-286-0295

24 HOUR EMERGENCY TELEPHONE NUMBER: (613)-996-6666 CANUTEC

SECTION: 2. COMPOSITION / INFORMATION INGREDIENTS

Contents: Mainly consists of citral (neral and geranial) with the following terpenoids of nerol, limonene,

linalool and β-caryphyllene

SECTION: 3. HAZARDS IDENTIFICATION

N/A

Medical Information: N/A

SECTION: 4. FIRST AID MEASURES

Eve Contact: Contact with eyes can produce burning sensation. Irrigate with water immediately,

continue flushing eyes with water for 15 minutes. Seek medical attention if irritation

persists.

Inhalation: Remove to fresh air. Give oxygen if breathing is labored and seek medical advice.

Avoid casual breathing. Signs of over exposure are dizziness and nausea.

Ingestion: Rinse mouth; dilute with milk or water and consult a physician immediately. Do not

induce vomiting. Never-give anything by mouth if victim is unconscious, is rapidly-

losing or is Convulsing.

Skin Contact: Skin contact can produce irritation, or itching of the skin. Remove contaminated

clothing Wash with soap and plenty of water. Seek medical attention if irritation

persists.

SECTION: 5. FIRE FIGHTING MEASURES

Flash Point: 71°C

Extinguishing media: Carbon Dioxide, dry chemical or foam. Closed containers may build

up pressure at elevated temperature

Special Procedures: Determine the need to evacuate or isolate the area according to your

local emergency plan.

Unusual Firefighting Hazards: None identified.

Protective Equipment: Self-contained breathing apparatus and protective clothing should be

worn when fighting fires involving essential oils or chemicals.

Combustion Product: Carbon Monoxide, Carbon Dioxide

MSDS: Lemongrass Essential Oil Page 1 of 5



SECTION: 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Use of self-contained breathing apparatus is recommended for any

major chemical spill. Refer also to section 8.

Safety Precautions: Eliminate all ignition sources. Ventilate area. Determine the need to

evacuate or isolate the area according to your local emergency plan.

Environmental Precautions: Keep away from drains, surface and ground water. Report spills to

appropriate Authorities if required.

Methods For Cleaning Up: Contain and collect with inert absorbent material and place in suitable

container for disposal. Comply with all federal, state, and local regulation. Wipe small spills with cloth. Clean with hot water and

detergent.

SECTION: 7. HANDLING AND STORAGE

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.

Storage: Containers should be kept closed in order to minimize contamination. Store

in a cool, dry, well ventilated place protected from light. Keep away from extreme heat and from freezing conditions and away from all sources of ignition. Make sure the material does not come into contact with substances

listed as: "Materials to Avoid".

SECTION: 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Eyes Protection: The use of safety glasses is recommended. If a material is to be handled in a

manner where splashing may occur, the use of splash goggles or face shield is

recommended

Respiratory Protection: In well- ventilated areas, respiratory protection is not normally required. In

confined, poorly ventilated areas the use of "NIOSH" approved respiratory protection normally required (use only if trained in proper use and with

acceptable oxygen level).

Protective Gloves:
Using chemical resistant gloves is recommended.
Protective Clothing:
Using chemical resistant clothing is recommended.

Protective Equipment: An eyewash fountain and / or safety shower should be available in the work

area. Acceptable industrial hygiene practices should be maintained.

Note: These precautions are for room temperature handling. Use at elevated

temperature or aerosol / spray applications may require additional precautions

SECTION: 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Pale yellow to radish brown liquid.

Odor: Very strong and stimulating characteristic lemon odor.

Solubility: Soluble in alcohol. Insoluble in water.

 Specific Gravity:
 $0.885 - 0.904 @ 20^{\circ}C$

 Refractive Index:
 $1.4790 - 1.4890 @ 20^{\circ}C$

 Optical Rotation:
 $-3.0 - +2.0 @ 20^{\circ}C$

Extraction Method: Steam distillation of the grass

SECTION: 10. STABILITY AND REACTIVITY



Stability: Chemically stable. This material presents no significant reactivity

hazard.

Conditions to Avoid: Avoid sparks, flame and excessive heat.

Materials to Avoid: Strong oxidizing agents.

Hazardous Polymerization: Will not occur. **Hazardous Combustion or** None known.

Decomposition Products: When heated to decomposition produces acid fumes and carbon

monoxide smoke.

SECTION: 11. TOXICOLOGICAL INFORMATION

Inhalation: Inhalation of high concentrations of vapor may result in irritation of

eyes, nose and throat, headache, nausea, and dizziness.

Skin Contact: Repeated or prolonged contact can cause redness, irritation and scaling

of skin (Dermatitis). Adverse skin effects should be prevented by

normal care and personal hygiene

Eye Contact: May irritate eyes.

Ingestion: Low order toxicity causing irritation of the stomach and intestines

which results in nausea and vomiting.

Medical Conditions Aggravated

by Exposure: May aggravate dermatitis, psoriasis and other skin conditions.

Chronic Toxicity: May cause allergic reactions on skin

Carcinogenicity Data: None of the components of this material are listed as a carcinogen.

Reproductive Toxicity: No adverse effects on reproduction are known.

Acute Toxicity Values: No data is currently available.

SECTION: 12. ECOLOGICAL INFORMATION

Very toxic to aquatic organism may cause long-term adverse effects in the aquatic environment. Avoid any pollution of ground, surface or underground water.

SECTION: 13. DISPOSAL CONSIDERATION

Dispose of in accordance with local, provincial and federal regulations. Check with disposal expert to ensure compliance.

SECTION: 14. TRANSPORT INFORMATION

US DOT Shipping Description:
IATA Shipping (Air):
Not regulated.
Not regulated.
Not regulated.

The oil can be safely stored or transported in sound metal drums or bottles at ambient temperatures. Store in full sealed containers, keep cool and protect from light to preserve quality, preferred container for long term storage - stainless steel or glass.

AIR FREIGHTS:

Airfreights are done in conformance to latest IATA/ICAO regulations with the name and address of the notifing party on the containers.

SECTION: 15. REGULATORY INFORMATION

WHMIS (Canada): N/A SARA 302/ SARA 313: None

California Proposition 65: This product does not contain chemical listed per the Safe Drinking



Water and Enforcement Act of 1986

EU Labeling: Xn R22 Harmful if swallowed.

Xi R38 Irritating to skin

S36/37/38 Wear suitable protective clothing, gloves and eye/face protection.

SECTION: 16. OTHER INFORMATION

Revision Date: September 19, 2013

SECTION: 17. DISCLAIMER

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CERTIFICATE OF ANALYSIS

Product: Lemongrass Essential Oil

Lot No.: 11080- A31 **Best Before:** April, 2017

Store in air tight container; in a cool dry area; away from direct sunlight.

Properties	Specifications	Results
Appearance:	Pale yellow to reddish brown liquid.	Complies
Odor:	Characteristic lemon-like odor.	Complies
Solubility:	Soluble in alcohol and oils. Insoluble	Complies
	in water.	
Specific Gravity:	0.885 – 0.904 @ 25°C	0.888
Optical Rotation:	-3.0 - +2.0	-1°
Refractive Index:	1.479 – 1.4890 @ 20°C	1.4825
Total Citral (GC.)	> 70%	74.2%

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