

## SAFETY DATA SHEET

### SECTION 1: PRODUCT / SUBSTANCE IDENTIFICATION

PRODUCT NAME	:	Lemongrass Essential Oil
BOTANICAL NAME	:	<i>Cymbopogon flexuosus</i>
COUNTRY OF ORIGIN	:	India
CAS NUMBER	:	8008-56-8
EC NUMBER	:	284-515-8
FEMA	:	2624
SUPPLIER	:	Brooklyn Botany
ADDRESS	:	6569 Pond Apple Rd. Boca Raton, FL 33433
TELEPHONE NUMBER	:	914-940-5947

### SECTION 2: HAZARD IDENTIFICATION

#### 2.1 CLASSIFICATION OF THE SUBSTANCE

##### CLASSIFICATION ACCORDING TO THE REGULATION (EC) NO 1272/2008

SKIN CORROSION/IRRITATION	:	Category 2
SERIOUS EYE DAMAGE/IRRITATION	:	Category 1

**SKIN SENSITIZATION** : Category 1A  
**FLAMMABLE LIQUIDS** : Category 4

**CLASSIFICATION ACCORDING TO THE DIRECTIVED 67/548/EEC**

**2.2 LABEL ELEMENTS**



**SIGNAL WORD** : Danger

**2.3 HAZARD STATEMENTS**

**H227** : Combustible liquid, Category 4  
**H315** : Causes skin irritation  
**H317** : May cause an allergic skin reaction  
**H319** : Causes eye damage  
**H335** : May cause respiratory irritation  
**H412** : Hazardous to the aquatic environment;  
Long-term hazard, Category chronic 3

**PRECAUTIONARY STATEMENTS**

**P403 + P235** : Store in a well-ventilated place. Keep cool  
**P264** : Wash skin thoroughly after handling

<b>P261</b>	:	Avoid breathing dust, fume, gas, mist, vapors, spray
<b>P362</b>	:	Take off contaminated clothing and wash before reuse
<b>P210</b>	:	Keep away from heat, sparks, open flames, hot surfaces. No smoking
<b>P280</b>	:	Wear protective gloves, eye protection, face protection
<b>P501</b>	:	Dispose of contents/container to an approved waste disposal plant
<b>P305 + P351 + P338</b>	:	If in contact with eyes, rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
<b>P302 + P352</b>	:	If on skin, wash with plenty of water and soap.
<b>P333 + P313</b>	:	If skin irritation or rash occurs, get medical advice/attention
<b>P370 + P378</b>	:	If case of fire, use CO <sub>2</sub> , dry chemical, or foam to extinguish

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 SUBSTANCES

CONCENTRATION RANGE OF THE CONSTITUENT (%WEIGHT/WEIGHT)	EC NUMBER / REGISTRATION NUMBER	CAS	CHEMICAL NAME
100%	284-515-8	8008-56-8	Citrus limonum Oil

CONCENTRATION RANGE OF THE CONSTITUENT (%WEIGHT/WEIGHT)	CAS	CHEMICAL NAME
80 - 90	5392-40-5	Citral
5.0 - 10	106-24-1	Gerniol

5.0 - 10	105-87-3	Geranyl acetate
1.0 - 5.0	87-44-5	Beta-Caryophyllene
1.0 - 5.0	5989-27-5	Limonene
1.0 - 5.0	79-92-5	Camphene
1.0 - 5.0	78-70-6	Linalool
0.1 - 1.0	106-23-0	Citronellal
0.1 - 1.0	106-25-2	Nerol
0.1 - 1.0	106-22-9	Citronellol
0.1 - 1.0	97-54-1	Isoeugenol
0.1 - 1.0	80-56-8	alpha-Pinene
0.1 - 1.0	4602-84-0	Farnesol

## SECTION 4: FIRST AID MEASURES

### 4.1 EYE CONTACT

Remove contact lenses if easily possible. Immediately flush your eyes with plenty of cool water for at least 15 minutes. Get medical attention if irritation occurs.

### SKIN CONTACT

Remove contaminated clothing. Wash the area with soap and water. If irritation occurs, get medical attention.

### INHALATION

If inhaled. Remove person to fresh air. Get medical attention if symptoms appear.

### INGESTION

Seek medical attention or contact local poison control center.

### 4.2 MOST IMPORTANT SYMPTOM AND EFFECTS, BOTH ACUTE AND DELAYED

Aspiration hazard. May cause lung damage if swallowed (aspiration toxicity includes severe acute effects such as chemical pneumonia, varying degrees of pulmonary injury or death following aspiration). May produce an allergic reaction(rash, urticarial). Read label before use.

### 4.3 INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

N/A

## **SECTION 5: FIRE FIGHTING MEASURES**

### **5.1 SUITABLE EXTINGUISHING MEDIA**

Foam. Dry Powder. Carbon dioxide.

### **5.2 UNSUITABLE EXTINGUISHING MEDIA**

Water spray, water jet.

### **5.3 SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIRE-FIGHTERS**

Wear proper protective equipment. Exercise caution when fighting any chemical fire. Use water spray or fog for cooling exposed containers. Closed containers may build up pressure at elevated temperatures. Avoid inhalation of fumes or vapors. Use appropriate respiratory protection. Prevent run-off from fighting to enter drains or water courses.

## **SECTION 6: ACCIDENTAL RELEASE MEASURES**

### **6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT, AND EMERGENCY PROCEDURES**

Do not smoke and do not expose product to open flame or potential source of ignition. Wear appropriate gloves to prevent skin exposure and respiratory protection equipment may be necessary. (Waterproof boots, suitable protective clothing, safety glasses). Prevent any contact with hot surfaces. Do not approach facing the wind.

### **6.2 ENVIRONMENTAL PRECAUTIONS**

Keep away from drains, surface, and groundwater soil.

### **6.3 METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP**

Clean up any spills as soon as possible, using a non-combustible absorbent material (e.g. dry-lime, sand, soda ash) to collect it. Use suitable disposal containers. Ventilate the area and wash spill site after pickup. Dispose of it in accordance with current laws and regulations.

## **SECTION 7: HANDLING AND STORAGE**

### **7.1 PRECAUTIONS FOR SAFE HANDLING**

No direct lighting. No smoking. Keep away from food, drink and animal feeding stuffs. Avoid contact with skin and eyes. Ensure prompt removal from eyes, skin and clothing. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Handle in accordance with good industrial hygiene and safety procedures.

### **7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES**

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.

## **SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION**

### **PERSONAL PROTECTION EQUIPMENT**

Use personal protection equipment according to Directive 89/686/EEC.

### **ENGINEERING CONTROLS-VENTILATION**

The areas where the product is handled and stored should be adequately ventilated.

### **RESPIRATORY**

In case of insufficient ventilation, wear suitable respiratory equipment.

### **SKIN PROTECTION**

Avoid contact with skin. Compatible chemical-resistant gloves are recommended. Wash contaminated gloves before reuse.

### **EYE/FACE PROTECTION**

Chemical safety goggles are recommended. Wash contaminated goggle before reuse.

## **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

<b>APPEARANCE</b>	:	Orange Yellow to Dark Brown Liquid
<b>ODOR</b>	:	Characteristic
<b>FLASH POINT</b>	:	79 ° C
<b>RELATIVE DENSITY</b>	:	0.870 – 0.910

## **SECTION 10: STABILITY AND REACTIVITY**

### **10.1 REACTIVITY**

It presents no significant reactivity hazards by itself or in contact with water. Avoid contact with strong acids, alkali, or oxidizing agents.

### **10.2 CHEMICAL STABILITY**

Stable under normal operating conditions

### **10.3 POSSIBILITY OF HAZARDOUS REACTIONS**

Hazardous Polymerization: It does not undergo any dangerous reactions under normal conditions

### **10.4 CONDITIONS TO AVOID**

Heat, flames, and other sources of ignition. No special precautions other than good housekeeping of chemicals.

### **10.5 INCOMPATIBLE MATERIALS**

Oxidizing mineral acids, strong reducing agents, strong oxidizing agents.

### **10.6 DECOMPOSITION**

Carbon monoxide and unidentified organic compounds may be formed during combustion.

## **SECTION 11: TOXILIGICAL INFORMATION**

### **ACUTE TOXICITY**

This substance does not meet the criteria for classification in accordance with Regulation (EC) No 1272/2008.

### **SKIN IRRITATION/CORROSION**

This substance meets the criteria for classification in accordance with Regulation (EC) No 1272/2008.

### **SERIOUS EYE IRRITATION/DAMAGE**

This substance meets the criteria for classification in accordance with Regulation (EC) No 1272/2008.

### **RESPIRATORY OR SKIN SENSITIZATION**

This substance meets the criteria for classification in accordance with Regulation (EC) No 1272/2008.

### **GERM CELL MUTAGENICITY**

This substance does not meet the criteria for classification in accordance with Regulation (EC) No 1272/2008.

### **CARCINOGENICITY**

This substance does not meet the criteria for classification in accordance with Regulation (EC) No 1272/2008.

### **REPRODUCTIVE TOXICITY**

This substance does not meet the criteria for classification in accordance with Regulation (EC) No 1272/2008.

### **STOT-SINGLE EXPOSURE**

This substance does not meet the criteria for classification in accordance with Regulation (EC) No 1272/2008.

### **STOT-REPEATED EXPOSURE**

This substance does not meet the criteria for classification in accordance with Regulation (EC) No 1272/2008.

### **ASPIRATION TOXICITY**

This substance does not meet the criteria for classification in accordance with Regulation (EC) No 1272/2008.

## SECTION 12: ECOLOGICAL INFORMATION

- 12.1 ACUTE AQUATIC TOXICITY: Not determined
- 12.2 PERSISTENCE AND DEGRADABILITY: N/A
- 12.3 BIOCONCENTRATION FACTOR: Not determined
- 12.4 MOBILITY IN SOIL: N/A
- 12.5 RESULTS OF PBT AND vPvB ASSESSMENT: Not determined
- 12.6 OTHER ADVERSE EFFECTS: Do not allow the material to enter streams, sewers, or other waterways

## SECTION 13: DISPOSAL CONSIDERATION

Dispose of product in accordance with local, state or provincial and federal regulations. Check with local municipal authority to ensure compliance.

## SECTION 14: TRANSPORT INFORMATION

### 14.1 INTERNATIONAL CARRIAGE OF DANGEROUS GOODS BY ROAD (ADR)

UN NUMBER	:	UN3082
PROPER SHIPPING NAME	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,N.O.S. (Cital and Geranyl acetate)
PACKING GROUP	:	III
CLASS	:	9

**ABEL**

:



**14.2 SEA TRANSPORT (IMDG)**

**UN NUMBER**

:

UN3082

**PROPER SHIPPING NAME**

:

ENVIRONMENTALLY HAZARDOUS  
SUBSTANCE, LIQUID,N.O.S. (Citral and  
Geranyl acetate)

**PACKING GROUP**

:

III

**CLASS**

:

9

**EmS**

:

F-A, S-F

**LABEL**

:



**14.3 AIR TRANSPORT (ICAO/IATA)**

**UN NUMBER**

:

UN3082

**PROPER SHIPPING NAME**

:

ENVIRONMENTALLY HAZARDOUS  
SUBSTANCE, LIQUID,N.O.S. (Citral and  
Geranyl acetate)

**PACKING GROUP**

:

III

**CLASS**

:

9

**LABEL**

:



## **SECTION 15: REGULATORY INFORMATION**

### **15.1 SAFETY, HEALTH, AND INFORMATION REGULATIONS/LEGISLATION SPECIFIC FOR THE SUBSTANCE OR MIXTURE**

Not available.

### **15.2 CHEMICAL SAFETY ASSESMENT**

Not available.

## **SECTION 16: DISCLAIMER AND CAUTION**

Please refer to all relevant technical information specific to the product, prior to use. The information contained in this document is obtained from current and reliable sources. Brooklyn Botany provides the information contained herein but makes no representation as to its comprehensiveness or accuracy. Individuals receiving this information must exercise their independent judgment in determining its appropriateness for a particular purpose. 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. As the ordinary or otherwise use(s) of this product is outside the control of Brooklyn Botany, 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. The liability of Brooklyn Botany is limited to the value of the goods and does not include any consequential loss. Brooklyn Botany shall not be liable for any errors or delays in the content, or for any actions taken in reliance thereon. Brooklyn Botany shall not be responsible for any damages resulting from use of or reliance upon this information. In the event of any dispute, the Customer hereby agree that Jurisdiction is limited to the State of Florida.