

SAFETY DATA SHEET

SECTION 1: PRODUCT / SUBSTANCE IDENTIFICATION

PRODUCT NAME	:	Citronella Essential Oil
BOTANICAL NAME	:	<i>Cymbopogon winterianus</i>
COUNTRY OF ORIGIN	:	Indonesia
CAS NUMBER	:	8000-29-1
EC NUMBER	:	294-954-7
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

COMBUSTIBLE LIQUID	:	Category 4, H227
SKIN CORROSION/IRRITATION	:	Category 2, H315
SERIOUS EYE DAMAGE/EYE IRRITATION:		Category 1, H318

SKIN SENSITIZATION	:	Category 1, H317
AQUATIC ENVIRONMENT	:	Long term hazard, Category Chronic 2, H411

2.2 LABEL ELEMENTS

SIGNAL WORD	:	Danger
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2.3 HAZARD STATEMENTS

H227	:	Combustible liquid
H315	:	Causes skin irritation
H317	:	May cause an allergic skin reaction
H318	:	Causes serious eye damage
H411	:	Toxic to aquatic life with long lasting effects

PRECAUTIONARY STATEMENTS

P210	:	Keep away from heat, sparks, open, flames, hot surfaces. No smoking
P261	:	Avoid breathing dust, fume, gas, mist, vapors, spray
P280	:	Wear protective gloves, protective clothing, eye protection, face protection
P303 + P352	:	If on skin, wash with plenty of water/soap

P305 + P351 + P338	:	If in contact with eyes, rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P310	:	Immediately call a poison center/doctor
P501	:	Dispose of contents/container to an approved waste disposal plant

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 SUBSTANCES

CONCENTRATION RANGE OF THE CONSTITUENT (% WEIGHT/WEIGHT)	EC NUMBER/REGISTRATION NUMBER	CAS	CHEMICAL NAME
100%	284-524-7	8006-82-4	PIPER NIGRUM FRUIT OIL
<36.00	106-23-0	203-376-6	Citronellal
<23.00	106-24-1	203-388-1	Geraniol
<14.00	106-22-9	203-375-0	Citronellol
<6.00	5989-27-5	227-813-5	(R)-p-Mentha-1,8-diene
<5.00	105-87-4	203-341-5	Genaryl acetate
<2.00	78-70-6	201-134-4	Linalool
<0.50	4602-84-0	225-004-1	Farnesol
<0.10	93-16-3	202-224-6	4-Prop-1-enylveratrole

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

May produce an allergic reaction.

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.

UNSUITABLE EXTINGUISHING MEDIA

Water spray, water jet.

5.2 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

EYES

Use tightly sealed safety goggles.

SKIN

If skin contact or contamination of clothing is likely, protective clothing should be worn. Use protective gloves.

RESPIRATORY

In case of insufficient ventilation, wear suitable respiratory equipment.

INGESTION

Not for ingestion.

HYGIENE PRACTICES

Wash hands with soap and water after handling.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	:	Yellow to Dark Yellow Liquid
ODOR	:	Citric, Fresh, Lemongrass
FLASH POINT	:	85 ° C
RELATIVE DENSITY	:	0.890 g/cm ³ at 20 ° C

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. (Contains
Cymbopogon winteranius oil)
PACKING GROUP : III
CLASS : 9
TUNNEL RESTRICTION CODE : (E)
LABEL :



14.2 SEA TRANSPORT (IMDG)

UN NUMBER : UN3082
PROPER SHIPPING NAME : ENVIRONMENTALLY HAZARDOUS
SUBSTANCE, LIQUID,N.O.S. (Contains
Cymbopogon winteranius oil)
PACKING GROUP : III
CLASS : 9
MARINE POLLUTANT : Yes
LABEL :



14.3 AIR TRANSPORT (ICAO/IATA)

UN NUMBER : UN3082
PROPER SHIPPING NAME : ENVIRONMENTALLY HAZARDOUS
SUBSTANCE, LIQUID, N.O.S. (Contains
Cymbopogon winteranius oil)
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

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