

SAFETY DATA SHEET (SDS)

Version 2.0

Revision Date : April 21,2022

Print Date : March 18, 2023

1. PRODUCT AND COMPANY IDENTIFICATION

Product name	:	Citronella Essential Oil (Java)
Botanical name	:	Cymbopogon winterianus
INCI name	:	Cymbopogon Winterianus Oil
CAS #	:	8000-29-1 (US)/ 91771-61-8 (EU)
Country of Origin	:	Indonesia
EINECS #	:	294-954-7
Product use	:	Domestic and Industrial

2. HAZARDS IDENTIFICATION

Emergency Overview

GHS Classification

Flammable liquids - Category 4

Aspiration Hazard - Category 1

Skin Irritation - Category 2

Serious eye damage/Eye irritation - Category 1

Skin Sensitization - Category 1

Hazardous to aquatic environment - Acute - Category 2

Hazardous to the aquatic environment, long-term hazard - Category 2

GHS Label elements, including precautionary statements



Signal: Danger

Hazard statement(s)

H227	Combustible liquid.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H401	Toxic to aquatic life.
H411	Toxic to aquatic life with long-lasting effects.

Precautionary statement(s)

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P261	Avoid breathing dust/fumes/gas/mist/vapours/spray.
P264	Wash skin thoroughly after handling.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P302+P352	IF ON SKIN: Wash with plenty of water.
P305+P351+P338	IF IN 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
P321	Specific treatment (see section 4 on this label).
P331	Do NOT induce vomiting.
P332+P313	If skin irritation occurs: Get medical advice/attention.
P333+P313	If skin irritation or a rash occurs: Get medical advice/attention.
P362	Take off contaminated clothing.
P363	Wash contaminated clothing before reuse.
P370+P378	In case of fire: Use appropriate fire extinguisher to extinguish.
P391	Collect spillage.
P403+P235	Store in a well ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national regulations.

3. COMPOSITION / INFORMATION INGREDIENTS

Product Name	CAS NO	EC NO	Concentration
Cymbopogon Winterianus Oil	8000-29-1 (US)/91771-61-8(EU)	-	100 %

4. FIRST AID MEASURES

Eye contact

Immediately flush eyes with plenty of cool water for at least 15 minutes. Get medical attention if irritation occurs.

Skin contact

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

Inhalation

If inhaled, removed to fresh air. Get medical attention if symptoms appear.

Ingestion

Seek medical attention or contact local poison control center.

5. FIRE FIGHTING MEASURES

Suitable extinguishing media

Foam. Dry Powder. Carbon dioxide.

Unsuitable extinguishing media

Water spray, water jet.

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.

Special hazards arising from the substance or its combustible products

Hazardous decomposition products may be formed at extreme heat or if burned.

Resulting gases

Carbon oxides.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures.

Refer to Section 8 of Safety Data Sheet for personal protection details. Equip clean crew with proper protection. Respiratory protection equipment may be necessary.

Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.

Methods and materials for containment and cleaning up

Clean up any spills as soon as possible, using an absorbent material to collect it. Use suitable disposal containers.

7. HANDLING AND STORAGE

Precautions for safe handling

Measures should be taken to prevent materials from being splashed into the eyes or on the skin. Wear eye shields and protective clothing. Smoking should not be permitted in work areas. Provide suitable air extraction ventilation in the work areas. Vapors may form explosive mixtures with air. Keep material away from sources of ignition (e.g. hot surfaces, sparks, flame and static discharges).

Conditions for safe storage, including any incompatibilities

To be stored in tightly sealed and preferably full containers in cool, dry and ventilated area. Protect from heat/overheating and light sources. Keep in glass, suitable plastic, aluminum or lacquer-lined containers.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Eyes

Use tightly sealed 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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	A clear light yellow to tan liquid.
Odor	:	Green,Floral,Intense lemon,rosy type odor.
Flash point	:	74°C
Relative density	:	0.875 to 0.893 @ 25°C
Solubility (ies)	:	Soluble in alcohol and oils. Insoluble in water.
Refractive index	:	1.466 to 1.475 @ 20°C
Optical rotation	:	-5° to 0° @ 25°C

10. STABILITY AND REACTIVITY

Reactivity

This material presents no significant reactivity hazard.

Chemical stability

Chemically stable.

Possibility of hazardous reactions

Hazardous polymerization will not occur.

Conditions to avoid

Avoid sparks, flame and other heat sources.

Incompatible materials

Strong oxidizing agents.

Hazardous decomposition products

Carbon Oxides.

11. TOXICOLOGICAL INFORMATION

Carcinogenicity

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

Chronic toxicity

May cause allergic reactions on skin.

Reproductive toxicity

No adverse effects on reproduction are known.

Inhalation

Inhalation of high concentrations of vapor may result in irritation of eyes, nose and throat, headache, nausea, and dizziness.

Skin contact

Adverse skin effects should be prevented by normal care and personal hygiene.

Eye contact

Possible irritation should be prevented by wearing safety glasses.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Toxic to aquatic organisms, may cause long-term adverse effects environment. Avoid any pollution of ground, surface or underground water.

Persistence and degradability

Biodegradable.

Bio - accumulative potential

potential.

Mobility in soil

Readily absorbed into soil.

Other adverse effects

Not available.

13. DISPOSAL CONSIDERATION

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

14. TRANSPORT INFORMATION

UN Number

3082

UN proper shipping name

Environmentally hazardous substance, liquid, n.o.s. (Citronella oil)

Transport hazard class

9

Packing group

III

US DOT Shipping Description (Land)

3082

Proper shipping name

Environmentally hazardous substance, liquid, n.o.s. (Citronella oil)

Class

9

Packaging group

III

IMO-IMDG Shipping Description (Sea)

3082

Proper shipping name

Environmentally hazardous substance, liquid, n.o.s. (Citronella oil)

Class

9

Packaging group

III

IMO-IMDG code

3082

IMDG-Marine pollution

Yes.

IATA Shipping Description (Air)

3082

Proper shipping name

Environmentally hazardous substance, liquid, n.o.s. (Citronella oil)

Class

9

Packaging group

III

Emergency action in case of accident

Notify police and fire department immediately

15. REGULATORY INFORMATION

California Proposition 65

- This product can expose you to beta-Myrcene, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.
- This product can expose you to Methyleugenol, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

GHS Hazard Statements

Please refer to section 2.

GHS Precautionary Statements

Please refer to section 2.

16. OTHER INFORMATION

Revision date : April 21,2022

CERTIFICATE OF ANALYSIS

Product : Citronella Essential Oil (Java)

Lot No : 11229A11022

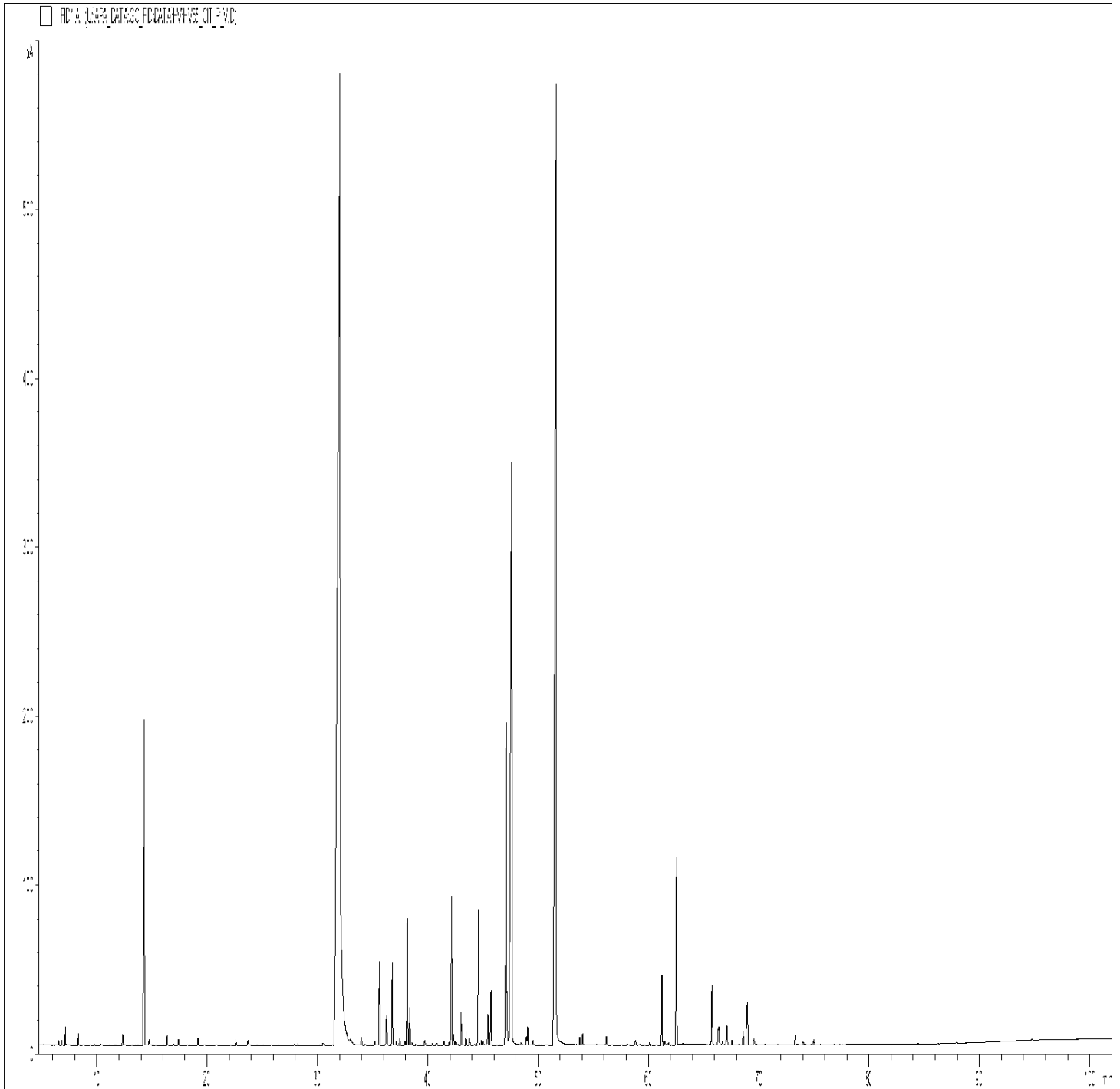
Best Before : October, 2024

<u>Properties</u>	<u>Specifications</u>	<u>Results</u>
Appearance	: Yellow to amber liquid	Complies
Odor	: Characteristic citronellal citrus odor.	Complies
Solubility	: Insoluble in water.	Complies
Specific Gravity	: 0.875 to 0.893 @ 25°C	0.880
Refractive Index	: 1.4660 to 1.4750 @ 20°C	1.468
Optical Rotation	: -5 to +0° @ 25°C	-3.33
Limonene	: 2.5 - 6.0 %	4.02
Citronellol	: 10 - 20 %	11.88
Citronellal	: 30- 45 %	38.88

GCMS ANALYSIS

PRODUCT NAME: CITRONELLA ESSENTIAL OIL (JAVA) - 11229

DATE: July 12, 2022



Due to volume turnover, this report is not lot specific, It is representative of the quality of this oil produced by the manufacturer of this product, Specific lots may vary slightly as is the case in natural products,

GCMS ANALYSIS

PRODUCT NAME: CITRONELLA ESSENTIAL OIL (JAVA) - 11229

PEAK	RT (MIN)	COMPOUND NAME	%
1	5.20	CYCLOALKYL COMPOUND	0.01
2	6.54	TERPENIC COMPOUND	0.03
3	6.85	TRICYCLENE	0.03
4	7.16	α -PINENE	0.10
5	7.20	α -THUYENE	0.02
6	8.33	CAMPHERE	0.09
7	9.79	β -PINENE	0.01
8	10.35	SABINENE	0.02
9	12.36	β -MYRCENE	0.10
10	12.41	α -PHELLANDRENE	0.02
11	13.19	α -TERPINENE	0.01
12	14.31	LIMONENE	3.66
13	14.76	β -PHELLANDRENE	0.05
14	16.38	cis- β -OCIMENE	0.10
15	16.94	γ -TERPINENE	0.02
16	17.39	trans- β -OCIMENE	0.06
17	18.35	p-CYMENE	0.01
18	19.16	TERPINOLENE	0.08
19	22.60	5-HEPTEN-2-ONE, 6-METHYL-	0.06
20	23.67	5-HEPTENAL, 2,6-DIMETHYL-	0.07
21	24.52	ROSE trans-OXIDE	0.01
22	27.89	cis-p-MENTHANE-8-OL	0.02
23	28.22	trans-p-MENTHANE-8-OL	0.02
24	30.51	MENTHONE	0.04
25	30.61	α -CUBEBENE	0.02
26	32.04	CITRONELLAL	39.93
27	32.68	α -COPAENE	0.04
28	32.98	DECANAL	0.08
29	33.55	α -BOURBONENE	0.01
30	33.98	β -BOURBONENE	0.10

GCMS ANALYSIS

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PEAK	RT (MIN)	COMPOUND NAME	%
31	34.29	SESQUITERPENE	0.03
32	35.20	β 1-CUBEBENE	0.05
33	35.61	LINALOOL	0.79
34	36.14	1-OCTANOL	0.02
35	36.26	NEOISOPULEGOL	0.33
36	36.78	ISOPULEGOL	0.90
37	37.15	epsilon-CADINENE	0.04
38	37.46	ELEMENE ISOMER	0.07
39	37.92	α -trans-BERGAMOTENE	0.05
40	38.15	β-ELEMENE	1.45
41	38.36	β -CARYOPHYLLENE	0.42
42	38.57	TERPINENE-4-OL	0.05
43	38.91	6,9-GUAIADIENE	0.02
44	39.73	ISOISOPULEGOL	0.06
45	40.39	CADINA-3,5-DIENE	0.03
46	40.79	GERMACRENE A	0.05
47	41.46	MELONOL	0.05
48	41.93	ZONARENE	0.04
49	42.17	CITRONELLYL ACETATE	1.70
50	42.34	α -HUMULENE	0.12
51	42.55	cis-4,5-MUROLADIENE	0.07
52	42.70	γ -SELINENE	0.02
53	43.01	NERAL	0.37
54	43.47	γ -MUUROLENE	0.15
55	43.78	α -TERPINEOL	0.07
56	43.80	BORNEOL	0.02
57	44.25	GERANYL FORMATE	0.02
58	44.61	GERMACRENE D	1.74
59	44.86	MUROLADIENE ISOMER	0.06
60	45.03	β -SELINENE	0.03

GCMS ANALYSIS

PRODUCT NAME: CITRONELLA ESSENTIAL OIL (JAVA) - 11229

PEAK	RT (MIN)	COMPOUND NAME	%
61	45.10	NERYL ACETATE	0.03
62	45.45	α -MUUROLENE	0.38
63	45.72	GERANIAL	0.57
64	45.80	BICYCLOGERMACRENE	0.04
65	47.11	GERANYL ACETATE	4.10
66	47.18	δ-CADINENE	0.40
67	47.31	γ -CADINENE	0.04
68	47.59	CITRONELLOL	10.81
69	48.45	MYRTENOL	0.02
70	48.50	CADINA-1,4-DIENE	0.03
71	48.94	α -AMORPHENE	0.10
72	49.05	NEROL	0.20
73	49.53	CITRONELLYL BUTYRATE	0.06
74	50.68	GERMACRENE B	0.02
75	51.64	GERANIOL	22.30
76	53.77	Epi-CUBEBOL	0.08
77	54.04	GERANYL BUTYRATE	0.12
78	55.32	SESQUITERPENIC COMPOUND	0.02
79	56.19	CUBEBOL	0.11
80	57.58	SESQUITERPENOL	0.01
81	58.06	ALIPHATIC ESTER	0.01
82	58.18	SESQUITERPENIC COMPOUND	0.02
83	58.83	SESQUITERPENOL	0.08
84	59.19	METHYLEUGENOL	0.02
85	60.09	SESQUITERPENOL	0.03
86	61.22	GERMACRENE D-4-OL	0.83
87	61.50	Epi-CUBENOL	0.07
88	61.84	CUBENOL	0.05
89	62.55	ELEMOL	2.82
90	63.14	GERANYL CAPROATE	0.02

GCMS ANALYSIS

PRODUCT NAME: CITRONELLA ESSENTIAL OIL (JAVA) - 11229

PEAK	RT (MIN)	COMPOUND NAME	%
91	63.48	10-epi- γ -EUDESMOL	0.02
92	65.76	EUGENOL	0.77
93	66.33	γ -EUDESMOL	0.18
94	66.40	T-CADINOL	0.20
95	66.72	METHYLISOEUGENOL	0.07
96	66.89	AGAROSPIROL	0.01
97	67.11	α -MUUROL	0.25
98	67.57	δ -CADINOL	0.07
99	68.21	α -BISABOL	0.02
100	68.59	α -EUDESMOL	0.17
101	68.96	α -CADINOL	0.67
102	69.56	CITRONELIC ACID	0.11
103	69.83	EUDESMA-7(11)-EN-4-OL	0.02
104	70.56	FARNESYL ACETATE	0.02
105	71.71	TERPENIC COMPOUND	0.01
106	73.30	ISOEUGENOL	0.14
107	74.02	E,E-FARNESOL	0.05
108	74.99	GERANYLGERANIOL ISOMER	0.06
109	80.73	EUGENOL, METHOXY-	0.02
110	87.94	ALIPHATIC ESTER	0.02
111	100.05	AROMATIC COMPOUND	0.03
		TOTAL	99.87

Limitación de Responsabilidad

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