

SAFETY DATA SHEET (SDS)

Version 2.0

Revision Date : April 21,2022

Print Date : March 18, 2023

1. PRODUCT AND COMPANY IDENTIFICATION

Product name	:	Ginger Essential Oil - Dried -Verified by ECOCERT/Cosmos Approved.
Botanical name	:	Zingiber officinale
INCI name	:	Zingiber Officinale Root Oil
CAS #	:	8007-08-7
Country of OriginProd	:	China
uct use	:	Domestic and Industrial

2. HAZARDS IDENTIFICATION

Emergency Overview

GHS Classification

Flammable liquids - Category 4

Aspiration Hazard - Category 1

Skin Irritation - Category 2

Skin Sensitization - Category 1

Serious eye damage/eye irritation - Category 2A

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.
H319	Causes serious eye irritation.
H411	Toxic to aquatic life with long-lasting effects.

Precautionary statement(s)

P264	Wash hands thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P312	IF SWALLOWED: Call a POISON CENTER/doctor/if you feel unwell.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.
P332+P313	If skin irritation occurs: Get medical advice/attention.
P333+P313	If skin irritation or a rash occurs: Get medical advice/attention.
P337+P313	If eye irritation persists get medical advice/attention.
P363	Wash contaminated clothing before reuse.
P403+P235	Store in a well ventilated place. Keep cool.
P501	Dispose of contents and container in accordance with local, regional, national and/or international regulation for hazardous wastes.

3. COMPOSITION / INFORMATION INGREDIENTS

Product Name	CAS NO	EC NO	Concentration
Zingiber Officinale Root Oil	8007-08-7	-	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.

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

No direct lighting. No smoking. 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.

Conditions for safe storage, including any incompatibilities

Provide local exhaust or general room ventilation to minimize dust and/or vapour concentrations. Keep container closed when not in use.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure controls

Provide adequate ventilation, which can be achieved by using good local exhaust-ventilation and a good general exhaust system. If this were not enough to keep the concentrations below the work exposure limit, suitable breathing equipment must be used.

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.

Control parameters

Not available.

Exposure limit values

Not available

Biological limit values

Not available.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	Pale yellow to yellow liquid.
Odor	:	Characteristic ginger odor.
Flash point	:	65°C
Relative density	:	0.873 to 0.885 @ 20°C
Solubility (ies)	:	Insoluble in water.
Refractive index	:	1.488 to 1.494 @ 20°C
Optical rotation	:	-45° to -26° @ 20°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

Acute toxicity

Not available.

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.

Ingestion

Low order toxicity causing irritation of the stomach and intestines which results in nausea and vomiting

12. ECOLOGICAL INFORMATION

Ecotoxicity

Avoid any pollution of ground, surface or underground water.

Persistence and degradability

Not available.

Bio - accumulative potential

Not available.

Mobility in soil

Not available.

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. (Ginger oil)

Transport hazard class

9

Packing group

III

US DOT Shipping Description (Land)

3082

Proper shipping name

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

Class

9

Packaging group

III

IMO-IMDG Shipping Description (Sea)

3082

Proper shipping name

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

Class

9

Packaging group

III

IATA Shipping Description (Air)

3082

Proper shipping name

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

Class

9

Packaging group

III

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.

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 : **Ginger Root Essential Oil - Dried - Verified by ECOCERT / Cosmos Approved**

Lot No : 11063A10822

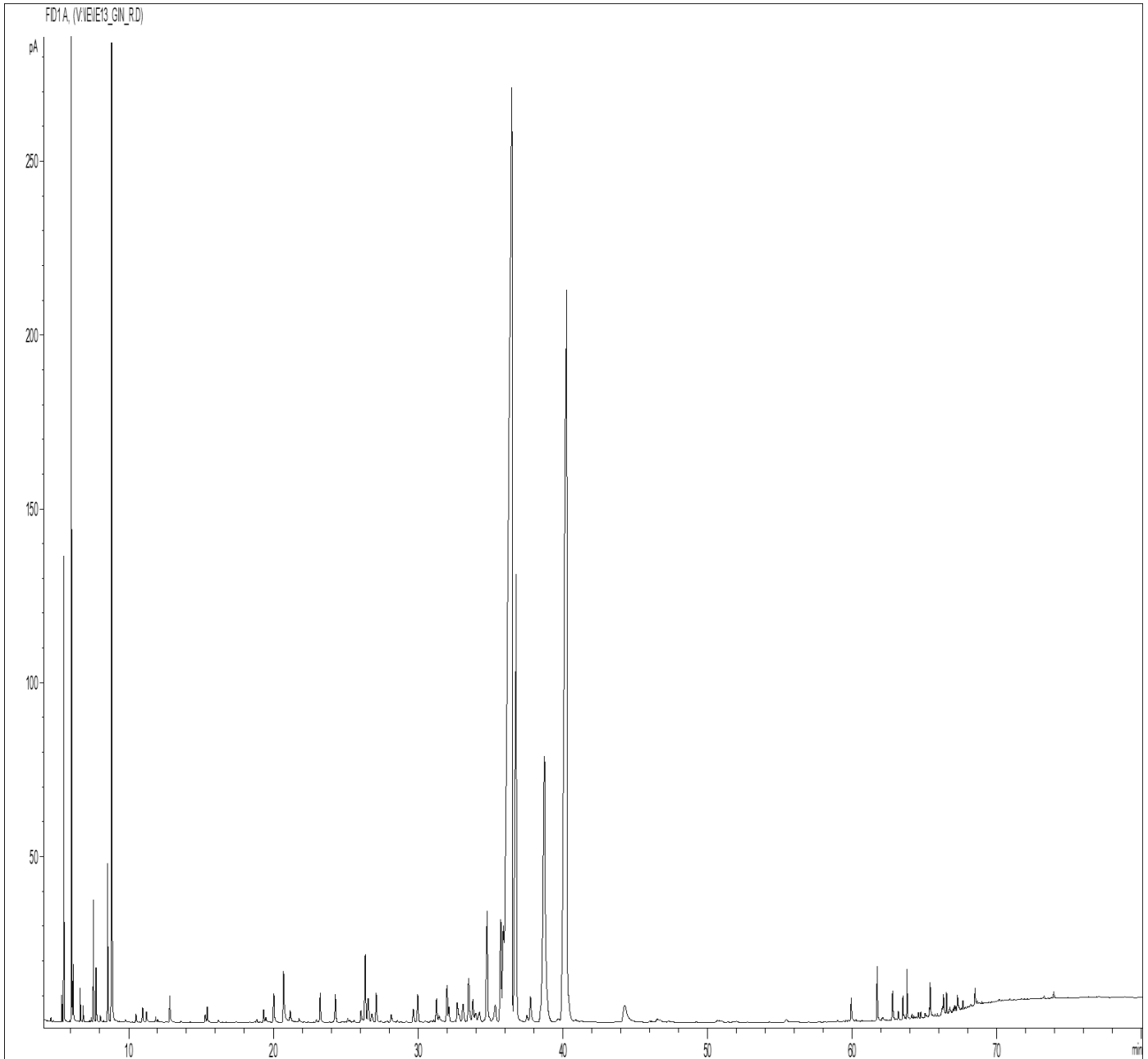
Best Before : August, 2024

<u>Properties</u>	<u>Specifications</u>	<u>Results</u>
Appearance	: Pale yellow to yellow liquid.	Complies
Odor	: Characteristic ginger odor.	Complies
Solubility	: Insoluble in water.	Complies
Specific Gravity	: 0.8700 to 0.882 @ 20°C	0.8730
Refractive Index	: 1.488 to 1.494 @ 20°C	1.499
Optical Rotation	: -28° to -45° @ 20°C	-32.20
α -Zingiberene	: > 30 %	32.51

GCMS ANALYSIS

PRODUCT NAME: GINGER ROOT ESSENTIAL OIL (DRIED) - VERIFIED BY ECOCERT/COSMOS
APPROVED - 11063

DATE: August 18, 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 (cont'd)

PRODUCT NAME: GINGER ROOT ESSENTIAL OIL (DRIED) - VERIFIED BY ECOCERT/COSMOS
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Peak	RT (min)	COMPOUND name	%
1	5,39	TRICYCLENE	0,10
2	5,53	alpha-PINENE	1,74
3	5,67	alpha-THUYENE	0,01
4	6,06	CAMPHENE	4,35
5	6,17	HEXANAL	0,31
6	6,67	beta-PINENE	0,15
7	6,86	SABINENE	0,07
8	7,42	delta3-CARENE	0,02
9	7,58	beta-MYRCENE	0,56
10	7,76	alpha-PHELLANDRENE	0,27
11	7,82	psi-LIMONENE	0,04
12	8,06	2-HEPTANONE	0,02
13	8,10	alpha-TERPINENE	0,03
14	8,56	LIMONENE	0,98
15	8,83	1,8-CINEOLE	6,23
16		beta-PHELLANDRENE	
17	9,79	gamma-TERPINENE	0,02
18	10,50	p-CYMENE	0,07
19	10,96	TERPINOLENE	0,12
20	11,23	OCTANAL	0,09
21	11,86	1,3,7-NONATRIENE, 4,8-DIMETHYL-	0,03
22	12,00	2-HEPTANOL	0,02
23	12,84	5-HEPTEN-2-ONE, 6-METHYL-	0,23
24	15,29	2-NONANONE	0,06
25	15,43	ROSEFURAN	0,13
26	16,20	PERILLENE	0,02
27	18,86	alpha-CUBEBENE	0,03
28	19,34	delta-ELEMENE	0,11
29	19,49	CITRONELLAL	0,05
30	20,04	BICYCLOELEMENE	0,29
31		ISOLEDENE	

GCMS ANALYSIS (cont'd)

PRODUCT NAME: GINGER ROOT ESSENTIAL OIL (DRIED) - VERIFIED BY ECOCERT/COSMOS
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Peak	RT (min)	COMPOUND name	%
32	20,14	YLANGENE	0,02
33	20,71	alpha-COPAENE	0,49
34	20,78	DECANAL	0,14
35	21,17	CAMPHOR	0,14
36	21,78	2-NONANOL	0,04
37	22,99	TERPENIC COMPOUND	0,03
38	23,25	beta1-CUBEBENE	0,12
39	23,29	LINALOOL	0,17
40	24,30	alpha-cis-BERGAMOTENE	0,28
41	25,15	epsilon-CADINENE	0,04
42	25,29	BORNYL ACETATE	0,02
43	25,59	ELEMENE ISOMER	0,02
44	26,06	alpha-trans-BERGAMOTENE	0,12
45	26,18	beta-CARYOPHYLLENE	0,04
46	26,36	beta-ELEMENE	0,74
47	26,56	ROSEFURAN OXIDE	0,30
48	26,82	TERPINENE-4-OL	0,14
49	27,12	2-UNDECANONE	0,32
50	27,45	COMPOUND Mw=152	0,02
51	27,88	SESQUITERPENE	0,01
52	28,15	GURJUNENE ISOMER	0,09
53	28,58	MYRTENAL	0,02
54	29,22	cis-p-MENTH-2-EN-1-OL	0,01
55	29,69	GERMACRENE A	0,15
56	29,99	ALLO-AROMADENDRENE	0,33
57	30,87	MELONOL	0,01
58	31,09	ZONARENE	0,02
59	31,29	FARNESENE ISOMER	0,27
60	31,46	SESQUITERPENE	0,09

GCMS ANALYSIS (cont'd)

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Peak	RT (min)	COMPOUND name	%
61	31,57	alpha-HUMULENE	0,04
62	31,70	SESQUITERPENE	0,02
63	32,01	E-beta-FARNESENE	0,42
64	32,15	gamma-SELINENE	0,18
65	32,55	SESQUITERPENE	0,01
66	32,73	NERAL	0,26
67	32,85	Z-beta-FARNESENE	0,09
68	33,12	gamma-MUUROLENE	0,28
69	33,51	BORNEOL	0,63
70	33,80	alpha-TERPINEOL	0,30
71	33,99	CURCUMENE ISOMER	0,15
72	34,20	SESQUITERPENE	0,05
73	34,27	ARISTOLOCHENE ISOMER	0,14
74	34,62	SESQUITERPENE	0,02
75	34,79	GERMACRENE D	1,50
76	34,93	SESQUITERPENE	0,05
77	35,20	SESQUITERPENE	0,03
78	35,35	SESQUITERPENE	0,32
79	35,73	SESQUITERPENE	1,29
80	35,91	SESQUITERPENE	1,44
81	36,49	alpha-ZINGIBERENE	33,76
82	36,54	SESQUITERPENE	0,12
83	36,80	beta-BISABOLENE	6,98
84		GERANIAL	
85	37,54	SESQUITERPENE	0,09
86	37,78	SESQUITERPENE	0,37
87	38,51	TERPENIC COMPOUND	0,15
88	38,75	E,E-alpha-FARNESENE	5,78
89		delta-CADINENE	
90	38,76	7-epi-alpha-SELINENE	0,69

GCMS ANALYSIS (cont'd)

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Peak	RT (min)	COMPOUND name	%
91	39,68	CITRONELLOL	0,07
92	40,27	beta-SESQUIPELLANDRENE	12,68
93	40,37	alpha-CURCUMENE	7,33
94	40,89	SESQUITERPENE Mw=202	0,04
95	40,98	SESQUITERPENE	0,02
96	41,28	SESQUITERPENE Mw=202	0,02
97	44,30	GERMACRENE B	0,57
98	44,51	cis-CALAMENENE	0,07
99	44,69	trans-CALAMENENE	0,03
100	45,99	AROMATIC COMPOUND	0,01
101	46,11	SESQUITERPENE Mw=202	0,01
102	46,53	GERANIOL	0,07
103	46,72	AROMATIC COMPOUND	0,03
104	47,32	E-GERANYL ACETONE	0,02
105	50,68	Epi-CUBEBOL	0,03
106	50,81	SESQUITERPENOL	0,02
107	50,97	SESQUITERPENONE	0,02
108	51,98	alpha-CALACORENE	0,02
109	55,44	CUBEBOL	0,05
110	58,98	COMPOUND Mw=200	0,02
111	59,39	SESQUITERPENOL	0,01
112	59,56	IONONE ISOMER	0,02
113	59,74	SANTALOL ISOMER	0,02
114	59,93	TERPENIC OXIDE	0,13
115	60,00	AROMATIC COMPOUND	0,11
116	60,03	ALIPHATIC ESTER	0,03
117	60,26	KETONIC COMPOUND	0,02
118	61,73	NEROLIDOL	0,35
119	61,79	SESQUITERPENOL	0,03
120	62,08	GERMACRENE D-4-OL	0,02

GCMS ANALYSIS (cont'd)

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Peak	RT (min)	COMPOUND name	%
121	62,13	AROMATIC COMPOUND	0,03
122	62,26	AROMATIC COMPOUND	0,01
123	62,76	GERANYL-alpha-TERPINENE ISOMER	0,03
124	62,80	ELEMOL	0,22
125	62,87	SESQUITERPENOL	0,02
126	62,99	SESQUITERPENOL	0,01
127	63,06	GUAIOL	0,01
128	63,19	10-epi-gamma-EUDESOL	0,07
129	63,50	TERPENIC OXIDE	0,16
130	63,59	TERPENIC COMPOUND	0,03
131	63,79	beta-SESQUIPELLANDROL	0,31
132	63,91	AROMATIC COMPOUND	0,01
133	64,13	EUDESOL ISOMER	0,04
134	64,26	SESQUITERPENOL	0,02
135	64,41	SESQUITERPENOL	0,01
136	64,58	TERPENIC COMPOUND	0,05
137	64,74	beta-BISABOLOL	0,05
138	65,03	MINT SULFIDE	0,03
139	65,06	gamma-EUDESOL	0,01
140	65,15	T-CADINOL	0,02
141	65,34	METHYLISOEUGENOL	0,05
142	65,40	SESQUIPELLANDROL ISOMER	0,21
143	65,45	4-VINYL-GUAIACOL	0,03
144	65,56	SESQUITERPENOL	0,02
145	65,73	SESQUITERPENOL	0,02
146	65,89	SESQUITERPENOL	0,02
147	66,18	alpha-BISABOLOL	0,02
148	66,23	alpha-EUDESOL	0,06
149	66,31	beta-EUDESOL	0,12
150	66,33	alpha-CADINOL	0,06

GCMS ANALYSIS (cont'd)

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Peak	RT (min)	COMPOUND name	%
151	66,42	SESQUITERPENOL	0,01
152	66,52	TERPENIC OXIDE	0,13
153	66,70	SESQUITERPENOL	0,01
154	66,74	EUDESMA-7(11)-EN-4-OL	0,04
155	66,80	AROMATIC COMPOUND	0,02
156	67,00	GERANYL- α -TERPINENE	0,03
157	67,08	CAPRIC ACID	0,04
158	67,15	COMPOUND Mw=152	0,03
159	67,28	AROMATIC COMPOUND	0,13
160	67,37	DITERPENIC COMPOUND	0,04
161	67,55	AROMATIC COMPOUND	0,01
162	67,66	GERANYL-p-CYMENE	0,06
163	67,82	TERPENIC OXIDE	0,02
164	67,97	AROMATIC COMPOUND	0,01
165	68,19	ISOEUGENOL	0,03
166	68,48	ZINGIBERENOL	0,14
167	68,64	AROMATIC COMPOUND	0,02
168	70,16	TERPENIC ALCOHOL	0,02
169	73,26	SESQUITERPENOL	0,01
170	73,32	XANTHORRHIZOL	0,01
171	73,93	ACORENONE	0,06
172	77,02	ZINGIBEROL	0,01
173	77,07	SESQUITERPENOL	0,01
		TOTAL	99,99

Limitación de Responsabilidad

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