



Certificate of Analysis

May 24, 2023

Product Description

Name: Lavendar Oil	Plant Part: Aerial parts
Botanical Name: <i>Lavandula angustifolia</i>	Lot: K0G0523E
Item Code: LavAng7	CAS #: 90063-37-9; 8000-28-0
Country of Origin: USA	Date of Production: August 1, 2022
Production Method: Steam distillation	Expiration Date: August 1, 2026

Technical Information

<u>Organolectic:</u>	<u>RESULT</u>	<u>SPECIFICATION</u>
Appearance: Semi-Opaque, Mobile Liquid	Pass	Conforms to standard
Aroma: Floral, Sweet, Characteristic	Pass	Conforms to standard
Color: Colorless to Pale Yellow	Pass	Conforms to standard

Physical Constants @ 20°C

<u>ANALYSIS</u>	<u>METHOD</u>	<u>RESULT</u>	<u>SPECIFICATION</u>
Optical Rotation:	USP <781>	-7.60	(-12.5 to -5)
Refractive Index:	USP <831>	1.46433	(1.4500 to 1.4700)
Specific Gravity:	USP <841>	0.89129	(0.8720 to 0.9000)

Chemical Analysis

<u>ANALYSIS</u>	<u>METHOD</u>	<u>RESULT</u>	<u>SPECIFICATION</u>
GC-MS	USP <621> & USP <736>	Pass	Conforms to standard

Storage Information

OILS SHOULD BE STORED IN AN AIRTIGHT CONTAINER RANGING FROM 59°F to 71°F. AVOID EXPOSURE TO LIGHT.

Quality Laboratory:

CERTIFICATE OF ANALYSIS DISCLAIMER

Submission and receipt of this C of A does not preclude the purchaser or manufacturer from research in finished product or consumer use. Artisan Aromatics advises the manufacturer test the suitability in all applications intended for retail use. Artisan Aromatics does not advise any specific use of this oil.



Artisan
AROMATICS

Lavender Oil

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 12/01/2021

SECTION 1: Identification

1.1. Identification

Product form	:	Substance
Substance name	:	Lavender Oil
CAS-No.	:	8000-28-0
Product code	:	LavAng5
Synonyms	:	<i>Lavandula angustifolia</i>

1.2. Recommended use and restrictions on use

No additional information available

1.3. Supplier

Artisan Aromatics
1708 Lena Street, #103 Santa Fe, NM 87505
Stephanie Ariel
hello@artisanaromatics.com

1.4. Emergency telephone number

Emergency number : ChemTel: 1-800-255-3924 (Domestic) 1-813-248-0585 (International)

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS-US classification

Flammable liquids Category 4	H227	Combustible liquid
Aspiration Hazard Category 1	H304	May be fatal if swallowed and enters airways
Skin corrosion/irritation Category 2	H315	Causes skin irritation
Serious eye damage/eye irritation Category 2	H319	Causes serious eye irritation
Skin sensitization, Category 1	H317	May cause an allergic skin reaction
Aquatic Toxicity – Acute Category 2	H401	Toxic to aquatic life
Aquatic Toxicity – Chronic Category 3	H412	Harmful to aquatic life with long lasting effects

Full text of H statements : see section 16

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2.2. GHS Label elements, including precautionary statements

GHS-US labeling

Hazard pictograms (GHS-US)



Signal word (GHS-US)

: Warning

Hazard statements (GHS-US)

: 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
H401 - Toxic to aquatic life
H412 - Harmful to aquatic life with long lasting effects

Precautionary statements (GHS-US)

: P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P261 - Avoid breathing dust/fume/gas/mist/vapors/spray.
P264 - Wash hands, forearms and face thoroughly after handling.
P272 - Contaminated work clothing must 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 or doctor/physician
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
P331 - Do not induce vomiting
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
P337+P313 - If eye irritation persists: Get medical advice/attention.
P363 - Wash contaminated clothing before reuse.
P370+P378 - In case of fire: Use media other than water to extinguish.
P403+P235 - Store in a well-ventilated place. Keep cool.
P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation

2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/Information on ingredients

3.1. Substances

Name	Product identifier	%	GHS-US classification
Lavender Oil (Main constituent)	(CAS-No.) 8000-28-0	<= 100	Flam. Liq. 4, H227 Asp. Tox. 1, H304 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aqu. Tox. Acute 2, H401 Aqu. Tox. Chronic 3, H412

Full text of hazard classes and H-statements : see section 16

3.2. Mixtures

Not applicable

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 4: First-aid measures

4.1. Description of first aid measures

- First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.
- First-aid measures after skin contact : Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.
- First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
- First-aid measures after ingestion : Call a poison center or a doctor if you feel unwell.

4.2. Most important symptoms and effects (acute and delayed)

- Symptoms/effects after skin contact : Irritation. May cause an allergic skin reaction.
- Symptoms/effects after eye contact : Irritation to eyes.
- Symptoms/effects after ingestion : May be fatal if swallowed and enters airways

4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

- Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

5.2. Specific hazards arising from the chemical

- Fire hazard : Combustible liquid.
- Reactivity : The product is non-reactive under normal conditions of use, storage and transport.

5.3. Special protective equipment and precautions for fire-fighters

- Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

- Emergency procedures : Ventilate spillage area. NO open flames, NO sparks, and NO smoking. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapors/spray.

6.1.2. For emergency responders

- Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

- Methods for cleaning up : Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters.
- Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 8 : Exposure-controls/personal protection".

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Precautions for safe handling : Ensure good ventilation of the work station. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Wear personal protective equipment. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapors/spray.
- Hygiene measures : Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

- Storage conditions : Store in a well-ventilated place. Keep cool.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Appropriate engineering controls

- Appropriate engineering controls : Ensure good ventilation of the work station.
- Environmental exposure controls : Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

Hand protection:

Protective gloves

Eye protection:

Safety glasses

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Color	: No data available
Odor	: No data available
Odor threshold	: No data available
pH	: No data available
Melting point	: Not applicable
Freezing point	: No data available
Boiling point	: No data available
Flash point	: 74 °C
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: Not applicable.
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: No data available
Solubility	: No data available
Log Pow	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

10.4. Conditions to avoid

Avoid contact with hot surfaces. Heat. No flames, No sparks. Eliminate all sources of ignition.

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity	:	Not classified
Skin corrosion/irritation	:	Causes skin irritation.
Serious eye damage/irritation	:	Causes serious eye irritation.
Respiratory or skin sensitization	:	May cause an allergic skin reaction.
Germ cell mutagenicity	:	Not classified
Carcinogenicity	:	Not classified
Reproductive toxicity	:	Not classified
Specific target organ toxicity – single exposure	:	Not classified
Specific target organ toxicity – repeated exposure	:	Not classified
Aspiration hazard	:	May be fatal if swallowed or enters airways.
Symptoms/effects after skin contact	:	Irritation. May cause an allergic skin reaction.
Symptoms/effects after eye contact	:	Irritation to eyes.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general	:	Harmful to aquatic life with long lasting effects.
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12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Disposal methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT

Transport document description : NA1993 Combustible liquid, n.o.s., 3, III

UN-No.(DOT) : NA1993

Proper Shipping Name (DOT) : Combustible liquid, n.o.s.

Class (DOT) : 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120

Packing group (DOT) : III - Minor Danger

DOT Packaging Non Bulk (49 CFR 173.xxx) : 203

DOT Packaging Bulk (49 CFR 173.xxx) : 241

DOT Symbols : D - Proper shipping name for domestic use only, or to and from Canada,G - Identifies PSN requiring a technical name

DOT Special Provisions (49 CFR 172.102) : IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672).
T1 - 1.5 178.274(d)(2) Normal..... 178.275(d)(2)
T4 - 2.65 178.274(d)(2) Normal..... 178.275(d)(3)
TP1 - The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling = $97 / 1 + a (tr - tf)$ Where: tr is the maximum mean bulk temperature during transport, and tf is the temperature in degrees celsius of the liquid during filling.

DOT Packaging Exceptions (49 CFR 173.xxx) : 150

DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27) : 60 L

DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75) : 220 L

DOT Vessel Stowage Location : A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.

Emergency Response Guide (ERG) Number : 128

Other information : No supplementary information available.

Transportation of Dangerous Goods

Not applicable

Transport by sea

Not regulated

Air transport

Not regulated

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SECTION 15: Regulatory information

15.1. US Federal regulations

Lavender Oil (8000-28-0)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

15.2. International regulations

CANADA

Lavender Oil (8000-28-0)

Listed on the Canadian DSL (Domestic Substances List) inventory.

EU-Regulations

No additional information available

National regulations

No additional information available

15.3. US State regulations

No additional information available

SECTION 16: Other information

Full text of H-phrases:

H227	Combustible liquid
H304	May be fatal if swallowed or enters airways
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H401	Toxic to aquatic life
H412	Harmful to aquatic life with long lasting effects

SDS US (GHS HazCom 2012)

Company Disclaimer:

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Artisan Aromatics shall not be held liable for any damage resulting from handling or from contact with the above product.

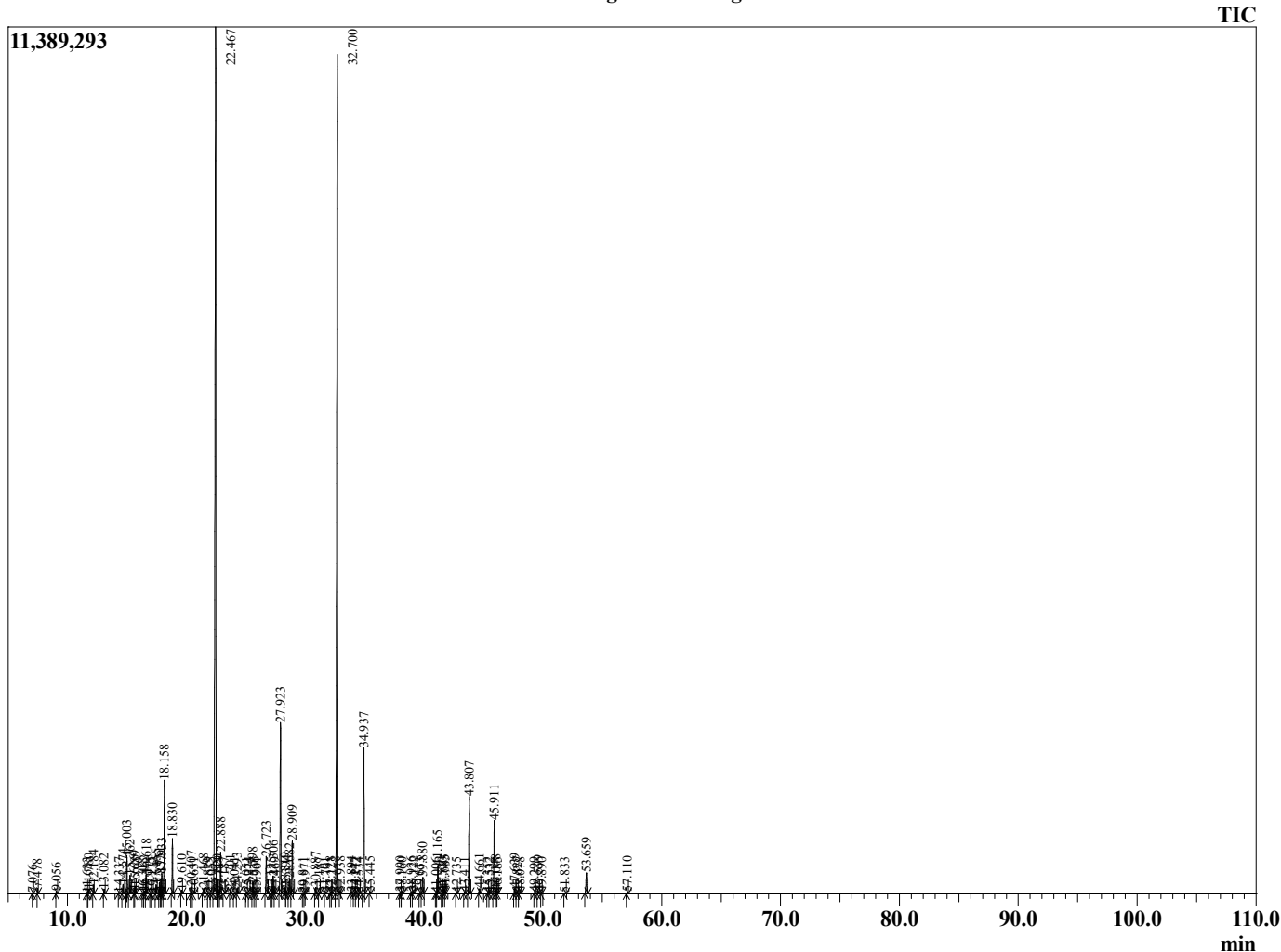
Sample Information

Analyzed by : A. Gibbs
 Analyzed : 5/23/2023 12:54:40 PM
 Sample Type : Essential Oil
 Sample Name : LavAng7
 Injection Volume : 0.10
 Lot Number : K0G0523E
 Instrument ID : GC-2

Peak Report TIC

R.Time	Name	Area%
3.593	Methylbutenol	0.02
7.076	Butyl acetate	0.01
7.478	Diola	0.09
9.056	Hexanol	0.05
11.633	Tricyclene	0.02
11.780	alpha-Thujene	0.10
12.184	alpha-Pinene	0.19
13.082	Camphene	0.11
14.337	beta-Thujene	0.02
14.674	Vinyl amyl carbinol	0.25
15.003	3-Octanone	0.91
15.262	Myrcene	0.47
15.626	Butyl butanoate	0.06
15.689	3-Octanol	0.19
16.318	alpha-Phellandrene	0.01
16.462	delta-3-Carene	0.06
16.618	Hexyl acetate	0.49
16.975	alpha-Terpinene	0.02
17.133	para-Cymenene	0.03
17.455	para-Cymene	0.24
17.751	Limonene	0.28
17.857	beta-Phellandrene	0.06
17.933	1,8-Cineole	0.54
18.158	cis-beta-Ocimene	2.86
18.830	trans-beta-Ocimene	1.42
19.610	gamma-Terpinene	0.09
20.407	cis-Linalool oxide (furanoid)	0.22
20.631	alpha-Pinene oxide	0.03
21.468	trans-Linalool oxide	0.21
21.829	Rosefuran	0.03
22.055	alpha-Pinene oxide	0.02
22.467	Linalool	34.54
22.620	Hotrienol	0.10
22.719	hexyl-Propionate	0.06
22.888	Octen-3-yl acetate	1.16
23.187	Unidentified	0.02
23.701	3-octyl acetate	0.10
24.041	cis-para-Menth-2-en-1-ol	0.03
24.293	trans-Alloocimene	0.17
25.051	cis-Myroxide	0.03
25.274	Unidentified	0.01
25.598	Camphor	0.34
25.736	Unidentified	0.02
25.901	Nerol oxide	0.02
26.723	Lavandulol	1.09
27.135	cis-Linalool oxide (pyranoid)	0.04
27.306	Borneol	0.52
27.469	trans-Linalool oxide (pyranoid)	0.03
27.923	Terpinen-4-ol	5.07
28.319	Cryptone	0.17
28.394	Terpendiol	0.06
28.682	Hexyl butanoate	0.48
28.909	alpha-Terpineol	1.57
29.811	Unidentified	0.02
29.971	Unidentified	0.02
30.887	Nerol	0.19
31.187	Isobornyl formate	0.03
31.701	Hexyl-2-methylbutanoate	0.04
32.128	Cuminaldehyde	0.06
32.223	Carvone	0.02
32.700	Linalyl acetate	30.77
32.938	Unidentified	0.07

Chromatogram LavAng7



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R.Time	Name	Area%
33.894	Unidentified	0.05
34.147	Unidentified	0.04
34.272	Unidentified	0.02
34.534	Phellandral	0.02
34.937	Lavandulyl acetate	4.59
35.445	Unidentified	0.04
37.990	Tiglate hexyl	0.04
38.160	Unidentified	0.04
38.926	Unidentified	0.06
39.122	Unidentified	0.07
39.633	Unidentified	0.02
39.880	Geranyl acetate	0.50
41.006	alpha-Copaene	0.01
41.165	Neryl acetate	0.88
41.520	beta-Bourbonene	0.03
41.683	Hexyl hexanoate	0.12
41.785	alpha-Funebrene	0.07
42.735	7-epi-Sesquithujene	0.03
43.411	cis-alpha-Bergamotene	0.04
43.807	beta-Caryophyllene	3.46
44.661	Unidentified	0.16
45.352	Isocaryophyllene	0.03
45.532	epi-beta-Santalene	0.02
45.911	trans-beta-Farnesene	2.30
46.048	alpha-Humulene	0.09
46.185	cis, trans-alpha-Farnesene	0.02
47.639	Germacrene D	0.17
47.827	trans,beta-Bergamotene	0.05
48.078	Unidentified	0.07
49.299	beta-Bisabolene	0.03
49.599	gamma-Cadinene	0.08
49.890	Ionone isomer	0.04
51.833	Unidentified	0.03
53.659	Caryophyllene oxide	0.76
57.110	alpha-Muurolol	0.06
		100.00