



Lemon Verbena Fragrance Oil

Safety Data Sheet

SECTION 1: Identification of the substance/mixture and of the company/undertaking

- 1.1 Product name:** Lemon Verbena Fragrance Oil
Product code: 303-238X
- 1.2 Intended use:** Compound used in customer substance/mixture/product.
- 1.3 Supplier:**
Majestic Mountain Sage Inc
2490 S 1350 W
Nibley, 84321 - United States of America
T 435.755.0863 - F 435.755.2108
www.TheSage.com
- 1.4 Emergency telephone number**
No additional information available

SECTION 2: Hazards Identification

2.1 Physical hazards

Flammable liquids Category 3

2.2 Health hazards

Acute toxicity, oral Category 4
Acute toxicity, inhalation Category 4
Skin corrosion/irritation Category 2
Serious eye damage/irritation Category 2
Sensitization, skin Category 1
Carcinogenicity Category 2

2.3 Environmental hazards

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

2.4 OSHA defined hazards

Not classified

2.5 Label elements



Signal Word:

Warning

2.6 Hazard Statements

Flammable liquid and vapor. Harmful if swallowed. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Harmful if inhaled. Suspected of causing cancer. Toxic to aquatic life. Toxic to aquatic life with long lasting effects.

2.7 Precautionary Statements

Prevention:

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Avoid breathing mist or vapor. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well ventilated area. Wear eye protection/face protection. Wear protective gloves/protective clothing/eye protection/face protection.

Response:

If swallowed: Call a poison center/doctor if you feel unwell. If on skin (or hair): Immediately take off all contaminated clothing. Rinse skin with water/shower. If inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If exposed or concerned: Get medical advice/attention. Call a poison center/doctor if you feel unwell. Rinse mouth. If skin irritation or rash occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash before reuse. In case of fire: Use appropriate media to extinguish. Collect spillage.

Storage

Store in a well-ventilated place. Keep cool. Store locked up.

Disposal

Dispose of contents/container in accordance with local/ regional/ national/ international regulations.

2.8 Hazard(s) not otherwise classified (HNOC)

None known

2.9 Supplemental information

95.99% of the mixture consists of component(s) of unknown acute oral toxicity. 73.37% of the mixture consists of component(s) of unknown acute inhalation toxicity. 75.85% of the mixture consists of component(s) of unknown acute hazards to the aquatic environment. 50.11% of the mixture consists of component(s) of unknown long-term hazards to the aquatic environment.

SECTION 3: Composition/information on ingredients

3.1 Mixtures

Chemical Name	CAS #	%
Diethyl phthalate	84-66-2	20 - < 30*
Lemon Terpenes	68917-33-9	10 - < 20*
Lemongrass oil	8007-02-1	5 - < 10*
Lime oil terpenes	68917-71-5	5 - < 10*
Linalool	78-70-6	5 - < 10*
Linalyl acetate	115-95-7	5 - < 10*
1,3,4,6,7,8-Hexahydro-4,6,6,7,8,8-hexamethylcyclopenta-gamma-2-benzopyran	1222-05-5	1 - < 3*
3 and 4-(4-Hydroxy-4-methylpentyl)-3-cyclohexene-1-carboxaldehyde	31906-04-4	1 - < 3*
Benzyl acetate	140-11-4	1 - < 3*
Benzyl alcohol	100-51-6	1 - < 3*
Dihydromyrcenol	18479-58-8	1 - < 3*
Geranyl acetate	105-87-3	1 - < 3*
Grapefruit oil	8016-20-4	1 - < 3*
Lavandin abrialis oil	8022-15-9	1 - < 3*
Lime oil	8008-26-2	1 - < 3*
Orange oil	8008-57-9	< 1*

Petitgrain oil terpeneless	68915-85-5	< 1*
Basil oil	8015-73-4	< 0.2*
Clary sage oil	8016-63-5	< 0.2*
Coriander seed oil	8008-52-4	< 0.2*
dl-Citronellol	106-22-9	< 0.2*
Geraniol	106-24-1	< 0.2*
Isocyclocitral	1335-66-6	< 0.2*
Lemon oil	8008-56-8	< 0.2*
Petitgrain oil	8014-17-3	< 0.2*
alpha-Pinene	80-56-8	< 0.1*
Butylated hydroxytoluene	128-37-0	< 0.1*
Citral	5392-40-5	< 0.1*
Diphenyl ether	101-84-8	< 0.1*
Other components below reportable levels		5 - < 10

*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

SECTION 4: First aid measures

4.1 First aid measures

Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Oxygen or artificial respiration if needed. Call a POISON CENTER or doctor/physician if you feel unwell.
Skin contact	Remove contaminated clothing immediately and wash skin with soap and water. In case of eczema or other skin disorder: Seek medical attention and take along these instructions. Wash contaminated clothing before reuse.
Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.
Ingestion	Rinse mouth. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Get medical advice/attention if you feel unwell.

4.2 Most important symptoms and effects, both acute and delayed

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation: May cause redness and pain. May cause an allergic skin reaction. Dermatitis. Rash.

4.3 Indication of any immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. Thermal burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

4.4 General information

Take off all contaminated clothing immediately. IF exposed or concerned: Get medical advice/attention. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before reuse.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable	Alcohol resistant foam. Water fog. Dry chemical powder. Carbon dioxide (CO ₂).
Unsuitable	Do not use water jet as an extinguisher, as this will spread the fire.

5.2 Special Hazards arising from the chemical

Vapors may form explosive mixtures with air. Vapors may travel considerable distance to a source of ignition and flash back. During fire, gases hazardous to health may be formed.

5.3 Special protective equipment and precautions for firefighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

5.4 Fire fighting equipment/instructions

In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk.

5.5 Specific methods

Use standard firefighting procedures and consider the hazards of other involved materials.

5.6 General fire hazards

Flammable liquid and vapor.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Avoid inhalation of vapors and spray mists. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see Section 8 of the SDS.

6.2 Methods and materials for containment and cleaning up

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Take precautionary measures against static discharge. Use only non-sparking tools. Keep combustibles (wood, paper, oil, etc) away from spilled material.

Large spills: Stop the flow of material, if this is without risk. Dike the spilled material where this is possible. Cover with plastic sheet to prevent spreading. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Prevent product from entering drains. Following product recovery, flush area with water.

Small spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see Section 13 of the SDS.

6.3 Environmental precautions

Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground. Inform appropriate managerial or supervisory personnel of all environmental releases.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Explosion-proof general and local exhaust ventilation. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Avoid prolonged exposure. Do not taste or swallow. When using, do not eat, drink or smoke. Should be handled in closed systems, if possible. Use only outdoors or in a well-ventilated area. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Observe good industrial hygiene practices.

7.2 Conditions for safe storage, including any incompatibilities

Store locked up. Keep away from heat, sparks and open flame. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Store in a cool, dry place out of direct sunlight. Store in original tightly closed container. Store in a well-ventilated place. Keep in an area equipped with sprinklers. Store away from incompatible materials (see Section 10 of the SDS).

SECTION 8: Exposure controls/personal protection

8.1 Occupational exposure limits

U.S. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value	Form
Diphenyl ether (CAS 101-84-8)	PEL	7 mg/m ³ 1 ppm	Vapor Vapor

U.S. ACGIH Threshold Limit Value

Components	Type	Value	Form
alpha-Pinene (CAS 80-56-8)	TWA	20 ppm	
Benzyl acetate (CAS 140-11-4)	TWA	10 ppm	
Butylated hydroxytoluene (CAS 128-37-0)	TWA	2 mg/m ³	Inhalable fraction and vapor
Citral (CAS 5392-40-5)	TWA	5 ppm	Inhalable fraction and vapor
Diethyl phthalate (CAS 84-66-2)	TWA	5 mg/m ³	
Diphenyl ether (CAS 101-84-8)	STEL TWA	2 ppm 1 ppm	Vapor Vapor

U.S. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value	Form
Butylated hydroxytoluene (CAS 128-37-0)	TWA	10 mg/m ³	
Diethyl phthalate (CAS 84-66-2)	TWA	5 mg/m ³	
Diphenyl ether (CAS 101-84-8)	TWA	7 mg/m ³ 1 ppm	Vapor Vapor

U.S. Workplace Environmental Exposure Level (WEEL) Guides

Components	Type	Value
Benzyl alcohol (CAS 100-51-6)	TWA	44.2 mg/m ³ 10 ppm

8.2 Biological limit values

No biological exposure limits noted for the ingredient(s).

8.3 Exposure guidelines

U.S. ACGIH Threshold Limit Values: Skin designation

Citral (CAS 5392-40-5) Can be absorbed through the skin.

8.4 Appropriate engineering controls

Explosion-proof general and local exhaust ventilation. Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.

8.5 Individual protection measures, such as personal protective equipment

Eye/face protection	Chemical respirator with organic vapor cartridge and full face piece.
Skin protection	
Hand protection	Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove supplier.
Other	Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.
Respiratory protection	Chemical respirator with organic vapor cartridge and full face piece.
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.

8.6 General hygiene considerations

When using do not smoke. Keep away from food and drink. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Contaminated work clothing should not be allowed out of the workplace.

SECTION 9: Physical and chemical properties

9.1 Physical and chemical properties

Appearance	Medium to Golden Yellow
Physical state	Liquid
Form	Liquid
Color	Not available
Odor	Characteristic
Odor threshold	Not available
pH	Not available
Melting/freezing point	-40.9 °F (-40.5 °C) estimated
Initial boiling point/range	508.79 °F (264.88 °C) estimated
Flash point	134.1 °F (56.7 °C)
Evaporation rate	Not available
Flammability (solid, gas)	Not applicable
Upper/lower flammability or explosive limits	
Flammability limit - lower (%)	Not available
Flammability limit - upper (%)	Not available
Explosive limit - lower (%)	Not available
Explosive limit - upper (%)	Not available
Vapor pressure	0.065 hPa estimated
Vapor density	Not available
Relative density	Not available
Solubility(ies)	
Solubility (water)	NO
Partition coefficient (n-octanol/water)	Not available
Auto-ignition temperature	855 °F (457.22 °C) estimated
Decomposition temperature	Not available
Viscosity	Not available
Other information	
Density	8.46 lbs/gal estimated
Explosive properties	Not explosive
Oxidizing properties	Not oxidizing
Refractive index	1.4775 - 1.4825
Specific gravity	0.914 - 0.954

SECTION 10: Stability and reactivity

10.1 Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
10.2 Chemical stability	Material is stable under normal conditions.
10.3 Possibility of hazardous reactions	Hazardous polymerization does not occur.

- 10.4 Conditions to avoid** Avoid heat, sparks, open flames and other ignition sources. Contact with incompatible materials.
- 10.5 Incompatible materials** Strong acids. Strong oxidizing agents.
- 10.6 Hazardous decomposition products** No hazardous decomposition products are known.

SECTION 11: Toxicological information
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11.1 Information on likely routes of exposure

Inhalation	Harmful in inhaled
Skin contact	Causes skin irritation. May cause an allergic skin reaction.
Eye contact	Causes serious eye irritation
Ingestion	Harmful if swallowed

11.2 Symptoms related to the physical, chemical and toxicological characteristics

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis. Rash

11.3 Information on toxicological effects

Acute toxicity	Harmful if inhaled. Harmful if swallowed. May cause an allergic skin reaction.
Skin corrosion/irritation	Causes skin irritation
Serious eye damage/irritation	Causes serious eye irritation

11.4 Respiratory or skin sensitization

ACGIH Sensitization	
alpha-Pinene (CAS 80-56-8)	Dermal sensitization
Citral (CAS 5392-40-5)	Dermal sensitization
Respiratory sensitization	Not a respiratory sensitizer
Skin sensitization	May cause an allergic skin reaction

11.5 Germ cell mutagenicity

No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

11.6 Carcinogenicity

Suspected of causing cancer.

IARC Monographs. Overall Evaluation of Carcinogenicity

Benzyl acetate (CAS 140-11-4)	3 Not classifiable as to carcinogenicity to humans
Butylated hydroxytoluene (CAS 128-37-0)	3 Not classifiable as to carcinogenicity to humans

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed

11.7 Reproductive toxicity

This product is not expected to cause reproductive or developmental effects.

11.8 Specific target organ toxicity single exposure

Not classified

11.9 Specific target organ toxicity repeated exposure

Not classified

11.10 Aspiration hazard

Not an aspiration hazard

11.11 Chronic effects

Prolonged inhalation may be harmful

SECTION 12: Ecological information

12.1 Ecotoxicity

Toxic to aquatic life with long lasting effects.

12.2 Persistence and degradability

No data available on the degradability of this product.

12.3 Bio accumulative potential

Partition coefficient n-octanol/water (log Kow)

alpha-Pinene	4.83
Benzyl acetate	1.96
Benzyl alcohol	1.1
Diethyl phthalate	2.47
Diphenyl ether	4.21
Linalool	2.97

12.4 Mobility in soil

No data available.

12.5 Other adverse effects

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

SECTION 13: Disposal considerations

13.1 Disposal instructions

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/ container in accordance with local/ regional/ national/ international regulations.

13.2 Local disposal regulations

Dispose in accordance with all applicable regulations.

13.3 Hazardous waste code

The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

13.4 Waste from residues/ unused products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and it's container must be disposed of in a safe manner (see Disposal instructions).

13.5 Contaminated packaging

Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

SECTION 14: Transport information

14.1 Transport information

DOT

UN Number	UN1169
UN proper shipping name	Extracts, aromatic, liquid
Transport hazard class(es)	
Class	3
Subsidiary risk	-
Label(s)	3
Packing group	III
Special precautions	Read safety instructions, SDS and emergency procedures before handling.
Special provisions	B1, IB3, T2, TP1
Packaging exceptions	150
Packaging non bulk	203
Packaging bulk	242

IATA

UN Number	UN1169
UN proper shipping name	Extracts, aromatic, liquid
Transport hazard class(es)	
Class	3
Subsidiary risk	-
Packing group	III
Environmental hazards	No.
ERG Code	3L
Special precautions	Read safety instructions, SDS and emergency procedures before handling.
Other Information	
Passenger and Cargo aircraft	Allowed
Cargo aircraft only	Allowed

IMDG

UN Number	UN1169
UN proper shipping name	Extracts, aromatic, liquid
Transport hazard class(es)	
Class	3
Subsidiary risk	-
Packing group	III
Environmental hazards	
Marine pollutant	No
EmS	F-E, S-D
Special precautions	Read safety instructions, SDS and emergency procedures before handling.
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not established

DOT



IATA; IMDG



SECTION 15: Regulatory information

15.1 US Federal Regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated

CERCLA Hazardous Substance List (40 CFR 302.4)

Diethyl phthalate (CAS 84-66-2) Listed

SARA 304 Emergency release notification

Not regulated

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed

15.2 Superfund Amendments and Reauthorization Act of 1986 (SARA)**Hazard categories**

Immediate Hazard - Yes

Delayed Hazard - Yes

Fire Hazard - Yes

Pressure Hazard - No

Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed

SARA 311/312 Hazardous Chemical

No

SARA 313 (TRI reporting)

Not regulated

15.3 Other federal regulations**Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List**

Not regulated

**Clean Air Act (CAA) Section 112(r) Accidental Release Prevention
(40 CFR 68.130)**

Not regulated

Safe Drinking Water Act (SDWA)

Not regulated

15.4 U.S. State Regulations

**U.S. California Controlled Substances. CA Department of Justice
(California Health and Safety Code Section 11100)**

Not listed

**U.S. California. Candidate Chemicals List. Safer Consumer Products
Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))**

Diethyl phthalate (CAS 84-66-2)

U.S. Massachusetts RTK - Substance List

alpha-Pinene (CAS 80-56-8)

Benzyl alcohol (CAS 100-51-6)

Butylated hydroxytoluene (CAS 128-37-0)

Diethyl phthalate (CAS 84-66-2)

Diphenyl ether (CAS 101-84-8)

U.S. New Jersey Worker and Community Right-to-Know Law

alpha-Pinene (CAS 80-56-8)

Benzyl acetate (CAS 140-11-4)

Butylated hydroxytoluene (CAS 128-37-0)

Diethyl phthalate (CAS 84-66-2)

Diphenyl ether (CAS 101-84-8)

U.S. Pennsylvania Worker and Community Right-to-Know Law

alpha-Pinene (CAS 80-56-8)

Benzyl alcohol (CAS 100-51-6)

Butylated hydroxytoluene (CAS 128-37-0)

Diethyl phthalate (CAS 84-66-2)

Diphenyl ether (CAS 101-84-8)

U.S. Rhode Island RTK

Diethyl phthalate (CAS 84-66-2)

U.S. California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

15.5 International Inventories

Country(s) or Region	Inventory Name	On inventory or exempt (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Unites States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s).

A "No" indicates that one or more components of the product are not listed on the inventory administered by the governing country(s).

SECTION 16: Other information

16.1 HMIS® ratings

Health: 2*

Flammability: 1

Physical hazard: 0

Personal protection: B

16.2 NFPA ratings

Health: 2

Flammability: 1

Instability: 0



Notes:

This safety data sheet is based on the properties of the material known at the time the data sheet was issued. The safety data sheet is intended to provide information for a health and safety assessment of the material and the circumstances, under which it is packaged, stored or applied in the workplace. For such a safety assessment holds no responsibility. This document is not intended for quality assurance purposes.