

SECTION 1: Identification of the Substance/Mixture and of the Company/Undertaking

- 1.1 Product Name:** Citronella Essential Oil
Product Code: 302-101X
- 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 Classification of the Substance or Mixture

Flammable Liquids, Category 4	H227: Combustible liquid.
Acute Oral Toxicity, Category 5	H303: May be harmful if swallowed.
Acute Dermal Toxicity, Category 5	H313: May be harmful in contact with skin.
Skin Corrosion/Irritation Category 2	H315: Causes skin irritation.
Skin Sensitization, Category 1	H317: May cause an allergic skin reaction.
Acute Aquatic Toxicity, Category 2	H401: Toxic to aquatic life.
Chronic Aquatic Toxicity, Category 2	H411: Toxic to aquatic life with long lasting effects.

2.2 GHS Label Elements, Including Precautionary Statements

Hazard Pictograms



Signal Word: Warning.

Hazard Statements

H227 Combustible liquid.
H303 May be harmful if swallowed.
H313 May be harmful in contact with skin.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H401 Toxic to aquatic life.
H411 Toxic to aquatic life with long lasting effects.

Precautionary Statements

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P280 Wear protective gloves/eye protection/face protection.
P321 Specific treatment (See supplemental first aid instructions on this label).
P370+P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.
P403+P235 Store in a well ventilated place. Keep cool.

2.3 Hazards Not Otherwise Classified (HNOC) and Other Information

No information available.

SECTION 3: Composition/Information on Ingredients

3.1 Substances

Chemical Name	EC Number	CAS Number	Weight %	Classification
Citronellal	203-376-6	106-23-0	30-50%	H227; H303; H316; H317; H319; H401; H411
Geraniol	203-377-1	106-24-1	20-30%	H303; H315; H317; H318; H402
Citronellol	203-375-0	106-22-9	10-15%	H303; H313; H316; H317; H401
Geranyl Acetate	203-341-5	105-87-3	1-5%	H316; H401; H411
Limonene	227-813-5	5989-27-5	1-5%	H226; H304; H316; H317; H400; H410
Linalool	201-134-4	78-70-6	1-5%	H227; H303; H316; H402
Farnesol	225-004-1	4602-84-0	1-5%	H316; H317; H319

SECTION 4: First Aid Measures

4.1 Description of First Aid Measures

General Advice:	If symptoms persist, call a physician.
Eye Contact:	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eyes wide open while rinsing. If symptoms persist, call a physician.
Skin Contact:	Immediate medical attention is not required. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If skin irritation persists, call a physician.
Ingestion:	Clean mouth with water and afterwards drink plenty of water. Never give anything by mouth to an unconscious person. Consult a physician. Do not induce vomiting.
Inhalation:	Immediate medical attention is not required. If symptoms persist, call a physician. Move to fresh air in case of accidental inhalation of vapors or decomposition products.
Self Protection of the First Aider:	Use personal protective equipment.

4.2 Most Important Symptoms and Effects, Both Acute and Delayed

Main Symptoms: No information available.

4.3 Indication of Any Immediate Medical Attention and Special Treatment Needed

Note to Physicians: Treat symptomatically. May cause sensitization in susceptible persons.

SECTION 5: Firefighting Measures

5.1 Extinguishing Media

Suitable: Use dry chemical, Carbon Dioxide (CO²), alcohol-resistant foam.

Unsuitable: Do not use solid water stream as it may scatter and spread fire.

5.2 Special Hazards Arising from the Substance or Mixture

No information available.

5.3 Protective Equipment and Precautions for Firefighters

As in any fire, wear a self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

SECTION 6: Accidental Release Measures

6.1 Personal Precautions, Protective Equipment and Emergency Procedures

Use personal protective equipment. Avoid contact with eyes and skin. Remove all sources of ignition. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Pay attention to flashback. Take precautionary measure against static discharges.

6.2 Environmental Precautions

Do not flush into surface water or sanitary sewer system. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains..

6.3 Methods and Material for Containment and Cleaning Up

Containment: Prevent further leakage or spillage if safe to do so.

Cleaning Up: Dam up. Use personal protective equipment. Cover liquid spill with sand, earth or other non-combustible absorbent material. Take up mechanically and collect in suitable container for disposal.

SECTION 7: Handling and Storage

7.1 Precautions for Safe Handling

Use personal protective equipment as required. Ensure adequate ventilation. Use only in area provided with appropriate exhaust ventilation. Do not breathe dust/fume/gas/mist/vapors/spray. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded. Keep away from heat, sparks and open flame. No smoking. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors).

7.2 Conditions for Safe Storage, Including Any Incompatibilities

Storage Conditions: Keep out of reach of children. Keep away from heat and sources of ignition. Keep container tightly closed in a cool, well-ventilated place. Keep in properly labeled container.

Incompatible Products: No information available.

SECTION 8: Exposure Controls/Personal Protection

8.1 Control Parameters

Exposure Guidelines:

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Chemical Name	European Union	The United Kingdom	France	Spain	Germany
Limonene 5989-27-5					MAK: 20 ppm MAK: 110 mg/m ³ Ceiling/Peak: 40 ppm Ceiling/Peak: 220 mg/m ³ TWA: 20 ppm TWA: 110 mg/m ³

Chemical Name	Italy	Portugal	The Netherlands	Finland	Denmark
Limonene 5989-27-5				TWA: 25 ppm TWA: 140 mg/m ³ STEL: 50 ppm STEL: 280 mg/m ³	

Chemical Name	Austria	Sweden	Switzerland	Poland	Norway
Limonene 5989-27-5			STEL: 40 ppm STEL: 220 mg/m ³ MAK: 20 ppm MAK: 110 mg/m ³		TWA: 25 ppm TWA: 140 mg/m ³ STEL: 37.5 ppm STEL: 175 mg/m ³

Derived No Effect Level (DNEL): No information available.

Predicted No Effect Concentration (PNEC): No information available.

8.2 Exposure Controls

Engineering Controls: Ensure adequate ventilation, especially in confined areas.

8.3 Personal Protective Equipment

Eye/Face Protection: Tightly fitting safety goggles

Skin and Body Protection: Protective gloves. Antistatic boots. Wear fire/flame resistant/retardant clothing. Chemical resistant apron. Long sleeved clothing.

Respiratory Protection: When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

General Hygiene Considerations: When using, do not eat, drink or smoke. Provide regular cleaning of equipment, work area and clothing.

SECTION 9: Physical and Chemical Properties

9.1 Information on Basic Physical and Chemical Properties

Physical State @ 20°C:	Liquid
Appearance:	Clear
Odor:	Lemon-like
Odor Threshold:	No information available
Color:	Light yellow to brown
pH:	No information available
Melting Point/Range:	No information available
Freezing Point:	No information available
Initial Boiling Point:	No information available
Boiling Point/Range:	No information available
Flash Point:	175°F / 79°C
Evaporation Rate:	No information available
Flammability Limits in Air:	No information available
Explosive Properties:	No information available
Oxidizing Properties:	No information available
Vapor Pressure @ 20°C:	No information available
Vapor Density:	No information available
Specific Gravity @ 25°C:	0.850 - 0.920
Specific Gravity @ 20°C:	0.853 - 0.923
Refractive Index:	1.445 - 1.500
Water Solubility:	Insoluble in water
Solubility:	No information available
Partition Coefficient:	No information available
Autoignition Temperature:	No information available
Decomposition Temperature:	No information available
Viscosity, Dynamic:	No information available
Molecular Weight:	No information available
VOC Content (%):	5

SECTION 10: Stability and Reactivity

10.1 Reactivity

No information available.

10.2 Chemical Stability

Stable under normal conditions.

10.3 Possibility of Hazardous Reactions

No information available.

10.4 Conditions to Avoid

Heat, flames and sparks.

10.5 Incompatible Materials

No materials to be especially mentioned.

10.6 Hazardous Decomposition Products

None under normal use conditions.

SECTION 11: Toxicological Information
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11.1 Information on Likely Routes of Exposure

Inhalation:	There is no data available for this product.
Eye Contact:	There is no data available for this product.
Skin Contact:	There is no data available for this product.
Ingestion:	There is no data available for this product.

11.2 Information on Toxicological Effects

Symptoms:	No information available.
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11.3 Delayed and Immediate Effects as Well as Chronic Effects from Short and Long-term Exposure

Sensitization:	No information available.
Mutagenic Effects:	No information available.
Carcinogenicity:	No information available.
Reproductive Toxicity:	No information available.
Specific Target Organ Systemic Toxicity (Single Exposure):	No information available.
Specific Target Organ Systemic Toxicity (Repeated Exposure):	No information available.
Aspiration Hazard	No information available.

11.4 Numerical Measures of Toxicity - Product Information

Acute Toxicity:	12.8% of the mixture consists of ingredient(s) of unknown toxicity.
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The following values are calculated bases on Chapter 3.1 of the GHS document.

Oral: 3,091.00 mg/kg

Dermal: 3,190.00 mg/kg

SECTION 12: Ecological Information

12.1 Ecotoxicity

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Daphnia and Other Aquatic Invertebrates
Limonene		0.619-0.796: 96 h Pimephales promelas mg/L LC50 flow-through 36: 96 h Oncorhynchus mykiss mg/L LC50	
Linalool	88.3: 96 h Desmodesmus subspicatus mg/L EC50	22-46: 96 h Leuciscus idus mg/L LC50 static	20: 48 h Daphnia magna mg/L EC50

12.2 Persistence and Degradability

No information available.

12.3 Bioaccumulative Potential

No information available.

Chemical Name	log Pow
Linalool	3.1

12.4 Mobility in Soil

No information available.

12.5 Results of PBT and vPvB Assessment

No information available.

12.6 Other Adverse Effects

No information available.

SECTION 13: Disposal Considerations

13.1 Waste Treatment Methods

Waste Disposal Methods:	Dispose of in accordance with local regulations.
Contaminated Packaging:	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/ID Number:	3082
Proper Shipping Name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (LIMONENE, LINALOOL)
Hazard Class:	9
Packing Group:	III
ERG Code:	171

IMDG/IMO

Proper Shipping Name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (LIMONENE, LINALOOL)
Hazard Class:	9
UN/ID Number:	3082
Packing Group:	III
Marine Pollutant:	This product contains a chemical which is listed as a marine pollutant according to IMDG/IMO.

ICAO/IATA

Not regulated.

SECTION 15: Regulatory Information

15.1 International Inventories

TSCA	Complies
DSL/NDSL	Complies
EINECS/ELINCS	Complies
ENCS	Complies
IECSC	Complies
KECL	Complies
PICCS	Complies
AICS	Complies

Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substance

IECSC - China Inventory of Existing chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

SECTION 16: Other Information

16.1 Full Text of H-Statements Referred to Under Sections 2 and 3

H226: Flammable liquid and vapor.	H227: Combustible liquid.
H303: May be harmful if swallowed.	H304: May be fatal if swallowed and enters airways.
H313: May be harmful in contact with skin.	H316: Causes mild skin irritation.
H315: Causes skin irritation.	H318: Causes serious eye damage.
H317: May cause an allergic skin reaction.	H400: Very toxic to aquatic life.
H319: Causes serious eye irritation.	H402: Harmful to aquatic life.
H401: Toxic to aquatic life.	H411: Toxic to aquatic life with long lasting effects.
H410: Very toxic to aquatic life with long lasting effects.	

WARNING/DISCLAIMER:

This ingredient(s) has not been tested, nor has it been deemed safe, for inhalation or use in electronic smoking devices, electronic nicotine delivery systems, electronic cigarettes or other similar devices (collectively "E-Cigarettes"). In supplying this ingredient, Majestic Mountain Sage instructs, and by receiving the ingredient recipient confirms, that this ingredient will not be used in connection with the manufacture and distribution of E-Cigarettes or any component thereof.

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.