

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

- 1.1 Product Name:** Lemongrass Essential Oil
Product Code: 302-504X
- 1.2 Intended Use:** Compound used in customer substance/mixture/product.
- 1.3 Supplier:** Majestic Mountain Sage Inc
2490 S 1350 W
Nibley, Utah 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 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.
Eye Damage/Irritation, Category 2	H319: Causes serious eye irritation.
Acute Aquatic Toxicity, Category 2	H401: Toxic to aquatic life.
Chronic Aquatic Toxicity, Category 2	H411: Toxic to aquatic life with long lasting effects.

Classification According to EU Directives 67/548/EEC or 1999/45/EC

For the full text of the R-phrases mentioned in this Section, see Section 16.

Symbol(s): Xi - Irritant
N - Dangerous for the environment

R-Code(s): Xi;R36/38 - R43 - N;R51/53

2.2 Label Elements, Including Precautionary Statements

Hazard Pictograms



Signal Word: Warning.

Hazard Statements

H227	Combustible liquid.
H313	May be harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
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
Citral	226-394-6	5392-40-5	50-90%	H227; H313; H315; H317; H401 XI; R38, XI; R43;
Geraniol	203-377-1	106-24-1	5-10%	H303; H315; H317; H318; H402 XI; R38, XI; R41, XI; R43
Limonene	227-813-5	5959-27-5	1-5%	H226; H304; H316; H317; H400; H410 R10, XI; R38, XI; R43, N; R50/53;

For the full text of the R-Phrases and H-Statements, see Section 16.

SECTION 4: First Aid Measures

4.1 Description of First Aid Measures

General Advice:	If symptoms persists, 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. Do not induce vomiting. Never give anything by mouth to an unconscious person. Consult a physician.
Inhalation:	Immediate medical attention is not required. Move to fresh air in case of accidental inhalation of vapors or decomposition products. If symptoms persist, call a physician.

**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.

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 measures against static discharges.

6.2 Environmental Precautions

Prevent entry into waterways, sewers, basements or confined areas. 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: Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). 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 or organic vapors).

7.2 Conditions for Safe Storage, Including Any Incompatibilities

Keep tightly closed in a dry, cool, and well-ventilated place. Keep away from heat. Keep in properly labeled containers. Keep out of reach of children.

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 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. Wash contaminated clothing before reuse. 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:	Lemongrass
Odor Threshold:	No information available
Color:	Pale yellow to brownish-yellow
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:	163°F / 73°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:	0.869 - 0.894
Specific Gravity @ 20°C:	0.872 - 0.897
Refractive Index:	1.483 - 1.489
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 (%):	4

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 Toxicological Effects and 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.
Acute Toxicity:	9% of the mixture consists of ingredient(s) of unknown toxicity.

The following values are calculated bases on Chapter 3.1 of the GHS document.

Oral:	5,259.00 mg/kg
Dermal:	2,825.00 mg/kg

Skin Corrosion/Irritation:	No information available.
Eye Damage/Irritation:	No information available.
Sensitization:	No information available.
Germ Cell Mutagenicity:	No information available.
Carcinogenicity:	No information available.
Specific Target Organ Systemic Toxicity (Single Exposure):	No information available.
Specific Target Organ Systemic Toxicity (Repeated Exposure):	No information available.
Target Organ Effects:	No information available.
Aspiration Hazard:	No information available.

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
Citral	16: 72 h Desmodesmus subspicatus mg/L EC50 19: 96 h Desmodesmus Subspicatus mg/L EC50	4.6-10: 96 h Leuciscus idus mg/L LC50 Static	7: 48 h Daphnia magna mg/L EC50
Limonene		0.619-0.796: 96 h Pimephales promelas mg/L LC50 flow-through 35: 96 h Oncorhynchus mykiss mg/L LC50	

12.2 Persistence and Degradability

No information available.

12.3 Bioaccumulative Potential

No information available.

Chemical Name	log Pow
Citral	2.76

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

<u>DOT/ADR</u>	Not regulated (If shipped in NON BULK packaging by ground transport)
UN/ID No:	3082
Proper Shipping Name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID, N.O.S. (LIMONENE)
Hazard Class:	9
Packing Group:	III
ERG Code:	171

<u>IMDG/IMO</u>	
Proper Shipping Name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID, N.O.S. (LIMONENE)
Hazard Class:	9
UN/ID No:	3082
Packing Group:	III
Marine Pollutant:	This product contains a chemical which is listed as a marine pollutant according to IMDG/IMO.

<u>ICAO/IATA</u>	
UN/ID No:	3082
Proper Shipping Name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID, N.O.S. (LIMONENE)
Hazard Class:	9
Packing Group:	III
Marine Pollutant:	P

SECTION 15: Regulatory Information

15.1 International Regulations

WGK Classification

Chemical Name_	Germany - Water Classification (VwVwS) - Annex 2 - Water Hazard Classes
Citral 5392-40-5	Hazard Class 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.

H304: May be fatal if swallowed and enters airways.

H317: May cause an allergic skin reaction.

H319: Causes serious eye irritation.

H401: Toxic to aquatic life.

H410: Very toxic to aquatic life with long lasting effects.

H227: Combustible liquid.

H313: May be harmful in contact with skin.

H315: Causes skin irritation.

H318: Causes serious eye damage.

H400: Very toxic to aquatic life.

H402: Harmful to aquatic life.

H411: Toxic to aquatic life with long lasting effects.

16.2 Full Text of Risk Combination Phrases

R10: Flammable.

R38: Irritating to skin.

R43: May cause sensitization by skin contact.

R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R36/38: Irritating to eyes and skin

R41: Risk of serious damage to eyes.

R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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.