



# Citronella Essential Oil

Safety Data Sheet

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

**1.1 Product name:** Citronella Essential Oil

**1.2 Product code:** 302-101X

**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](http://www.TheSage.com)

**1.4 Emergency telephone number**

No additional information available

## SECTION 2: Hazards identification

**2.1 Classification of the substance or mixture**

Acute Oral Toxicity	Category 5
Acute Dermal Toxicity	Category 5
Skin Corrosion / Irritation	Category 2
Serious Eye Damage/Irritation	Category 2A
Skin Sensitization	Category 1
Acute Aquatic Toxicity	Category 2
Chronic Aquatic Toxicity	Category 2
Flammable Liquids	Category 4

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; R41 - Xi; R38 - R43 - N; R51-53

## 2.2 Label Elements



**Signal Word**

Warning

## 2.3 Hazard Statements

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
H319	Causes serious eye irritation
H411	Toxic to aquatic life with long lasting effects
H227	Combustible liquid

## 2.4 Precautionary Statements

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

## 2.5 Other information

No data available

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

Chemical Name	EC-No	CAS-No	Weight %	Classification according to Directive 67/548/EEC or 1999/45/EC	Classification according to Regulation (EC) No. 1272/2008 [CLP]	REACH Registration Number
Citronellal	203-376-6	106-23-0	30-50%	Xi; R38, Xi; R43, N; R51/53	Aquatic Acute 2 (H401) Skin Sens. 1 (H317) Eye Irrit. 1 (H319) Skin Irrit. 2 (H316) Aquatic Chronic 2 (H411) Acute Tox. 5 (H303) Flam. Liq. 4 (H227)	No data available
Geraniol	203-377-1	106-24-1	20-30%	Xi; R38, Xi; R41, Xi; R43	Aquatic Acute 3 (H402) Skin Sens. 1 (H317) Eye Dam. 1 (H318) Skin Irrit. 2 (H315) Acute Tox. 5 (H303)	No data available
Citronellol	203-375-0	106-22-9	10-15%	Xi; R38, Xi; R43, N; R51/53	Aquatic Acute 2 (H401) Skin Sens. 1 (H317) Skin Irrit. 2 (H316) Acute Tox 5 (H303) Acute Tox 5 (H313)	No data available
Geranyl Acetate	203-341-5	105-87-3	1-5%	N; R51/53	Aquatic Acute 2 (H401) Skin Irrit. 3 (H316) Aquatic Chronic 2 (H411)	No data available
Limonene	227-813-5	5989-27-5	1-5%	R10, Xi; R38, Xi; R43, N; R50/53	Aquatic Acute 1 (H400) Skin Sens. 1 (H317) Skin Irrit. 2 (H316) Asp. Tox. 1 (H304) Aquatic Chronic 1 (H410) Flam. Liq. 3 (H226)	No data available
Linalool	201-134-4	78-70-6	1-5%	Xi; R38	Aquatic Acute 3 (H402) Skin Irrit. 2 (H316) Acute Tox. 5 (H303) Flam. Liq. 4 (H227)	No data available
Farnesol	225-004-1	4602-84-0	1-5%	Xi; R36/38, Xi; R43	Skin Sens. 1 (H317) Eye Irrit. 1 (H319) Skin Irrit. (H316)	No data available

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

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

General Advice	If symptoms persist, call a physician.
Eye Contact	Rinse immediately and thoroughly with plenty of water, also under the eyelids, for at least 15 minutes. If symptoms persist, call a physician. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing.
Skin Contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Wash contaminated clothing before reuse. If skin irritation persists, call a physician. Immediate medical attention is not required.
Ingestion	Do NOT induce vomiting. Rinse mouth with water and drink plenty of water afterwards. Immediate medical attention is not required. Never give anything by mouth to an unconscious person. Call a physician.
Inhalation	If symptoms persist, call a physician. Immediate medical attention is not required. 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

No data available

### 4.3 Indication of any immediate medical attention and special treatment needed

Note to physicians May cause sensitization in susceptible persons. Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing Media

Suitable Extinguishing Media	Use Dry chemical, Carbon dioxide CO <sup>2</sup> , Water spray, Alcohol-resistant foam.
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Extinguishing media which shall not be used for safety reason No information available

## 5.2 Special hazards arising from the substance or mixture

Special Hazard None

## 5.3 Advice for firefighters

Special protective equipment for fire-fighters Wear self-contained breathing apparatus for fire fighting if necessary.

## 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.

See Section 12 for additional Ecological Information

### 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

Soap up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

## 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 causes ignition of organic vapors).

## 7.2 Conditions for safe storage, including any incompatibilities

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

## 7.3 Specific end use(s)

Exposure scenario N/A  
Other Guidelines N/A

## SECTION 8: Exposure controls/personal protection

### 8.1 Control Parameters

Exposure Limit 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 <sup>3</sup> Ceiling / Peak: 40 ppm Ceiling / Peak: 220 mg/m <sup>3</sup> TWA: 20 ppm TWA: 110 mg/m <sup>3</sup>

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

Chemical Name	Austria	Sweden - Occupational Exposure limits - TLVs (LLVs)	Switzerland	Poland	Norway
Limonene 5989-27-5			STEL: 40 ppm STEL: 220 mg/m <sup>3</sup> MAK: 20 ppm MAK: 110 mg/m <sup>3</sup>		TWA: 25 ppm TWA: 140 mg/m <sup>3</sup> STEL: 37.5 ppm STEL: 175 mg/m <sup>3</sup>

Derived No Effect Level (DNEL)  
Predicted No Effect  
Concentration (PNEC)

No information available  
No information available

### 8.2 Exposure controls

Engineering Controls Ensure adequate ventilation, especially in confined areas.

### 8.3 Personal Protective Equipment

Eye Protection	Tightly fitting safety goggles
Hand Protection	Protective gloves
Skin/Body Protection	Long sleeved clothing. Impervious gloves. Chemical resistant apron. Antistatic boots.
Respiratory Protection	When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
General Hygiene	When using, do not eat, drink or smoke. Wash contaminated clothing before reuse. Provide regular cleaning of equipment, work area and clothing.
Considerations	
Environmental Exposure Controls	Do not allow material to contaminate ground water system.

<b>SECTION 9: Physical and chemical properties</b>
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#### 9.1 Information on basic physical and chemical properties

Physical State:	liquid
Appearance:	clear
Odor:	lemon-like
Color:	light yellow to brown

Property	Values	Method
pH:	No information available	
Melting/freezing point	No information available	
Boiling point/boiling range:		FCC Method
Flash Point:	79°C / 175°F	Closed Cup
Evaporation Rate:		FCC Method
Flammability (solid, gas):	No information available	
Flammability Limits in Air:	No information available	
Upper flammability limit:		
Lower flammability limit:		
Vapor pressure mm Hg 20°C:	No information available	
Vapor density:	No information available	
Relative density:	No information available	
Specific gravity @ 25C:	0.850 - 0.920	FCC Method
Specific gravity @ 20C:	0.853 - 0.923	FCC Method
Refractive Index:	1.445 - 1.500	FCC Method
Water solubility:	No information available	
Solubility in other solvents:	No information available	
Partition coefficient:	No information available	
n-octanol/water		
Autoignition temperature:	No information available	
Decomposition temperature:	No information available	

Viscosity, dynamic: No information available  
 Explosive properties: No information available  
 Oxidizing properties: No information available

**Other Information**

VOC Content (%): 5  
 Molecular weight: No information available

**SECTION 10: Stability and reactivity**

**10.1 Reactivity** None  
**10.2 Chemical stability** Stable under normal conditions  
**10.3 Possibility of hazardous reactions** None  
**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**

**11.1 Information on toxicological effects**

**Acute toxicity**

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: 12.8% of the mixture consists of ingredient(s) of unknown toxicity.

The following values are calculated based on chapter 3.1 of the GHS document (Rev. 1, 2005).

Oral: 3,091.00 mg/kg  
 Dermal: 3,190.00 mg/kg

Chemical Name	Oral LD50	Dermal LD50
Citronellal	2420 mg/kg (Rat)	2500 mg/kg (Rabbit)
Geraniol	3600 mg/kg (Rat)	5000 mg/kg (Rabbit)
Citronellol	3450 mg/kg (Rat)	2650 mg/kg (Rabbit)
Geranyl Acetate	6330 mg/kg (Rat)	



Limonene	4400 mg/kg (Rat)	2000 mg/kg (Rabbit)
Linalool	2790 mg/kg (Rat)	5610 mg/kg (Rat)
Farnesol	6 g/kg (Rat)	

<b>Skin corrosion / irritation</b>	No information available.
<b>Eye damage / irritation</b>	No information available.
<b>Sensitization</b>	No information available.
<b>Germ Cell Mutagenicity</b>	No information available.
<b>Carcinogenicity</b>	No information available.
<b>Specific target organ systemic toxicity (single exposure)</b>	No information available.
<b>Specific target organ systemic toxicity (repeated exposure)</b>	No information available.
<b>Target Organ Effects</b>	No information available.
<b>Aspiration hazard</b>	No information available.

## SECTION 12: Ecological information

### 12.1 Toxicity

#### Ecotoxicity effects

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 & other aquatic invertebrates
Limonene		0.619-0.796: 96 h Pimephales promelas mg/L LC50 flow-through 35: 96 h Oncorhynchus mykiss mg/L LC50	
Linalool	88.3: 96 h Desmodium 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.

<b>SECTION 13: Disposal considerations</b>
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### 13.1 Waste Treatment Methods

Waste from residues/ unused products	Dispose of in accordance with local regulations
Contaminated packaging	Empty containers should be take to an approved waste handling site for recycling or disposal.
Other Information:	According to the European Waste Catalogue, Waste Codes are not product specific, but application specific Waste Codes should be assigned by the user based on the application for which the product was used.

<b>SECTION 14: Transport information</b>
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### 14.1 Transport Information

**DOT**

No information available

**IMDG/IMO**

Proper Shipping name:	Environmentally Hazardous Substance, Liquid, N.O.S. (Limonene, Linalool)
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.

**ICAO/IATA**

Not regulated

## SECTION 15: Regulatory information

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

#### WGK Classification

Chemical Name	Germany - Water Classification (VwVwS) - Annex 2 - Water Hazard Classes
Citronellal 106-23-0	Hazard Class 1
Citronellol 106-22-9	Hazard Class 1
Linalool 78-70-6	Hazard Class 1

#### International Inventories

All of the components in the product are on the following Inventory lists: United States of America (TSCA), Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Australia (AICS), Korea (ECL), China (IECSC), Japan (ENCS), Philippines (PICCS).

#### International Inventories

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

#### Legend:

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

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

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

PICCS: Philippines Inventory of Chemicals and Chemical Substances

ENCS: Japan Existing and New Chemical Substances

IECSC: China Inventory of Existing Chemical Substances

AICS: Australian Inventory of Chemical Substances

KECL: Korean Existing and Evaluated Chemical Substances

### 15.2 Chemical Safety Assessment

No information available

<b>SECTION 16: Other information</b>
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**Risk Combination Phrases**

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

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

R36/38 - Irritating to eyes and skin.

**Full text of H-Statements referred to under sections 2 and 3**

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

**Date:** July 25, 2016

The information contained within this Material Safety Data Sheet is based on our present knowledge. The data here does not guarantee any specific product features or suitability of this product for user's application. User should satisfy themselves that information is complete. No warranty is expressed or implied with respect to completeness or continuing accuracy of the information given here.