

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

- 1.1 Product Name:** Plumeria Fragrance Oil
Product Code: 303-146X
- 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

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

Classification OSHA (Provision 1910.1200 of title 29)

Skin Corrosion/Irritation, Category 2	H315: Causes skin irritation.
Skin Sensitization, Category 1A	H317: May cause an allergic skin reaction.
Eye Damage/Irritation, Category 2A	H319: Causes serious eye irritation.
Reproductive Toxicity, Category 1B	H360: May damage fertility or the unborn child.

2.2 Label Elements

Hazard Pictograms



Signal Word: Danger.

Hazard Statements

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H360	May damage fertility or the unborn child.

Precautionary Statements

Prevention:

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P261	Avoid breathing dust/fume/gas/mist/vapors/spray.
P264	Wash face, hands and any exposed skin thoroughly after handling.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P281	Use personal protective equipment as required.

Response:

P321	Specific treatment (see supplemental first aid instructions on this label).
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Storage:

P405	Store locked up.
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Disposal:

P501	Dispose of contents/container to an approved waste disposal plant.
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2.3 Other Hazards

H303: May be harmful if swallowed.
H400: Very toxic to aquatic life.
H411: Toxic to aquatic life with long lasting effects.

SECTION 3: Composition/Information on Ingredients

3.1 Mixtures

CAS # Ingredient	Weight %	Classification	FEMA Numbers
120-51-4	>=25 - 100%	H302; H313; H400; H411	2138
<i>Benzyl Benzoate</i>			
140-11-4	5 - <10%	H303; H316; H401; H412	2135
<i>Benzyl acetate</i>			
101-86-0	5 - <10%	H303; H316; H317; H400; H411	2569
<i>2-Benzylideneoctanal</i>			
78-69-3	5 - <10%	H227; H315; H317; H319; H401	3060
<i>3,7-Dimethyloctan-3-ol</i>			
118-58-1	5 - <10%	H303; H317; H320; H401; H411	2151
<i>Benzyl salicylate</i>			
122-40-7	1 - <5%	H303; H316; H317; H401; H411	2061
<i>2-Benzylideneheptanal</i>			
105-95-3	1 - <5%	H401	3543
<i>1,4-Dioxacycloheptadecane-5,17-dione</i>			
2050-08-0	1 - <5%	H302; H400; H410	None
<i>Amyl salicylate</i>			
5413-60-5	1 - <5%	H303; H316; H402; H412	-
<i>4,7-Methano-1H-inden-6-ol,3a,4,5,6,7,7a-hexahydro-, acetate</i>			
88-41-5	1 - <5%	H227; H303; H316; H401; H411	None
<i>2-tert-Butylcyclohexyl acetate</i>			
710-04-3	1 - <5%	H316	3294
<i>2H-Pyran-2-one, 6-hexyltetrahydro-</i>			

CAS # Ingredient	Weight %	Classification	FEMA Numbers
106-22-9	1 - <5%	H303; H313; H315; H319; H401	2309
<i>Citronellol</i>			
17511-60-3	1 - <5%	H316; H401; H411	-
<i>4,7-Methano-1H-inden-6-ol,3a,4,5,6,7,7a-hexahydro-, propanoate</i>			
80-54-6	1 - <5%	H227; H302; H315; H317; H360; H401; H412	None
<i>Benzenepropanal, 4-(1,1-dimethylethyl)-.alpha.-methyl-</i>			
10339-55-6	1 - <5%	H227; H315; H319; H402	None
<i>1,6-Nonadien-3-ol, 3,7-dimethyl-</i>			
97-53-0	1 - <5%	H303; H316; H317; H319; H401	2467
<i>Eugenol</i>			
87-20-7	1 - <5%	H316; H401; H411	2084
<i>3-Methylbutyl salicylate</i>			
18479-58-8	1 - <5%	H227; H303; H316; H319; H402	None
<i>Dihydromyrcenol</i>			
111879-80-2	0.1 - 1%	H316; H400; H410	None
<i>Oxacyclohexadec-12-en-2-one, (12E)-</i>			
54464-57-2	0.1 - 1%	H315; H37; H401; H410	None
<i>1-(2,3,8,8-Tetramethyl-1,2,3,4,5,6,7,8-octahydronaphthalen-2-yl)ethanone</i>			
1205-17-0	0.1 - 1%	H303; H317; H401; H411	4599
<i>3-(1,3-Benzodioxol-5-yl)-2-methylpropanal</i>			
106-24-1	0.1 - 1%	H303; H315; H317; H318; H402	2507
<i>Geraniol</i>			
106-25-2	0.1 - 1%	H303; H315; H317; H318; H402	2770
<i>Nerol</i>			

CAS # Ingredient	Weight %	Classification	FEMA Numbers
57378-68-4	0.1 - 1%	H302; H315; H317; H400; H410	3622
<i>1-(2,6,6-Trimethylcyclohex-3-en-1-yl)but-2-en-1-one</i>			
93-15-2	< 0.1%	H302; H341; H351; H401	None
<i>Methyl eugenol</i>			

See Section 16 for full text of H-Statements.

SECTION 4: First Aid Measures

4.1 Description of First Aid Measures

General Advice:	If symptoms persist, call a physician. Do not breathe dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or on clothing.
Inhalation:	Move to fresh air. If breathing is irregular or stopped, administer artificial respiration. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Consult 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:	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Consult a physician if necessary.
Ingestion:	Do NOT induce vomiting. Drink plenty of water. If symptoms persist, call a physician. Rinse mouth.

4.2 Most Important Symptoms/Effects, Acute and Delayed

Symptoms:	No data available.
Risks:	Refer to Section 2.2 "Hazard Statements".

4.3 Indication of Any Immediate Medical Attention and Special Treatment Needed

Treatment: Refer to Section 2.2 "Response".

Notes to Physician: May cause sensitization of susceptible persons.

SECTION 5: Firefighting Measures

5.1 Extinguishing Media

Suitable: Water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable: Do not use a solid water stream as it may scatted and spread the fire.

5.2 Special Hazards Arising from the Substance or Mixture

Thermal decomposition can leaf to release of irritating gases and vapors. In the event of fire and/or explosion do not breathe fumes. May cause sensitization by inhalation and skin contact.

Explosion Data

Sensitivity to Mechanical Impact: None.

Sensitivity to Static Discharge: None.

5.3 Advice for Firefighters

As in any fire, wear 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

Avoid contact with skin, eyes and clothing. Use personal protective equipment.

6.2 Environmental Precautions

Prevent entry into waterways, sewers, basements or confined areas. Do not flush into surface water or sanitary sewer system.

6.3 Methods and Materials for Containment and Cleaning Up

Prevent further leakage or spillage if safe to do so. Cover liquid spill with sand, earth or other noncombustible absorbent material. Use personal protective equipment. Dam up. Take up mechanically and collect in suitable container for disposal. Clean contaminated surface thoroughly. Soak up with inert absorbent material.

SECTION 7: Handling and Storage

7.1 Precautions for Safe Handling

Avoid contact with skin, eyes and clothing. Remove and wash contaminated clothing before re-use. Do not eat, drink or smoke when using this product. Wear personal protective equipment/face protection. Do not breathe dust/fume/gas/mist/vapors/spray.

7.2 Conditions for Safe Storage, Including Any Incompatibilities

Storage Conditions: Keep container tightly closed in a dry, cool, and well-ventilated place. Keep out of reach of children.

Incompatible Products: None known based on information supplied.

7.3 Specific End Uses

No information available.

SECTION 8: Exposure Controls/Personal Protection

8.1 Control Parameters

Exposure Limits:

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Benzyl acetate 140-11-4	TWA: 10 ppm	-	-
Isoamyl acetate 123-92-2	STEL: 100 ppm TWA: 50 ppm	TWA: 100 ppm TWA: 525 mg/m ³ (vacated) TWA: 100 ppm (vacated) TWA: 525 mg/m ³	IDLH: 1000 ppm TWA: 100 ppm TWA: 525 mg/m ³
n-Amyl acetate 628-63-7	STEL: 100 ppm TWA: 50 ppm	TWA: 100 ppm TWA: 525 mg/m ³ (vacated) TWA: 100 ppm (vacated) TWA: 525 mg/m ³	IDLH: 1000 ppm TWA: 100 ppm TWA: 525 mg/m ³

Engineering Measures: Showers, eyewash stations, ventilation systems.

8.2 Exposure Controls - Personal Protective Equipment

Eye/Face Protection: Tightly fitting safety goggles.

Respiratory Protection: If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

Skin/Body Protection: Chemical resistant apron.

Hygiene Measures: When using do not eat, drink or smoke. Remove and wash contaminated clothing before re-use.

SECTION 9: Physical and Chemical Properties

9.1 Information on Basic Physical and Chemical Properties

Appearance:	Liquid
Odor:	Conforms to Standard
Color:	Clear yellow
Viscosity:	Liquid
Freezing Point:	Not determined
Boiling Point:	410°F / 210 °C
Melting Point:	Not determined
Flashpoint (CCCFP):	210°F / 99°C
Vapor Pressure @ 20°C (mmHg):	0.116
Auto Flammability:	Not determined
Explosive Properties:	No information available
Oxidizing Properties:	No information available
Vapor Pressure (mmHg@20°C):	No information available
%VOC:	No information available
Specific Gravity:	1.0220
Density @ 25°C:	No information available
Refractive Index @ 20°C:	No information available
Soluble In:	Oil

SECTION 10: Stability and Reactivity

10.1 Reactivity	Exothermic reaction.
10.2 Chemical Stability	Stable under recommended storage conditions.
10.3 Possibility of Hazardous Reactions	None under normal processing.
10.4 Conditions to Avoid	Extremes of temperature and direct sunlight.
10.5 Incompatible Materials	None known based on information supplied.
10.6 Hazardous Decomposition Products	None known based on information supplied.

SECTION 11: Toxicological Information

11.1 Information on Likely Routes of Exposure

Product Information:	Product does not present an acute toxicity hazard based on known information.
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.

Component Information:

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Benzyl benzoate 120-51-4	1500 mg/kg	4000 mg/kg	-
Benzyl acetate 140-11-4	2490 mg/kg	5 g/kg	-
2- Benzylideneoctanal 101-86-0	3100 mg/kg	3000 mg/kg	-

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
3,7-Dimethyloctan-3-ol 78-69-3	5 g/kg (Rat) 5440.5 mg/kg (Rat) 4590 mg/kg (Rat) 3000 mg/kg (Rat) 10000 mg/kg (Rat) 2979 mg/kg (Rat) 5000 mg/kg (Rat) 8300 mg/kg (Rat) 2980 mg/kg (Rat) 4720 mg/kg (Rat)	5 g/kg (Rabbit) 2650 mg/kg (Rabbit) 2530 mg/kg (Rabbit) 2960 mg/kg (Rabbit) 11300 mg/kg (Rabbit) 2250 mg/kg (Rabbit) 1600 mg/kg (Rat) 631 mg/kg (Rabbit) 2600 mg/kg (Rabbit)	0.237 mg/L (Rat) 4 h
Benzyl salicylate 118-58-1	2200 mg/kg	14150 mg/kg	-
2-Benzylideneheptanal 122-40-7	3730 mg/kg	-	-
Amyl salicylate 2050-08-0	2500 mg/kg	-	-
4,7-Methano-1H-inden-6-ol, 3a,4,5,6,7,7ahexahydro-, acetate 5413-60-5	3000 mg/kg	-	-
2-tert-Butylcyclohexyl acetate 88-41-5	4600 mg/kg	5 g/kg	-
Citronellol 106-22-9	3450 mg/kg	2650 mg/kg	-
4,7-Methano-1H-inden-6-ol, 3a,4,5,6,7,7ahexahydro-, propanoate 17511-60-3	5 g/kg	5 g/kg	-

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Benzenepropanal, 4-(1,1-dimethylethyl)-.alpha.-methyl-80-54-6	1390 mg/kg	2000 mg/kg	-
Eugenol 97-53-0	2300 mg/kg	-	-
3-Methylbutyl salicylate 87-20-7	3300 mg/kg (Rat)		-
Dihydromyrcenol 18479-58-8	3600 mg/kg	5 g/kg	-
3-(1,3-Benzodioxol-5-yl)-2-methylpropanal 1205-17-0	3550 mg/kg	-	-
Geraniol 106-24-1	4200 mg/kg	5 g/kg	-
Nerol 106-25-2	4500 mg/kg	5 g/kg (Rabbit)	-
1-(2,6,6-Trimethylcyclohex-3-en-1-yl)but-2-en-1-one 57378-68-4	1600 mg/kg	-	-
Methyl eugenol 93-15-2	810 mg/kg	2025 mg/kg	-

11.2 Information on Toxicological Effects

Symptoms:

No information available.

11.3 Delayed and Immediate Effects as Well as Chronic Effects Form Short and Long-term Exposure

Sensitization: No information available.
Mutagenic Effects: No information available.
Carcinogenicity: The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical Name	ACGIH	IARC	NTP	OSHA
Methyl eugenol 93-15-2	-	2B	Reasonably Anticipated	-

IARC: (International Agency for Research on Cancer)

Group 2B - Possibly Carcinogenic to Humans

NTP: (National Toxicity Program)

Reasonably Anticipated - Reasonably Anticipated to be a Human Carcinogen

Reproductive Toxicity: No information available.
STOT - Single Exposure: No information available.
STOT - Repeated Exposure: No information available.
Chronic Toxicity: Repeated contact may cause allergic reactions in very susceptible persons. Avoid repeated exposure.
Aspiration Hazard: No information available.

11.4 Numerical Measures of Toxicity - Product Information

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

ATEmix (Oral): 2327 mg/kg
ATEmix (Dermal): 6626 mg/kg
ATEmix(Inhalation): 610.2 mg/l

SECTION 12: Ecological Information

12.1 Ecotoxicity

4.501% of the mixture consists of component(s) of unknown hazards to the aquatic environment.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Daphnia and Other Aquatic Invertebrates
3,7-Dimethyloctan-3-ol 78-69-3	EC50: 19 mg/L) EC50: 6.2 mg/L EC50: 2.7 mg/L	LC50: 5.7 mg/L LC50: 5000 mg/L LC50: 4.78 - 8.85 mg/L LC50: 3.6 - 5.1 mg/L) LC50: 1.04 mg/L LC50: 13 mg/L LC50: 8.37 mg/L LC50: 10 mg/L LC50: 0.6 mg/L	EC50: 3 mg/L EC50: 320 mg/L EC50: 8.5 mg/L LC50: 6.2 mg/L LC50: 3.4 mg/L EC50: 4.78 - 8.87 mg/L
Citronellol 106-22-9	-	LC50: 10 - 22 mg/L	EC50: 17 mg/L
Benzenepropanal, 4-(1,1-dimethylethyl)-.alpha.-methyl- 80-54-6	-	lc50: 2.2 - 4.6 mg/L	EC50: 10.7 mg/L
2-Propanol, 1,1'-oxybis- 110-98-5	-	LC50: 5000 mg/L	-
2-Phenylethanol 60-12-8	EC50: 490 mg/L	LC50:220 460 mg/L	EC50: 287.17 mg/L
Ethyl 3-oxobutanoate 141-97-9	EC50: 500 mg/L	LC50: 307 mg/L LC50: 290 mg/L LC50: 298 mg/L	EC50: 790 mg/L EC50: 646 mg/L
n-Amyl acetate 628-63-7	-	LC50: 650 mg/L	-

12.2 Persistence and Degradability No data available.

12.3 Bioaccumulative Potential

Chemical Name	log Pow
Benzyl acetate 140-11-4	1.96
3,7-Dimethyloctan-3-ol 78-69-3	3.9
Citronellol 106-22-9	3.41
Benzenepropanal, 4-(1,1-dimethylethyl)-.alpha.-methyl- 80-54-6	4.2

12.4 Mobility in Soil No data available.

12.5 Other Adverse Effects No data available.

SECTION 13: Disposal Considerations

13.1 Waste Treatment Methods

Do not allow product to reach sewage systems. Dispose of in accordance with all local and national regulations. Send to a licensed waste management company. The product should not be allowed to enter drains, water courses or the soil. Do not contaminate ponds, waterways or ditches with chemical or used container.

13.2 Additional Information

This product contains one or more substances that are listed with the State of California as a hazardous waste.

SECTION 14: Transport Information

14.1 Transport Information

DOT

Not regulated.

BULK PACKAGING

Reportable Quantity (RQ):

Please refer to Appendix A to 49CFR 172.101 - List of Hazardous Substances and Reportable Quantities.

DOT

**NON BULK PACKAGING
Reportable Quantity (RQ):**

Please refer to Appendix A to 49CFR 172.101 - List of Hazardous Substances and Reportable Quantities.

IMDG/IMO

UN Number:
Proper Shipping Name:

Hazard Classification:
Packaging Group:
Marine Pollutant:

Reportable Quantity (RQ):

3082
Environmentally hazardous substances, liquid, n.o.s. (Benzyl benzoate)
9
III
This product contains a chemical which is listed as a marine pollutant according to IMDG/IMO.
Please refer to Appendix A to 49CFR 172.101 - List of Hazardous Substances and Reportable Quantities.

MEX(SCT)

UN Number:
Proper Shipping Name:

Hazard Classification:
Packaging Group:
Reportable Quantity (RQ):

3082
Environmentally hazardous substances, liquid, n.o.s. (Benzyl benzoate)
9
III
Please refer to Appendix A to 49CFR 172.101 - List of Hazardous Substances and Reportable Quantities.

ICAO/IATA

UN Number:
Proper Shipping Name:

Hazard Classification:
Packaging Group:
Reportable Quantity (RQ):

3082
Environmentally hazardous substances, liquid, n.o.s. (Benzyl benzoate)
9
III
Please refer to Appendix A to 49CFR 172.101 - List of Hazardous Substances and Reportable Quantities.

TDG

UN Number: 3082
Proper Shipping Name: Environmentally hazardous substances, liquid, n.o.s. (Benzyl benzoate)
Hazard Classification: 9
Packaging Group: III
Reportable Quantity (RQ): Please refer to Appendix A to 49CFR 172.101 - List of Hazardous Substances and Reportable Quantities.

ADR/RID

UN Number: 3082
Proper Shipping Name: Environmentally hazardous substances, liquid, n.o.s. (Benzyl benzoate)
Hazard Classification: 9
Packaging Group: III

SECTION 15: Regulatory information

15.1 International Inventories

TSCA	Complies
DSL/NDSL	Complies
EINECS/ELINCS	-
ENCS	Not determined
IECSC	Not determined
KECL	Not determined
PICCS	Not determined
AICS	Not determined

Legend

TSCA: United States Toxic Substance Control Act Section 8(b) Inventory
DSL/NDSL: Canadian Domestic Substances List / Non-Domestic Substances List
EINECS/ELINCS: European Inventory of Existing Commercial Chemical Substances / EU List of Notified Chemical Substances
ENCS: Japan Existing and New Chemical Substances
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

15.2 US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code Federal Regulations, Part 372.

SARA 311/312 Hazard Categories

Acute Health Hazard	Yes
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA)(40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA)(40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

15.3 U.S. State Regulations

California Proposition 65

This product contains the following Proposition 65 chemicals:

Chemical Name	California Pop. 65
Methyl eugenol 93-15-2	Carcinogen

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Benzyl acetate 140-11-4	X	-	-
Isoamyl acetate 123-92-2	X	X	X
n-Amyl acetate 628-63-7	X	X	X
Methyl eugenol 93-15-2	X	-	-

U.S. EPA Label information

EPA Pesticide Registration Number: Not applicable.

SECTION 16: Other Information

16.1 NFPA Rating

Health Hazards: 2
Flammability: 1
Instability: 0
Physical and Chemical Properties: -

16.2 HMIS Rating

Health Hazards: 2
Flammability: 1
Physical Hazards: 0
Personal Protection: X

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

H227: Combustible liquid.	H302: Harmful if swallowed.
H303: May be harmful if swallowed.	H313: May be harmful in contact with skin.
H315: Causes skin irritation.	H316: Causes mild skin irritation.
H317: May cause an allergic skin reaction.	H318: Causes serious eye damage.
H319: Causes serious eye irritation.	H320: Causes eye irritation.
H341: Suspected of causing genetic defects.	H351: Suspected of causing cancer.
H360: May damage fertility or the unborn child.	H400: Very toxic to aquatic life.
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.
	H412: Harmful to aquatic life with long lasting effects.

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.