

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

- 1.1 Product Name:** Vanilla-Banilla Flavor Oil
Product Code: 310-106X
- 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

OSHA Regulatory Status

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

Flammable Liquids, Category 3
Skin Sensitization, Category 1B

H226: Flammable liquid and vapor.
H317: May cause an allergic skin reaction.

Eye Damage/Irritation, Category 1

H318: Causes serious eye damage.

2.2 Label Elements

Symbol(s) of Product:



Signal Word:

Danger.

Hazard Statements

H226	Flammable liquid and vapor.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.

Precautionary Statements

Prevention:

P210	Keep away from heat, hot surface, sparks, open flames and other ignition sources. - No smoking.
P233	Keep container tightly closed.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof [electrical/ventilating/lighting] equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P261	Avoid breathing dust/fume/gas/mist/vapors/spray.
P272	Contaminated work clothing should not be allowed out of the workplace.
P280	Wear protective gloves/protective clothing/eye protection/face protection.

Response:

P321	Specific treatment (see supplemental first aid instruction on this label).
P370	In case of fire: Use CO ₂ , dry chemical, or foam for extinction.

Storage:

P403+P235	Store in a well-ventilated place. Keep cool.
-----------	--

Disposal:

P501	Dispose of contents/container to an approved waste disposal plant.
------	--

2.3 Hazards Not Otherwise Classified (HNOC)

Other Information

May be harmful if swallowed.
Causes mild skin irritation.
Toxic to aquatic life with long lasting effects.
Toxic to aquatic life.

Unknown Acute Toxicity: 2.48% of the mixture consists of ingredient(s) of unknown toxicity.

SECTION 3: Composition/Information on Ingredients**3.1 Substances**

Chemical Name	CAS-No	Weight %	Classification
Benzyl benzoate	120-51-4	>= 25 - 100	H302; H313; H400; H411
Vanillin	121-33-5	15 - < 20	H303; H319
Benzaldehyde, 3-ethoxy-4-hydroxy-	121-32-4	5 - < 10	H303; H320; H402
Ethyl lactate	97-64-3	1 - < 5	H226; H318; H335
Butanoic acid, 2-butoxy-1-methyl-2-oxoethyl ester	7492-70-8	1 - < 5	H316
p-Anisaldehyde	123-11-5	1 - < 5	H303; H316; H402
4H-Pyran-4-one,2-ethyl-3-hydroxy-	494011-8	1 - < 5	H302
1,3-Benzodioxole-5-carboxaldehyde	120-57-0	1 - < 5	H303; H317; H401
Acetyl methyl carbinol	513-86-0	1 - < 5	H226; H316
Ethyl acetate	141-78-6	1 - < 5	H225; H319; H336
2H-Pyran-2-one, tetrahydro-6-pentyl	705-86-2	1 - < 5	H226; H402
Eugenol	97-53-0	0.1 - 1	H303; H316; H317; H319; H401

For the full text of H-Statements see Section 16.

SECTION 4: First Aid Measures

4.1 Description of First Aid Measures

- General Advice:** Immediate medical attention is required. Show this material safety data sheet to the doctor in attendance. If symptoms persist, call a physician.
- Inhalation:** Immediate medical attention is not required. 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. 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.
- Eye Contact:** Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. If symptoms persist, call a physician.
- Ingestion:** Rinse mouth. Drink plenty of water. Do not induce vomiting. Never give anything mouth to an unconscious person. If symptoms persist, call a physician.

4.2 Most Important Symptoms/Effects, Acute and Delayed

No information available.

4.3 Indication of Immediate Medical Attention and Special Treatment Needed

No information available.

SECTION 5: Firefighting Measures

5.1 Extinguishing Media

- Suitable:** Water spray/mist, Foam, Carbon Dioxide (CO₂), and Dry Chemical. Water may be used to cool off containers.
- Unsuitable:** Do not use a solid water stream as it may scatter and spread fire.

5.2 Special Hazards Arising from the Substance or Mixture

Flammable.

Explosion Data

Sensitivity to Mechanical Impact: None.

Sensitivity to Static Discharge: Yes.

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

Remove all sources of ignition. Evacuate personnel to safe areas. Ensure adequate ventilation. Use personal protective equipment. Keep people away from and upwind of spill/leak.

6.2 Environmental Precautions

Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. 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. Pick up and transfer to properly labeled containers. Dam up. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Soak up with inert absorbent material.

SECTION 7: Handling and Storage

7.1 Precautions for Safe Handling

Ensure adequate ventilation. Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharges. Use only in an area containing flame proof equipment. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded. Use only in area provided with appropriate exhaust ventilation. Wear personal protective equipment. Do not breathe vapors or spray mist.

7.2 Conditions for Safe Storage

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

SECTION 8: Exposure Controls/Personal Protection

8.1 Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Ethyl acetate 141-78-6	TWA: 400 ppm	TWA: 400 ppm TWA: 1400 mg/m ³ (vacated) TWA: 400 ppm (vacated) TWA: 1400 mg/m ³	IDLH: 2000 ppm TWAL 400 ppm TWA: 1400 mg/m ³

Engineering Measures: Showers, eyewash stations, and ventilation systems.

8.2 Personal Protection

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 Protection: Chemical resistant apron and gloves.

Eye Protection: Tightly fitting safety goggles. Face-shield.

Hygienic Practices: 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:	Liquid
Appearance:	Clear light yellow to yellow
Odor:	Characteristic
Odor Threshold:	Not established
Specific Gravity (typical):	1.0780
pH:	Not measured
Freeze Point, °C:	Not applicable
Viscosity:	Not measured
Solubility in Water:	Insoluble

Partition Coefficient, n-octanol/water:	Not measured
Decomposition Temperature, °C:	Not measured
Boiling Point/Range:	410°F / 210°C
Explosive Limits, %:	Not measured
Flash Point:	126°F / 52°C
Evaporation Rate:	Not measured
Flammable Properties:	Flammable; may be ignited by heat, sparks or flames.
Vapor Density:	Not measured
Auto-Ignition Temperature, °C:	Not measured
Vapor Pressure, mmHg:	Not measured

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

Heat, flames and sparks.

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.

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Benzyl benzoate 120-51-4	1500 mg/kg	4000 mg/kg (Rabbit)	-
Vanillin 121-33-5	3500 mg/kg	5010 mg/kg (Rabbit)	-
Benzaldehyde, 3-ethoxy-4-hydroxy- 121-32-4	3000 mg/kg	7940 mg/kg (Rabbit)	-
Ethyl lactate 97-64-3	2000 mg/kg (Rat)	5000 mg/kg (Rat)	-
p-Anisaldehyde 123-11-5	1500 mg/kg	5 g/kg (Rabbit)	-
4H-Pyran-4-one, 2-ethyl-3-hydroxy 4940-11-8	1200 mg/kg	5 g/kg (Rabbit)	-
1,3-Benzodioxole-5-carboxaldehyde 120-57-0	2700 mg/kg	5 g/kg (Rat)	-
Acetyl methyl carbinol 513-86-0	5 g/kg (Rat)	5 g/kg (Rabbit)	-
Ethyl acetate 141-78-6	5620 mg/kg (Rat)	20 mL/kg (Rabbit)	-
Eugenol 97-53-0	2300 mg/kg	-	-

11.2 Information on Toxicological Effects

Symptoms: No information available.

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: The table below indicates whether each agency has listed any ingredient as a carcinogen.

ACGIH: (American Conference of Governmental Industrial Hygienists)	A3 - Animal Carcinogen
IARC: (International Agency for Research on Cancer)	Group 1 - Carcinogenic to Humans
NTP: (National Toxicity Program)	Known - Known Carcinogen
OSHA: (Occupational Safety & Health Administration)	X - Present

Reproductive Toxicity: No information available.
STOT (Single Exposure): No information available.
STOT (Repeated Exposure): No information available.
Chronic Toxicity: Avoid repeated exposure.
Target Organ Effects: Eyes, Respiratory system, Skin.
Aspiration Hazard: No information available.

11.4 Numerical Measures of Toxicity - Product Information

Unknown Acute Toxicity: 2.48% of the mixture consists of ingredient(s) of unknown toxicity.

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

ATEmix (oral)	2961 mg/kg
ATEmix (dermal)	7431 mg/kg

SECTION 12: Ecological Information

12.1 Ecological Information

39.8% 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
Vanillin 121-33-5	-	LC50: 57 mg/L 96 h semi-static (Pimephales promelas) LD50: 88 mg/L 96h static (Pimephales promelas) LD50: 53-61.3 mg/L 96h flow-through (Pimephales promelas)	EC50: 180 mg/L 25h (Daphnia magna)
Benzaldehyde, 3-ethoxy-4-hydroxy- 121-32-4	-	LC50: 81.4 - 94.3 mg/L 96h flow-through (Pimephales promelas)	-
Ethyl acetate 141-78-6	EC50: 3300 mg/L 48h (Desmodemus subspicatus)	LC50: 220 - 2500000 mg/L 96h flow-through (Pimephales promelas) LC50: 352 - 500 mg/L 96h semi-static (Oncorhynchus mykiss) LC50: 484 mg/L 96h flow-through (Oncorhynchus mykiss)	EC50: 560 mg/L 48h Static (Daphnia magna)

12.2 Persistence and Degradability

No information available.

12.3 Bioaccumulation

No information available.

Chemical Name	log Pow
Vanillin 121-33-5	1.23
Ethyl acetate 141-78-6	0.6

12.4 Other Adverse Effects

No information available.

SECTION 13: Disposal Considerations

13.1 Waste Treatment Methods

Dispose of in accordance with local regulations. This material, as supplied, is a hazardous waste according to federal regulations.

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

Chemical Name	California Hazardous Waste Status
Ethyl acetate 141-78-6	Toxic - Ignitable

SECTION 14: Transport Information

14.1 Transport Information

DOT

Bulk Packaging

Note: According to 49 CFR 173.150(f)(1), this material was reclassified as combustible liquid, when shipped in bulk.

NA Number: 1993
Proper Shipping Name: Combustible liquid, n.o.s. (Ethyl lactate)
Hazard Classification: 3
Packing Group: III
Reportable Quantity (RQ): Please Refer to Appendix A to 49 CFR 172.101 - List of Hazardous Substances and Reportable Quantities

DOT

Non Bulk Packaging

Note: According to 49 CFR 173.150(f)(1), this material was reclassified as a combustible liquid. This provision does not apply to transportation by vessel or aircraft, except where other means of transportation is impractical.

NA Number: 1993
Proper Shipping Name: Combustible liquid, n.o.s. (Ethyl lactate)
Hazard Classification: 3
Packing Group: III
Reportable Quantity (RQ): Please Refer to Appendix A to 49 CFR 172.101 - List of Hazardous Substances and Reportable Quantities

IMDG/IMO

UN Number: 1197
Proper Shipping Name: Extracts, flavoring, liquid
Hazard Classification: 3
Packaging Group: III
Marine Pollutant: This product contains a chemical which is listed as a marine pollutant according to IMDG/IMO.
Reportable Quantity (RQ): Please Refer to Appendix A to 49 CFR 172.101 - List of Hazardous Substances and Reportable Quantities

MEX (SCT)

UN Number: 1197
Proper Shipping Name: Extracts, flavoring, liquid
Hazard Classification: 3
Packaging Group: III
Reportable Quantity (RQ): Please Refer to Appendix A to 49 CFR 172.101 - List of Hazardous Substances and Reportable Quantities

ICAO/IATA

UN Number: 1197
Proper Shipping Name: Extracts, flavoring, liquid
Hazard Classification: 3
Packaging Group: III
Reportable Quantity (RQ): Please Refer to Appendix A to 49 CFR 172.101 - List of Hazardous Substances and Reportable Quantities

TDG

UN Number: 1197
Proper Shipping Name: Extracts, flavoring, liquid
Hazard Classification: 3
Packaging Group: III
Reportable Quantity (RQ): Please Refer to Appendix A to 49 CFR 172.101 - List of Hazardous Substances and Reportable Quantities

RID

UN Number: 1197
Proper Shipping Name: Extracts, flavoring, liquid
Hazard Classification: 3
Packaging Group: III

ADR/RID

UN Number:	1197
Proper Shipping Name:	Extracts, flavoring, liquid
Hazard Classification:	3
Packaging Group:	III

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 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 U.S. 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 of Federal Regulations, Part 372.

SARA 311/312 Hazard Categories

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

Clean Water Act

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42): None.

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302):

Chemical Name	Hazardous Substance RQ's	Extremely Hazardous Substances RQ's	RQ's
Ethyl acetate 141-78-6	5000 lb	-	RQ 5000 lb final RQ RQ 2270 kg final RQ

15.3 U.S. State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Ethyl lactate 97-64-3	X	X	X
Acetyl methyl carbinol 513-86-0	X	-	-
Ethyl acetate 141-78-6	X	X	X
Ethyl alcohol 64-17-5	X	X	X
Isoamyl acetate 123-92-2	X	X	X
Acetic acid 64-19-7	X	X	X

U.S. EPA Label Information

EPA Pesticide Registration Number: Not applicable.

SECTION 16: Other Information

16.1 NFPA

Health Hazard:	0
Flammability:	2
Instability:	0
Physical and Chemical Hazards:	-

16.2 HMIS

Health Hazard:	0
Flammability:	2
Physical Hazard:	0
Personal Protection:	X

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.