

SECTION 1: IDENTIFICATION

Product Name: Sol 1990

Product Description: Base

Product Form: Mixture

Recommended Use: Perfume ingredient

Recommended Restrictions: For manufacturing use only

Company: Deep South Fragrance

11 Coolidge Avenue

Ormond Beach, Florida 32174

For Information Email: support@deepsouthfragrance.com

Emergency Contact Information: Poison Control Center - (800) 222-1222

SECTION 2: HAZARD(S) IDENTIFICATION**2.1 CLASSIFICATION OF THE SUBSTANCE OR MIXTURE**

Class and Category of Danger: Skin Corrosion/Irritation Category 2
Eye Damage/Irritation Category 2
Sensitization - Skin Category 1
Hazardous to the Aquatic Environment - Acute Hazard Category 2
Hazardous to the Aquatic Environment - Long-term Hazard Category 2
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

2.2 LABEL ELEMENTS

Signal Word: Warning

Hazard Statement: 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

Precautionary Statements: P261 Avoid breathing vapor or dust
P264 Wash hands and other contacted 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/eye protection/face protection
P302 + P352 IF ON SKIN: Wash with plenty of soap and water

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contacts if present and easy to do. Continue rinsing

P333 + P313 If skin irritation or rash occurs get medical advise/attention

P337 + P313 If eye irritation persists get medical advice/attention

P362 Take off contaminated clothing and wash before reuse

P391 Collect spillage

P501 Dispose of contents/container to approved disposal site, in accordance with local regulations

(GHS) Hazard Symbol(s):



2.3 OTHER HAZARDS

Other Hazards: Hydrocarbon Concentration: 0.0000%

SECTION 3: HAZARD(S) COMPOSITION AND INFORMATION ON INGREDIENTS

3.2 MIXTURES

This product is a mixture of ingredients containing the following substances representing a health or environmental hazard according to GHS (Global Harmonized System).

SUBSTANCE	CAS #	PERCENTAGE
METHYL DIHYDROJASMONATE	24851-98-7	10-<20%
1-(1,2,3,4,5,6,7,8-OCTAHYDRO-2,3,8,8-TETRAMETHYL-2-NAPHTHALENYL)ETHANONE	54464-57-2	10-<20%
ETHYLENE BRASSYLATE	105-95-3	5-<10%
VANILLIN	121-33-5	5-<10%
ETHYL MALTOL	4940-11-8	1-<5%
ETHYL VANILLIN	121-32-4	1-<5%
E- AND Z-OXACYCLOHEXADEC-12 (+13)-EN-2-ONE	111879-80-2	1-<5%
1,3,4,6,7,8-HEXAHYDRO-4,6,6,7,8,8-HEXAMETHYLCYCLOPENTA-gamma-2-BENZOPYRAN	1222-05-5	1-<5%
LINALYL ACETATE	115-95-7	1-<5%
3,7-DIMETHYL-1,6-NONADIEN-3-OL	10339-55-6	1-<5%
d-LIMONENE	5989-27-5	1-<5%
2-ETHYL-4-(2,2,3-TRIMETHYL-3-CYCLOPENTEN-1-YL)-2-BUTEN-1-OL	28219-61-6	1-<5%

2-ISOBUTYL-4-METHYLTETRAHYDRO-2H-PYRAN-4-OL	63500-71-0	1-<5%
HEXYL SALICYLATE	6259-76-3	1-<5%
4-METHOXY-alpha-METHYLBENZENEPROPANAL	5462-06-6	1-<5%
alpha,alpha-DIMETHYLPHENETHYL BUTYRATE	10094-34-5	1-<5%
CEDROL METHYL ETHER	19870-74-7	1-<5%
FORMALDEHYDE CYCLODODECYL ETHYL ACETAL	58567-11-6	1-<5%
2-METHYL-3-(p-ISOPROPYLPHENYL)PROPIONALDEHYDE	103-95-7	0.1-<1%
GERANYL ACETATE	105-87-3	0.1-<1%
HYRDOXYCITRONELLAL	107-75-5	0.1-<1%
dl-CITRONELLOL	106-22-9	0.1-<1%
COUMARIN	91-64-5	0.1-<1%
6,6-DIMETHOXY-2,5,5-TRIMETHYLHEX-2-ENE	67674-46-8	0.1-<1%
OXACYCLOHEPTADEC-10-ENE-2-ONE	28645-51-4	0.1-<1%
p-ISOBUTYL-alpha-METHYL HYDROCINNAMALDEHYDE	6658-48-6	0.1-<1%
TIMBEROL	70788-30-6	0.1-<1%
GERANIOL	106-24-1	0.1-<1%
MUSK KETONE	81-14-1	0.1-<1%
gamma-OCTALACTONE	104-50-7	0.1-<1%
PIPERONAL	120-57-0	0.1-<1%
alpha-1-(2,6,6-TRIMETHYL-2-CYCLOHEXEN-1-YL)-2-BUTEN-1-ONE	43052-87-5	0.1-<1%
CINNAMALDEHYDE	104-55-2	<0.1%

Trade Secret Declaration: The exact chemical makeup of this mixture is held as a trade secret. Additional information will be made available upon request from authorized medical professionals through normal legal channels.

SECTION 4: FIRST AID MEASURES

4.1 DESCRIPTION OF FIRST AID MEASURES

Inhalation: Remove from exposure site to fresh air, keep at rest and obtain medical attention.

Eye Exposure: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Ingestion (Swallowing): Rinse mouth with water and obtain medical attention if you feel unwell.

Skin Exposure: IF ON THE SKIN: Remove contaminated clothes. Wash with soap and water.

4.2 MOST IMPORTANT SYMPTOMS AND EFFECTS (BOTH ACUTE AND DELAYED)

Causes skin irritation

May cause an allergic skin reaction

Causes serious eye irritation

4.3 INDICATION OF ANY IMMEDIATE ATTENTION AND SPECIAL TREATMENT NEEDED

None expected. See Section 4.1 for additional information.

SECTION 5: FIRE FIGHTING MEASURES

5.1 SUITABLE EXTINGUISHING MEDIA

Carbon dioxide (CO₂), foam or dry chemical

5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

In case of fire - May be liberated: Carbon Monoxide, unidentified organic compounds.

5.3 ADVICE FOR FIRE FIGHTERS

In case of insufficient ventilation, wear suitable respiratory equipment.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

Avoid inhalation. Avoid contact with skin and eyes. See protective measures under Sections 7 and 8

6.2 ENVIRONMENTAL PRECAUTIONS

Keep away from drains, surface and ground water and soil.

6.3 METHODS AND MATERIAL FOR CONTAINMENT CLEANUP

Remove ignition sources. Provide adequate ventilation. Avoid excessive inhalation of vapors. Contain spillage immediately by use of sand or inert powder. Dispose of according to local regulations.

6.4 REFERENCE TO OTHER SECTIONS

Also refer to Section 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1 PRECAUTIONS FOR SAFE HANDLING

Keep away from heat, sparks, open flames and hot surfaces. No smoking. Use personal protective equipment as required. Use in accordance with good manufacturing and industrial hygiene practices. Use in areas with adequate ventilation. Do not eat, drink or smoke when using this product.

7.2 CONDITIONS FOR SAFE STORAGE INCLUDING ANY INCOMPATIBILITIES

Store in well ventilated place. Keep container tightly closed. Keep cool. Ground/bond container and receiving equipment. Use explosion proof electrical, ventilating and lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge.

7.3 SPECIFIC END USE(S)

Fragrances: Use in accordance with good manufacturing and industrial hygiene practices.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 CONTROL PARAMETERS

Workplace Exposure Limits: Not applicable

8.2 EXPOSURE CONTROLS

Eye/Skin Protection: Wear protective gloves/eye protection/face protection.

Respiratory Protection: Under normal conditions of use and where adequate ventilation is available to prevent build up of excessive vapor, this material should not require engineering controls. However, in conditions of high or prolonged use or high temperature or other conditions which increase exposure, the following engineering controls can be used to minimize exposure to personnel: a) Increase ventilation of the area with local exhaust ventilation b) Personnel can use an approved, appropriately fitted respirator with organic vapor cartridge or canisters and particulate filters c) Use closed systems for transferring and processing this material.

Also refer to Sections 2 and 7.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Free flowing liquid without sediment
Odor:	Characteristic
Odor Threshold:	Not determined
pH:	Not determined
Melting Point/Freezing Point:	Not determined
Initial Boiling Point/Range:	Not determined
Flash Point:	>93 Degrees C
Evaporation Point:	Not determined
Flammability (Solid, Gas):	Not determined
Explosive Limits:	Not an explosion hazard
Vapor Pressure:	Not determined
Vapor Density:	Not determined

Relative Density:	0.9890 - 0.9990
Solubility(ies):	Not determined
Partition Coefficient: n-octanol/water:	Not determined
Auto Ignition Temperature:	Not determined
Decomposition Temperature:	Not determined
Explosive Properties:	Not expected
Oxidizing Properties:	Not expected

9.2 OTHER INFORMATION

Refractive Index @ 20C:	1.4863 - 1.4893
Flash Point:	>200 Degrees F
Calculated VOC:	0.00

SECTION 10: STABILITY AND REACTIVITY

10.1 REACTIVITY

Product is non-reactive under normal conditions including transport, storage and use.

10.2 CHEMICAL STABILITY

Good stability under normal conditions including transport, storage and use.

10.3 POSSIBILITY OF HAZARDOUS REACTIONS

No dangerous reactions known under normal conditions.

10.4 CONDITIONS TO AVOID

Avoid freezing, excessive temperatures, open flame and improper storage. Avoid contamination.

10.5 INCOMPATIBLE MATERIALS

Avoid contact with strong acids, alkalis or oxidizing agents.

10.6 HAZARDOUS DECOMPOSITION PRODUCTS

None expected.

SECTION 11: TOXICOLOGY INFORMATION

This mixture has not been tested, as a whole, for health effects. The health effects have been calculated using the methods outlined in UN GHS.

Acute Toxicity:	Based on available data the classification criteria are not met.
Acute Oral Toxicity:	>5000
Acute Toxicity Dermal:	Not determined

Acute Toxicity Inhalation:	Not determined
Skin Corrosion/Irritation:	Category 2
Serious Eye Damage/Irritation:	Category 2
Respiratory or Skin Sensitization:	Skin Category 1
Germ Cell Mutagenicity:	Based on available data the classification criteria are not met.
Carcinogenicity:	Based on available data the classification criteria are not met.
Reproductive Toxicity:	Based on available data the classification criteria are not met.
STOT - Single Exposure:	Based on available data the classification criteria are not met.
STOT - Repeated Exposure:	Based on available data the classification criteria are not met.
Aspiration Hazard:	Based on available data the classification criteria are not met.

Information About Hazardous Ingredients in the Mixture

INGREDIENT	LD50/ATE ORAL	LD50/ATE DERMAL	LD50/ATE INHALATION	LC50 Route
3,7-DIMETHYL-1,6-NONADIEN-3-OL	5000	N/A	N/A	N/A
4-METHOXY-alpha-METHYLBENZENEPROPANAL	4000	N/A	N/A	N/A
ETHYL MALTOL	1200	N/A	N/A	N/A
ETHYL VANILLIN	3000	N/A	N/A	N/A
VANILLIN	3500	N/A	N/A	N/A

Refer to Section 2 and 3 for additional information.

SECTION 12: ECOLOGICAL INFORMATION

12.1 TOXICITY

Very toxic to aquatic life with long lasting effects

12.2 PERSISTENCE AND DEGRADABILITY

No information available.

12.3 BIO ACCUMULATIVE POTENTIAL

No information available.

12.4 MOBILITY IN SOIL

No information available.

12.5 OTHER ADVERSE EFFECTS

No information available.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 WASTE TREATMENT METHODS

Dispose in accordance with local regulations. Avoid disposing into drainage systems and into the environment. Empty containers should be taken to an approved waste handling site for recycling or disposal.

SECTION 14: TRANSPORTATION INFORMATION

14.1 UN NUMBER	14.2 UN PROPER SHIPPING NAME	14.3 TRANSPORT HAZARD CLASS(ES)	14.4 PACKING GROUP
UN Model Regulations: UN3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (1- (1,2,3,4,5,6,7,8-Octahydro-2,3,8,8- tetramethyl-2-naphthalenyl)ethanone, 1,3,4,6,7,8-Hexahydro-4,6,6,7,8,8- hexamethylcyclopentagamma-2- benzopyran)	9	III
IMDG: UN3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (1- (1,2,3,4,5,6,7,8-Octahydro-2,3,8,8- tetramethyl-2-naphthalenyl)ethanone, 1,3,4,6,7,8-Hexahydro-4,6,6,7,8,8- hexamethylcyclopentagamma-2- benzopyran) MARINE POLLUTANT	9	III
ADR, RID, ADN: UN3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (1- (1,2,3,4,5,6,7,8-Octahydro-2,3,8,8- tetramethyl-2-naphthalenyl)ethanone, 1,3,4,6,7,8-Hexahydro-4,6,6,7,8,8- hexamethylcyclopentagamma-2- benzopyran)	9	III
ICAO TI: UN3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (1- (1,2,3,4,5,6,7,8-Octahydro-2,3,8,8- tetramethyl-2-naphthalenyl)ethanone, 1,3,4,6,7,8-Hexahydro-4,6,6,7,8,8- hexamethylcyclopentagamma-2- benzopyran)	9	III

14.5 ENVIRONMENTAL HAZARDS

This is classified as an environmentally hazardous substance under the UN Model Regulations. This is classified as a Marine Pollutant under the IMDG Code.

14.6 SPECIAL PRECAUTIONS FOR USER

No additional precautions.

14.7 TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL37 AND THE IBC CODE

Not classified.

SECTION 15: REGULATORY INFORMATION

Essential Oil Components:

SUBSTANCE	CAS #	PERCENTAGE
LEMON OIL CALIFORNIA	8008-56-8	0.1-<1%
CLARY SAGE OIL	8016-63-5	<0.1%
PETITGRAIN OIL SA	8014-17-3	<0.1%

Additional Formulation Properties:

SUBSTANCE	CAS #	PERCENTAGE
VANILLIN	121-33-5	5-<10%
ETHYL VANILLIN	121-32-4	1-<5%

Components Listed on California's SB312:

SUBSTANCE	CAS #	PERCENTAGE
DIOCTYL ADIPATE (S) "DOA"	103-23-1	5-<10%
LINALOOL	78-70-6	1-<5%
HYRDOXYCITRONELLAL	107-75-5	0.1-<1%
PHENIRAT	103-60-6	0.1-<1%
COUMARIN	91-64-5	0.1-<1%
GERANIOL	106-24-1	0.1-<1%
CITRAL	5392-40-5	<0.1%
CINNAMALDEHYDE	104-55-2	<0.1%

SECTION 16: OTHER INFORMATION

Key To Revisions:

None

Disclaimer:

SAFETY DATA SHEET

The information and recommendations in this SDS were obtained from current and reputable sources and are being constantly updated. However, the data is provided without any warranty, express or implied, regarding its accuracy. It is the user's responsibility both to determine the safe conditions for the use of this product and to assume liability for loss, injury, damage, or expense resulting from the improper use of this product.