

PERFUMER'S APPRENTICE

Issue date: 02/17/2025

Version: 1 (02/17/2025)

SAFETY DATA SHEET

In accordance with UN GHS latest edition

Product: EN01 (Sol Orientur) SDS-EN01

Version: 1

Section 1. Identification of the substance or the mixture and of the supplier

1.1 Product Identifier

Product identifier: EN01 (Sol Orientur) SDS-EN01(Contains:1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-

naphthalenyl)ethanone, Aquaflora, Benzyl salicylate, d-Limonene)

Other identifiers: None

1.2 Relevant identified uses of the substance of mixture and uses advised against

Product uses: Fragrances

1.3 Details of the supplier of the safety data sheet

Company name: Perfumer's Apprentice
Company address: 170 Technology Circle

Scotts Valley CA 95066 USA

Contact: Elisabeth Hanson

E-Mail address: regulatory@perfumersapprentice.com

Company phone: (831)316-7137 1.4 Emergency telephone number

Emergency phone: ChemTel:1(800)255-3924, 01(813)248-0585 MIS6760377

Section 2. Hazards identification

2.1 Classification of the substance or mixture

Class and category of Skin Corrosion / Irritation Category 2 danger:

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 statements: 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 vapour or dust.





Version: 1 (02/17/2025)

SAFETY DATA SHEET

In accordance with UN GHS latest edition

Product: EN01 (Sol Orientur) SDS-EN01

Version: 1

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.

P302/352, IF ON SKIN: Wash with plenty of soap and water.

P305/351/338, IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing.

P333/313, If skin irritation or rash occurs: Get medical advice/attention.

P337/313, 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.



Pictograms:

2.3 Other hazards

Other hazards: Hydrocarbon Concentration %: 1.8665%

Section 3. Composition / information on ingredients

3.2 Mixtures

Contains:

Name	CAS	%	GHS Classification		
Methyl dihydrojasmonate	24851-98-7	13.51%	Aquatic Chronic 2;H411		
Benzyl salicylate	118-58-1	10.52%	Acute Tox. 5-Eye Irrit. 2B-Skin Sens. 1B-Aquatic Acute 2-Aquatic Chronic 3;H303-H317-H320-H401-H412		
1-(1,2,3,4,5,6,7,8-Octahydro- 2,3,8,8-tetramethyl-2- naphthalenyl)ethanone	54464-57-2	9.95%	Skin Irrit. 2-Skin Sens. 1B;H315-H317		
Ethylene brassylate	105-95-3	9.06%	Skin Irrit. 2-Aquatic Acute 2;H315-H401		
E- and Z-Oxacyclohexadec-12 (+13)-en-2-one	111879-80-2	7.01%	Skin Irrit. 3-Aquatic Acute 1-Aquatic Chronic 1;H316- H410		
Benzyl benzoate	120-51-4	6.00%	Acute Tox. 4-Acute Tox. 5-Aquatic Acute 1-Aquatic Chronic 2;H302-H313-H400-H411		
3,7-Dimethyl-1,6-nonadien-3-ol	10339-55-6	3.51%	Flam. Liq. 4-Skin Irrit. 2-Eye Irrit. 2A-Aquatic Acute 3; H227-H315-H319-H402		
Hydroxycitronellal-methyl anthranilate (Schiff base)	89-43-0	3.00%	Skin Irrit. 3;H316		
Benzyl acetate	140-11-4	2.36%	Acute Tox. 5-Skin Irrit. 2-Eye Irrit. 2-STOT SE 3-Aqua Acute 2-Aquatic Chronic 2;H303-H315-H319-H335- H411		

Version: 1 (02/17/2025)

SAFETY DATA SHEET

In accordance with UN GHS latest edition

Product: EN01 (Sol Orientur) SDS-EN01

Version: 1

d-Limonene	5989-27-5	1.87%	Flam. Liq. 3-Skin Irrit. 2-Skin Sens. 1B-Asp. Tox 1- Aquatic Acute 1-Aquatic Chronic 1;H226-H304-H315- H317-H410		
1,3,4,6,7,8-Hexahydro- 4,6,6,7,8,8- hexamethylcyclopenta-gamma- 2-benzopyran	1222-05-5	1.77%	Skin Irrit. 3-Aquatic Acute 1-Aquatic Chronic 1;H316- H410		
Aquaflora	1339119-15-1, 1338815- 87-4	1.46%	Acute Tox. 4-Acute Tox. 4-Skin Irrit. 2-Eye Irrit. 2A-Skin Sens. 1;H302-H315-H317-H319-H332		
Linalool	78-70-6	1.17%	Flam. Liq. 4-Acute Tox. 5-Skin Irrit. 2-Eye Irrit. 2A- Aquatic Acute 3;H227-H303-H315-H319-H402		
3-(o-Ethylphenyl)-2,2- dimethylpropionaldehyde	67634-14-4	1.17%	Skin Irrit. 3;H316		
p-tert- Butyldihydrocinnamaldehyde	18127-01-0	1.02%	Flam. Liq. 4-Acute Tox. 5-Skin Irrit. 2-Skin Sens. 1B-Repr. 2-STOT RE 2-Aquatic Acute 2-Aquatic Chronic 3; H227-H303-H315-H317-H361-H373-H401-H412		
6,7-Dihydro-1,1,2,3,3- pentamethyl-4(5H)-indanone	33704-61-9	0.88%	Acute Tox. 5-Skin Irrit. 2-Eye Irrit. 2A-Skin Sens. 1B- Aquatic Acute 2-Aquatic Chronic 2;H303-H315-H317- H319-H411		
Dihydrocoumarin	119-84-6	0.58%	Acute Tox. 4-Skin Irrit. 3-Skin Sens. 1B;H302-H316- H317		
Linalyl acetate	115-95-7	0.57%	Flam. Liq. 4-Skin Irrit. 2-Eye Irrit. 2A-Skin Sens. 1; H227-H315-H317-H319		
alpha-Hexylcinnamaldehyde	101-86-0	0.48%	Acute Tox. 5-Skin Irrit. 3-Skin Sens. 1B-Aquatic Acute 1-Aquatic Chronic 2;H303-H316-H317-H400-H411		
Coumarin	91-64-5	0.47%	Acute Tox. 3-Aquatic Acute 3-Aquatic Chronic 3;H301-H412		
Octahydrocoumarin	4430-31-3	0.47%	Acute Tox. 5-Acute Tox. 5-Eye Dam. 1;H303-H313- H318		
2,4-Dimethyl-2-(5,6,7,8- tetrahydro-5,5,8,8-tetramethyl-2- naphthalenyl)-1,3-dioxolane	131812-67-4	0.41%	Aquatic Acute 1-Aquatic Chronic 1;H410		
omega-Pentadecalactone	106-02-5	0.41%	Skin Irrit. 3-Skin Sens. 1B-Aquatic Chronic 2;H316- H317-H411		
Geraniol	106-24-1	0.30%	Flam. Liq. 4-Acute Tox. 5-Skin Irrit. 2-Eye Dam. 1-Eye Irrit. 2A-Skin Sens. 1-Aquatic Acute 3;H227-H303-H315-H317-H318-H319-H402		
Longifolene	475-20-7	0.26%	Skin Irrit. 3-Skin Sens. 1B-Asp. Tox 1-Aquatic Acute 1-Aquatic Chronic 1;H304-H316-H317-H410		
Hydroxycitronellal	107-75-5	0.20%	Eye Irrit. 2A-Skin Sens. 1B-Aquatic Acute 3;H317- H319-H402		
Oranger Crystals		0.20%	Acute Tox. 4-Skin Irrit. 2-Eye Irrit. 2A-STOT SE 3- Aquatic Acute 2-Aquatic Chronic 2;H302-H315-H319- H335-H411		
Myrcene	123-35-3	0.19%	Flam. Liq. 3-Skin Irrit. 2-Eye Irrit. 2A-Asp. Tox 1-Aquati Acute 1-Aquatic Chronic 2;H226-H304-H315-H319- H400-H411		
beta-Pinene	127-91-3	0.19%	Flam. Liq. 3-Skin Irrit. 2-Skin Sens. 1B-Asp. Tox 1- Aquatic Acute 1-Aquatic Chronic 1;H226-H304-H315- H317-H410		
p-Mentha-1,4-diene	99-85-4	0.19%	Flam. Liq. 3-Acute Tox. 5-Skin Irrit. 3-Repr. 2-Asp. Tox 1;H226-H303-H304-H316-H361		

Substances with workplace exposure limits, not listed above:

Not Applicable

Section 4. First-aid measures

4.1 Description of first aid measures





Version: 1 (02/17/2025)

SAFETY DATA SHEET

In accordance with UN GHS latest edition

Product: EN01 (Sol Orientur) SDS-EN01

Version: 1

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.

Skin exposure: IF ON SKIN: Wash with plenty of soap and water.

Ingestion: Rinse mouth with water and obtain medical attention.

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 medical attention and special treatment needed

None expected, see Section 4.1 for further information.

Section 5: Firefighting measures

5.1 Extinguishing media

Suitable media: Carbon dioxide, Dry chemical, Foam.

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 Section 7 and 8.

6.2 Environmental precautions:

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

6.3 Methods and material for containment and cleaning up:

Remove ignition sources. Provide adequate ventilation. Avoid excessive inhalation of vapours. 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 sections 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.





Version: 1 (02/17/2025)

SAFETY DATA SHEET

In accordance with UN GHS latest edition

Product: EN01 (Sol Orientur) SDS-EN01

Version: 1

7.2 Conditions for safe storage, including any incompatibilities:

Store in a 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 vapour, this material should not require special 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 minimise exposure to personnel: a) Increase ventilation of the area with local exhaust ventilation. b) Personnel can use an approved, appropriately fitted respirator with organic vapour 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: Not determined Odour: Not determined **Odour threshold:** Not determined :Ha Not determined **Melting point / freezing point:** Not determined Initial boiling point / range: Not determined > 93.5 °C Flash point: **Evaporation rate:** Not determined

Evaporation rate: Not determined Flammability (solid, gas): Not determined

Upper/lower flammability or explosive limits: Product does not present an explosion hazard

Vapour pressure:Not determinedVapour density:Not determinedRelative density:Not determinedSolubility(ies):Not determined





Version: 1 (02/17/2025)

SAFETY DATA SHEET

In accordance with UN GHS latest edition

Product: EN01 (Sol Orientur) SDS-EN01

Version: 1

Partition coefficient: n-octanol/water:

Auto-ignition temperature:

Not determined

Not determined

Not determined

Not determined

Viscosity:

Not determined

Not determined

Not determined

Not determined

Explosive properties:

Not expected

Not expected

9.2 Other information:None available

Section 10. Stability and reactivity

10.1 Reactivity:

Presents no significant reactivity hazard, by itself or in contact with water.

10.2 Chemical stability:

Good stability under normal storage conditions.

10.3 Possibility of hazardous reactions:

Not expected under normal conditions of use.

10.4 Conditions to avoid:

Avoid extreme heat.

10.5 Incompatible materials:

Avoid contact with strong acids, alkalis or oxidising agents.

10.6 Hazardous decomposition products:

Not expected.

Section 11. Toxicological information

11.1 Information on toxicological effects

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 Toxicity Oral >5000
Acute Toxicity Dermal >5000

Acute Toxicity Inhalation Not Available

Skin corrosion/irritation:Skin Corrosion / Irritation Category 2Serious eye damage/irritation:Eye Damage / Irritation Category 2Respiratory or skin sensitisation: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.

Version: 1 (02/17/2025)

SAFETY DATA SHEET

In accordance with UN GHS latest edition

Product: EN01 (Sol Orientur) SDS-EN01

Version: 1

STOT-single exposure:

Based on available data the classification criteria are not met.

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	CAS	LD50/ATE Oral	LD50/ATE Dermal	LC50/ATE Inhalation	LC50 Route
Aquaflora	1339119-15-1, 1338815- 87-4	500	Not available	11	Not available
Benzyl acetate	140-11-4	2490	Not available	Not available	Not available
Benzyl benzoate	120-51-4	1500	4000	Not available	Not available
Benzyl salicylate	118-58-1	2200	Not available	Not available	Not available
Coumarin	91-64-5	500	Not available	Not available	Not available
Linalool	78-70-6	2790	Not available	Not available	Not available
p-tert- Butyldihydrocinnamalde hyde	18127-01-0	2500	Not available	Not available	Not available

Refer to Sections 2 and 3 for additional information.

Section 12. Ecological information

12.1 Toxicity:

Toxic to aquatic life with long lasting effects.

12.2 Persistence and degradability: Not available
12.3 Bioaccumulative potential: Not available
12.4 Mobility in soil: Not available
12.5 Other adverse effects: Not available

Section 13. Disposal considerations

13.1 Waste treatment methods:

Dispose of 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. Transport information

	14.1 UN number:	14.2 UN Proper Shipping Name:	14.3 Transport hazard class (es):		14.4 Packing Group:
UN Model Regulations		ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (E- and	9	-	III



Version: 1 (02/17/2025)

SAFETY DATA SHEET

In accordance with UN GHS latest edition

Product: EN01 (Sol Orientur) SDS-EN01

Version: 1

Z-Oxacyclohexadec-12(+13)-en-2-one, d-Limonene)

		a Elitionolog			
IMDG	UN3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (E- and Z-Oxacyclohexadec-12(+13)-en-2-one, d-Limonene) MARINE POLLUTANT	9	-	III
ADR,RID,ADN	UN3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (E- and Z-Oxacyclohexadec-12(+13)-en-2-one, d-Limonene)	9	-	III
ICAO TI	UN3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (E- and Z-Oxacyclohexadec-12(+13)-en-2-one, d-Limonene)	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: None additional

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:

Not applicable

Section 15. Regulatory information

None additional

Section 16. Other information

Concentration % Limits: SCI 2=32.90% SCI 3=2.94% EDI 2A=37.43% EDI 2B=95.05% SS 1=9.

50% EH A2=10.95% EH A3=1.09% EH C2=18.26% EH C3=1.81% EH

C4=55.66%

Total Fractional Values: SCI 2=3.04 SCI 3=34.02 EDI 2A=2.67 EDI 2B=1.05 SS 1=10.52 EH A2=9.

13 EH A3=91.53 EH C2=5.48 EH C3=55.23 EH C4=1.80

Key to revisions:

Not applicable

Key to abbreviations:

Abbreviation	Meaning	
Acute Tox. 3	Acute Toxicity - Oral Category 3	
Acute Tox. 4	Acute Toxicity - Oral Category 4	
Acute Tox. 4	Acute Toxicity - Inhalation Category 4	
Acute Tox. 5	Acute Toxicity - Oral Category 5	
Acute Tox. 5	Acute Toxicity - Dermal Category 5	
Aquatic Acute 1	Hazardous to the Aquatic Environment - Acute Hazard Category 1	
Aquatic Acute 2	Hazardous to the Aquatic Environment - Acute Hazard Category 2	

Version: 1 (02/17/2025)

SAFETY DATA SHEET

In accordance with UN GHS latest edition

Product: EN01 (Sol Orientur) SDS-EN01

Version: 1

Aquatic Acute 3	Hazardous to the Aquatic Environment - Acute Hazard Category 3
Aquatic Chronic 1	Hazardous to the Aquatic Environment - Long-term Hazard Category 1
Aquatic Chronic 2	Hazardous to the Aquatic Environment - Long-term Hazard Category 2
Aquatic Chronic 3	Hazardous to the Aquatic Environment - Long-term Hazard Category 3
Asp. Tox 1	Aspiration Hazard Category 1
Eye Dam. 1	Eye Damage / Irritation Category 1
Eye Irrit. 2	Eye Damage / Irritation Category 2
Eye Irrit. 2A	Eye Damage / Irritation Category 2A
Eye Irrit. 2B	Eye Damage / Irritation Category 2B
Flam. Liq. 3	Flammable Liquid, Hazard Category 3
Flam. Liq. 4	Flammable Liquid, Hazard Category 4
H226	Flammable liquid and vapour.
H227	Combustible liquid.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H303	May be harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
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.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H361	Suspected of damaging fertility or the unborn child (exposure route).
H373	May cause damage to organs (organs) through prolonged or repeated exposure (exposure route).
H400	Very toxic to aquatic life.
H401	Toxic to aquatic life.
H402	Harmful to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
P202	Do not handle until all safety precautions have been read and understood.
P210	Keep away from heat, sparks, open flames and hot surfaces No smoking.
P233	Keep container tightly closed.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical, ventilating and lighting equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P260	Do not breathe vapour or dust.

Version: 1 (02/17/2025)

SAFETY DATA SHEET

In accordance with UN GHS latest edition

Product: EN01 (Sol Orientur) SDS-EN01

Version: 1

P261	Avoid breathing vapour or dust.	
P264	Wash hands and other contacted skin thoroughly after handling.	
P270	Do not eat, drink or smoke when using this product.	
P271	Use only outdoors or in a well-ventilated area.	
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.	
P301/310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.	
P301/312	IF SWALLOWED: call a POISON CENTER or doctor/physician if you feel unwell.	
P302/352	IF ON SKIN: Wash with plenty of soap and water.	
P303/361/353	IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.	
P304/340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.	
P305/351/338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.	
P308/313	IF exposed or concerned: Get medical advice/attention.	
P310	Immediately call a POISON CENTER or doctor/physician.	
P312	Call a POISON CENTRE or doctor/physician if you feel unwell.	
P330	Rinse mouth.	
P331	Do not induce vomiting.	
P332/313	If skin irritation occurs: Get medical advice/attention.	
P333/313	If skin irritation or rash occurs: Get medical advice/attention.	
P337/313	If eye irritation persists: Get medical advice/attention.	
P362	Take off contaminated clothing and wash before reuse.	
P363	Wash contaminated clothing before reuse.	
P370/378	In case of fire: Use carbon dioxide, dry chemical, foam for extinction.	
P391	Collect spillage.	
P403/233	Store in a well-ventilated place. Keep container tightly closed.	
P403/235	Store in a well-ventilated place. Keep cool.	
P405	Store locked up.	
P501	Dispose of contents/container to approved disposal site, in accordance with local regulations.	
Repr. 2	Toxic to Reproduction Category 2	
STOT RE 2	Specific Target Organ Toxicity (Repeated Exposure) Category 2	
STOT SE 3	Specific Target Organ Toxicity (Single Exposure) Category 3	
Skin Irrit. 2	Skin Corrosion / Irritation Category 2	
Skin Irrit. 3	Skin Corrosion / Irritation Category 3	
Skin Sens. 1	Sensitization - Skin Category 1	
Skin Sens. 1B	Sensitization - Skin Category 1B	

The information in this safety data sheet is to the best of our knowledge true and accurate but all data, instructions, recommendations and/or suggestions are made without guarantee.