

# SAFETY DATA SHEET

In accordance with UN GHS latest edition

**Product:** Sage Dalmatian Oil 8022-56-8

**Version:** 1

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

### 1.1 Product Identifier

**Product identifier:** Sage Dalmatian Oil 8022-56-8

**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 danger:** Flammable Liquid, Hazard Category 3  
Skin Corrosion / Irritation Category 2  
Eye Damage / Irritation Category 1  
Sensitization - Skin Category 1  
Specific Target Organ Toxicity (Single Exposure) Category 2  
Aspiration Hazard Category 1  
H226, Flammable liquid and vapour.  
H304, May be fatal if swallowed and enters airways.  
H315, Causes skin irritation.  
H317, May cause an allergic skin reaction.  
H318, Causes serious eye damage.  
H371, May cause damage to organs (organs, exposure route).

### 2.2 Label elements

**Signal word:** Danger

## SAFETY DATA SHEET

In accordance with UN GHS latest edition

**Product:** Sage Dalmatian Oil 8022-56-8

**Version:** 1

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H304, May be fatal if swallowed and enters airways.  
H315, Causes skin irritation.  
H317, May cause an allergic skin reaction.  
H318, Causes serious eye damage.  
H371, May cause damage to organs (organs, exposure route).

**Precautionary statements:** 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.  
P264, Wash hands and other contacted skin thoroughly after handling.  
P270, Do not eat, drink or smoke when using this product.  
P272, Contaminated work clothing should not be allowed out of the workplace.  
P280, Wear protective gloves/eye protection/face protection.  
P301/310, IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.  
P303/361/353, IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.  
P305/351/338, IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P309/311, IF exposed or if you feel unwell: Call a POISON CENTRE or doctor/physician.  
P310, Immediately call a POISON CENTER or doctor/physician.  
P331, Do not induce vomiting.  
P333/313, If skin irritation or rash occurs: Get medical advice/attention.  
P362, Take off contaminated clothing and wash before reuse.  
P370/378, In case of fire: Use carbon dioxide, dry chemical, foam for extinction.  
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.

**Pictograms:**



**Other hazards:** None

## SAFETY DATA SHEET

In accordance with UN GHS latest edition

**Product:** Sage Dalmatian Oil 8022-56-8

**Version:** 1

### Section 3. Composition / information on ingredients

#### 3.2 Mixtures

**Contains:**

Name	CAS	EC	%	GHS Classification
Thujone	546-80-5	208-912-2	24.00%	Flam. Liq. 4-Acute Tox. 4;H227-H302
1,7,7-Trimethylbicyclo[2.2.1]heptan-2-one	76-22-2	200-945-0	18.50%	Flam. Liq. 4-Flam. Sol. 2-Acute Tox. 4-Acute Tox. 4-STOT SE 2-Aquatic Acute 3;H227-H228-H302-H332-H371-H402
Eucalyptol	470-82-6	207-431-5	9.00%	Flam. Liq. 3-Acute Tox. 5-Skin Irrit. 3-Skin Sens. 1B;H226-H303-H316-H317
beta-Thujone	471-15-8		8.90%	Acute Tox. 4;H302
Camphene	79-92-5	201-234-8	5.90%	Flam. Sol. 1-Acute Tox. 5-Eye Irrit. 2B-Aquatic Acute 1-Aquatic Chronic 1;H228-H313-H320-H410
alpha-Pinene	80-56-8	201-291-9	5.40%	Flam. Liq. 3-Acute Tox. 5-Skin Irrit. 2-Skin Sens. 1B-Asp. Tox 1-Aquatic Acute 1-Aquatic Chronic 1;H226-H303-H304-H315-H317-H410
beta-Caryophyllene	87-44-5	201-746-1	3.80%	Skin Irrit. 3-Asp. Tox 1;H304-H316
beta-Pinene	127-91-3	204-872-5	2.50%	Flam. Liq. 3-Skin Irrit. 2-Skin Sens. 1B-Asp. Tox 1-Aquatic Acute 1-Aquatic Chronic 1;H226-H304-H315-H317-H410
l-Borneol	464-45-9	207-353-1	2.30%	Flam. Sol. 2-Skin Irrit. 3;H228-H316
l-Limonene	5989-54-8	227-815-6	1.90%	Flam. Liq. 3-Skin Irrit. 2-Skin Sens. 1B-Asp. Tox 1-Aquatic Acute 1-Aquatic Chronic 1;H226-H304-H315-H317-H410
4-Carvomenthenol	562-74-3	209-235-5	1.40%	Flam. Liq. 4-Acute Tox. 4-Acute Tox. 5-Skin Irrit. 2-Eye Irrit. 2A-Aquatic Acute 3;H227-H302-H313-H315-H319-H402
Myrcene	123-35-3	204-622-5	1.20%	Flam. Liq. 3-Skin Irrit. 2-Eye Irrit. 2A-Asp. Tox 1;H226-H304-H315-H319
laevo-Bornyl acetate	5655-61-8	227-101-4	1.20%	Skin Irrit. 3-Aquatic Acute 2;H316-H401
p-Cymene	99-87-6	202-796-7	1.10%	Flam. Liq. 3-Acute Tox. 5-Skin Irrit. 3-Asp. Tox 1-Aquatic Acute 2-Aquatic Chronic 2;H226-H303-H304-H316-H411
Terpinolene	586-62-9	209-578-0	0.22%	Flam. Liq. 4-Acute Tox. 5-Skin Irrit. 3-Skin Sens. 1B-Asp. Tox 1-Aquatic Acute 1-Aquatic Chronic 1;H227-H303-H304-H316-H317-H410

**Substances with Community workplace exposure limits, not listed above:**

Not Applicable

### Section 4. First-aid measures

#### 4.1 Description of first aid measures

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.

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

IF exposed or if you feel unwell: Call a POISON CENTRE or doctor/physician.

## SAFETY DATA SHEET

In accordance with UN GHS latest edition

**Product:** Sage Dalmatian Oil 8022-56-8

**Version:** 1

Immediately call a POISON CENTER or doctor/physician.

### 4.2 Most important symptoms and effects, both acute and delayed

May be fatal if swallowed and enters airways.

Causes skin irritation.

May cause an allergic skin reaction.

Causes serious eye damage.

May cause damage to organs (organs, exposure route).

### 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.

# SAFETY DATA SHEET

In accordance with UN GHS latest edition

**Product:** Sage Dalmatian Oil 8022-56-8

**Version:** 1

## Section 7. Handling and storage

### 7.1 Precautions for safe handling:

Keep away from heat, sparks, open flames and hot surfaces. - No smoking. Do not eat, drink or smoke when using this product.

### 7.2 Conditions for safe storage, including any incompatibilities:

Ground/bond container and receiving 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

**pH:** Not determined

**Initial boiling point / range:** Not determined

**Flash point:** 51.7 °C

**Vapour pressure:** Not determined

**Relative density:** Not determined

**Solubility(ies):** Not determined

**9.2 Other information:** None available

## SAFETY DATA SHEET

In accordance with UN GHS latest edition

**Product:** Sage Dalmatian Oil 8022-56-8

**Version:** 1

### 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.

May be fatal if swallowed and enters airways.

Causes skin irritation.

May cause an allergic skin reaction.

Causes serious eye damage.

May cause damage to organs (organs, exposure route).

<b>Assumed Toxicity Value (LD50 or ATE) for Acute Oral Toxicity:</b>	1182
<b>Assumed Toxicity Value (LD50 or ATE) for Acute Dermal Toxicity:</b>	>5000
<b>Assumed Toxicity Value (LC50 or ATE) for Acute Inhalation Toxicity:</b>	Not Available
<b>Inhalation Route:</b>	Not Available

#### Information about hazardous ingredients in the mixture

Ingredient	CAS	EC	LD50/ATE Oral	LD50/ATE Dermal	LC50/ATE Inhalation	LC50 Route
1,7,7-Trimethylbicyclo [2.2.1]heptan-2-one	76-22-2	200-945-0	1500	Not available	1.5	Dust/mist
4-Carvomethenol	562-74-3	209-235-5	1300	2500	Not available	Not available
Thujone	546-80-5	208-912-2	500	Not available	Not available	Not available

## SAFETY DATA SHEET

In accordance with UN GHS latest edition

**Product:** Sage Dalmatian Oil 8022-56-8

**Version:** 1

beta-Thujone	471-15-8		500	Not available	Not available	Not available
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Refer to Sections 2 and 3 for additional information.

### Section 12. Ecological information

**12.1 Toxicity:** Not available

**12.2 Persistence and degradability:** Not available

**12.3 Bioaccumulative potential:** Not available

**12.4 Mobility in soil:** Not available

**12.5 Results of PBT and vPvB assessment:**

This substance does not meet the PBT/vPvB criteria of REACH, annex XIII.

**12.6 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:** UN1266

**14.2 UN Proper Shipping Name:** PERFUMERY PRODUCTS

**14.3 Transport hazard class(es):** 3

**Sub Risk:** -

**14.4. Packing Group:** III

**14.5 Environmental hazards:** This is not an environmentally hazardous substance.

**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

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

None additional

**15.2 Chemical Safety Assessment**

A Chemical Safety Assessment has not been carried out for this product.

## SAFETY DATA SHEET

In accordance with UN GHS latest edition

**Product:** Sage Dalmatian Oil 8022-56-8

**Version:** 1

### Section 16. Other information

**Concentration % Limits:** EH A2=15.48% EH A3=1.53% EH C2=15.60% EH C3=1.56% SCI 2=80.65% SCI 3=7.07% SS 1=11.11% STO-SE 2=54.05% AH 1=45.41%

**Total Fractional Values:** EH A2=6.46 EH A3=65.40 EH C2=6.41 EH C3=64.12 SCI 2=1.24 SCI 3=14.14 SS 1=9.00 STO-SE 2=1.85 AH 1=2.20

### Key to revisions:

Not applicable

### Key to abbreviations:

Abbreviation	Meaning
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
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
Asp. Tox 1	Aspiration Hazard Category 1
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
Flam. Sol. 1	Flammable Solid, Hazard Category 1
Flam. Sol. 2	Flammable Solid, Hazard Category 2
H226	Flammable liquid and vapour.
H227	Combustible liquid.
H228	Flammable solid.
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.
H319	Causes serious eye irritation.
H320	Causes eye irritation.
H332	Harmful if inhaled.
H371	May cause damage to organs (organs, exposure route).
H401	Toxic to aquatic life.



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In accordance with UN GHS latest edition

**Product:** Sage Dalmatian Oil 8022-56-8

**Version:** 1

H402	Harmful to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
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.
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.
P309/311	IF exposed or if you feel unwell: Call a POISON CENTRE 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.
P403/235	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.
STOT SE 2	Specific Target Organ Toxicity (Single Exposure) Category 2
Skin Irrit. 2	Skin Corrosion / Irritation Category 2
Skin Irrit. 3	Skin Corrosion / Irritation Category 3
Skin Sens. 1B	Sensitization - Skin Category 1B

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**Version:** 1

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.