

## SAFETY DATA SHEET

EC Regulation No.1907/2006 (REACH) & 1272/2008 (CLP)

**THIS PRODUCT IS FOR EXTERNAL USE ONLY- DO NOT INGEST**

### 1 IDENTIFICATION OF SUBSTANCE/MIXTURE AND OF THE COMPANY

#### 1.1 Product identifier

**Commercial Name:** FENNEL SWEET OIL  
**INCI Name:** FOENICULUM VULGARE DULCE FRUIT OIL  
**CAS No:** 84455-29-8  
**EINECS No:** 282-892-3  
**TSCA CAS No:** 8006-84-6  
**FEMA:** 2483  
**Chemical Name:**  
**Botanical Name:** *Foeniculum vulgare*  
**Origin:** Spain

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

**Identified use (s):** Essential Oil. Perfume/fragrance material for manufacturing purposes only.

#### 1.3 Details of the supplier of the safety data sheet

**Company Name:** AROMA TRADING LIMITED  
**Contact:** JOHN BLACK  
**Address:** Unit 3 Quatro Park, Tanners Drive, Milton Keynes MK14 5FJ ENGLAND  
**Telephone :** ☎ + 44 (0) 1908 334100  
**Fax:** ☎ + 44 (0) 1908 211376  
**Email :** ✉ johnblack@aromatrading.com  
**Emergency Tel. No.:** ☎ + 44 (0) 1908 334100

### 2. HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture

According to the current IFRA/ IOFI 2023 Labelling Manual and Regulation (EC) No. 1272/2008 (CLP)

Hazard Class	Abbreviation	Hazard Category	Hazard Code	Hazard Statement
Acute Toxic Oral	ATO	4	H302	Harmful if swallowed
Aspiration Hazard	AH	1	H304	May be fatal if swallowed and enters airways
Skin Corrosion/Irritation	SCI	3	H316	Causes mild skin irritation
Skin Sensitisation	SS	1	H317	May cause an allergic skin reaction
Carcinogenicity	CAR	2	H351	Suspected of causing cancer
Mutagenicity	MUT	2	H341	Suspected of causing genetic defect
Environmental Acute	EHA	2	H401	Toxic to aquatic life
Environmental Chronic	EHC	2	H412	Toxic to aquatic life with long lasting effects

#### 2.2 Label elements

**Symbols:**



**Signal word:** DANGER

**UN Global Harmonised System Precautionary Statements (CLP)**

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



	<b>Response Statements</b>
P302/352	IF ON SKIN: Wash with plenty of soap and water.
P301/310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P333/313	If skin irritation or rash occurs: Get medical advice/attention.
P321/363	Protective clothing should be washed before reuse
P331	Do NOT induce vomiting.
P332/313	If skin irritation occurs: Get medical advice/attention
P362	Take off contaminated clothing and wash before reuse.
P353	Rinse skin with water/shower.
P305	IF IN EYES: Rinse cautiously with water for several minutes.
P351/338	Remove contact lenses if present and easy to do. Continue rinsing.
P337/313	If eye irritation persists: get medical advice/attention
P370/378	In case of fire: Use carbon dioxide, foam or dry powder for extinction.
P312	Call a POISON CENTER or doctor/physician if you feel unwell.
P308/313	If exposed or concerned: get medical advise/attention
P391	Collect spillage

	<b>Storage and Disposal Statements</b>
P405	Store locked up.
P501	Dispose of contents and container in accordance with international regulation
P403	Store in a well ventilated place.
P235	Keep cool

### 3. COMPOSITION/INFORMATION ON CONSTITUENTS

**Nature Of Product:** FENNEL SWEET OIL (100% Pure & Natural)

Foeniculum Vulgare Dulce Fruit Oil is the essential oil steam-distilled from the dried fruits of the Sweet Fennel, Foeniculum vulgare var. dulce, Umbelliferae. Syn Sweet fennel

**EINECS No:** 282-892-3  
**FEMA:** 2483

**CAS No:** 84455-29-8  
**FDA:** 182-20

**TSCA CAS No:** 8006-84-6  
**HC (%):** 25

#### 3.2 Constituents

These indicative levels should be taken into account when determining the compliance of the essential oil under its condition of use. (In accordance with Regulation (EC) No 1272/2008 and IFRA/IOFI Labelling Manual 2023 Classified constituents  $\geq 0.1\%$ , no Aspiration hazard & Flammability)

CONSTITUENT	CAS NUMBER	$\leq$ %	RELEVANT GHS
1,7,7-Trimethylbicyclo[2.2.1]heptan-2-one	76-22-2	0.16	Acute Tox. 4 (Inhalation:dust/mist);H332 Acute Tox. 4 (Oral);H302 Aquatic Acute 2;H401 Aquatic Chronic 2;H411 Eye Dam. 1;H318 Skin Irrit. 2;H315 STOT SE 2;H371
3,7-Dimethyl-1,3,6-octatriene	13877-91-3	0.35	Acute Tox. 5 (Oral);H303 Aquatic Acute 1;H400 Aquatic Chronic 2;H411 Skin Irrit. 2;H315
alpha-Phellandrene	99-83-2	1.62	Aquatic Acute 1;H400 Aquatic Chronic 1;H410 Skin Sens. 1;H317
alpha-Pinene	80-56-8	8.59	Acute Tox. 4 (Oral);H302 Aquatic Acute 1;H400 Aquatic Chronic 1;H410 Skin Irrit. 2;H315 Skin Sens. 1B;H317
beta-Phellandrene	555-10-2	0.36	Skin Sens. 1;H317
beta-Pinene	127-91-3	0.80	Aquatic Acute 1;H400 Aquatic Chronic 1;H410 Skin Irrit. 2;H315 Skin Sens. 1B;H317
Camphene	79-92-5	0.1	Aquatic Acute 1;H400 Aquatic Chronic 1;H410 Eye Irrit. 2B;H320
cis-Anethole	25679-28-1	0.25	Acute Tox. 5 (Oral);H303 Aquatic Acute 2;H401 Skin Irrit. 3;H316 Skin Sens. 1B;H317
cis-beta-Ocimene	3338-55-4	0.5	Acute Tox. 5 (Oral);H303 Aquatic Acute 1;H400 Aquatic Chronic 2;H411 Skin Irrit. 2;H315
d-Limonene	5989-27-5	5.43	Aquatic Acute 1;H400 Aquatic Chronic 3;H412 Skin Irrit. 2;H315 Skin Sens. 1B;H317
delta-3-Carene	13466-78-9	0.17	Acute Tox. 4 (Inhalation:dust/mist);H332 Acute Tox. 5 (Oral);H303 Aquatic Acute 2;H401 Aquatic Chronic 2;H411 Skin Irrit. 2;H315 Skin Sens. 1;H317
Estragole (methyl chavicol)	140-67-0	3.76	Acute Tox. 4 (Oral);H302 Aquatic Acute 2;H401 Aquatic Chronic 3;H412 Carc. 1B;H350 Muta. 2;H341 Skin Irrit. 2;H315 Skin Sens. 1B;H317
Eucalyptol	470-82-6	0.36	Acute Tox. 5 (Oral);H303 Aquatic Acute 3;H402 Eye Irrit. 2B;H320 Skin Sens. 1B;H317

### 3.2 Constituents

These indicative levels should be taken into account when determining the compliance of the essential oil under its condition of use. (In accordance with Regulation (EC) No 1272/2008 and IFRA/IOFI Labelling Manual 2023 Classified constituents  $\geq 0.1\%$ , no Aspiration hazard & Flammability)

CONSTITUENT	CAS NUMBER	$\leq$ %	RELEVANT GHS
Fenchone	1195-79-5	5.37	Acute Tox. 5 (Oral);H303 Aquatic Acute 2;H401
Limonene	5989-27-5	9.16	Aquatic Acute 1;H400 Aquatic Chronic 3;H412 Skin Irrit. 2;H315 Skin Sens. 1B;H317
Myrcene	123-35-3	0.64	Aquatic Acute 1;H400 Aquatic Chronic 2;H411 Eye Irrit. 2A;H319 Skin Irrit. 2;H315
p-Cymene	99-87-6	0.53	Acute Tox. 3 (Inhalation:vapour);H331 Acute Tox. 5 (Oral);H303 Aquatic Acute 2;H401 Aquatic Chronic 2;H411 Repr. 2;H361
p-Mentha-1,4-diene	99-85-4	0.15	Acute Tox. 5 (Oral);H303 Aquatic Acute 2;H401 Aquatic Chronic 2;H411 Repr. 2;H361
p-Methoxybenzaldehyde	123-11-5	0.85	Acute Tox. 5 (Oral);H303 Aquatic Acute 3;H402 Aquatic Chronic 3;H412
Terpinolene	586-62-9	0.43	Acute Tox. 5 (Oral);H303 Aquatic Acute 1;H400 Aquatic Chronic 1;H410 Skin Irrit. 3;H316 Skin Sens. 1B;H317
trans beta-Ocimene	3779-61-1	0.1	Acute Tox. 5 (Oral);H303 Aquatic Acute 1;H400 Aquatic Chronic 2;H411 Skin Irrit. 2;H315
trans-Anethole	4180-23-8	74.61	Acute Tox. 5 (Oral);H303 Aquatic Acute 2;H401 Skin Irrit. 3;H316 Skin Sens. 1B;H317

#### 4. FIRST AID MEASURES

##### 4.1 Description of first aid measures

- Ingestion:** Do not induce vomiting, give a glass of water. Seek urgent medical attention and show this information.
- Inhalation:** Remove casualty to fresh air, keep respiratory passages clear and seek urgent medical attention.
- Eye contact:** Irrigate with sterile water or saline for at least 15 minutes. Seek urgent medical attention if irritation persists or tissue damage is apparent.
- Skin contact:** Remove contaminated clothing wash thoroughly with soap and water and rinse. If causes irritation after prolonged contact, if so seek medical advice.

#### 5. FIRE-FIGHTING MEASURES

- 5.1 Extinguisher** Use CO<sub>2</sub>, Foam or Powder extinguishers only.  
DO NOT USE WATER JETS.
- 5.2 Special hazards** Avoid inhalation of smoke or fumes, may produce CO (carbon monoxide) and CO<sub>2</sub> (carbon dioxide).

#### 6. ACCIDENTAL RELEASE MEASURES

- 6.1 Personal Safety Precautions** Avoid contact with skin and eyes. Wear safety gloves, clothing and glasses.  
(Consult sections 7 & 8 for additional information)
- 6.2 Environmental Safety Precautions** Eliminate all sources of ignition.  
Prevent any material entering drains or waterways
- 6.2 Methods and materials for containment and clean up** Absorb spills into an inert absorbent material (e.g. proprietary oil drying granules or sand NOT sawdust or other flammable materials.)  
Wash area clean with water and detergent.  
Transfer all waste to an approved waste disposal container, observing national legislation.

#### 7. HANDLING AND STORAGE

- 7.1 Handling Precautions** Only use in a well ventilated area. Observe good housekeeping procedures when handling the product. Do not eat, drink or smoke.
- 7.2 Storage Precautions** Product is stable at room temperature.  
Keep away from sources of ignition.  
Store in tightly sealed containers, in a cool dry place away from direct sunlight.  
Prevent access by unauthorised personnel.

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

##### 8.1 Control parameters

**Ingredient comments:** No exposure limits known

##### 8.2 Exposure controls

- Respiratory Protection:** Ensure adequate ventilation.  
If ventilation is insufficient use approved respirators.
- Skin/Hand Protection:** Wear personal protective equipment. Use chemical resistant safety gloves.  
Polyvinyl alcohol or nitrile rubber gloves are recommended.
- Eye/Face Protection:** Wear safety glasses/visors. Ensure eye washes are available.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on basic physical and chemical properties

<b>Appearance:</b>	Liquid
<b>Colour:</b>	Light yellow
<b>Odour:</b>	Aromatic anise odour
<b>Odour threshold:</b>	No information available
<b>pH:</b>	No information available
<b>Melting point:</b>	No information available
<b>Initial boiling point and range:</b>	No information available
<b>Flash point:</b>	63°C
<b>Evaporation rate:</b>	No information available
<b>Evaporation factor:</b>	No information available
<b>Flammability (solid, gas):</b>	No information available
<b>Upper flammability or explosive limits:</b>	No information available
<b>Lower flammability or explosive limits:</b>	No information available
<b>Other flammability:</b>	No information available
<b>Vapour pressure:</b>	No information available
<b>Vapour density:</b>	No information available
<b>Relative density@ 20°C:</b>	0.950 - 0.985
<b>Bulk density:</b>	No information available
<b>Solubility(ies):</b>	No information available
<b>Partition coefficient:</b>	No information available
<b>Auto-ignition temperature:</b>	No information available
<b>Decomposition Temperature:</b>	No information available
<b>Viscosity:</b>	No information available
<b>Explosive properties:</b>	No information available
<b>Explosive under influence of a flame:</b>	No information available
<b>Oxidising properties:</b>	No information available

### 9.2. Other information

<b>Refractive index@ 20°C:</b>	1.528 - 1.553
<b>Particle size:</b>	No information available.
<b>Molecular weight:</b>	No information available.

## 10. STABILITY AND REACTIVITY

<b><u>10.1. Reactivity</u></b>	There are no known reactivity hazards associated with this product.
<b><u>10.2. Chemical stability</u></b>	Stable at normal ambient temperatures and when used as recommended.
<b><u>10.3. Possibility of hazardous reactions</u></b>	Will not polymerise.
<b><u>10.4. Conditions to avoid</u></b>	Keep away from any source of ignition.
<b><u>10.5. Incompatible materials</u></b>	Avoid strong oxidisers, acids and alkalis.
<b><u>10.6. Hazardous decomposition products</u></b>	Decomposition may release carbon dioxide, carbon monoxide and other organic compound fumes.



## 11. TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

<b>Oral LD50:</b>	3.8g/Kg	<b>This product is NOT intended for oral use.</b> LD50 dosage levels are only a guideline obtained from historical data, Aroma Trading Ltd does not test its products on animals.
<b>Dermal LD50:</b>	5.0g/Kg	
<b>Skin corrosion/irritation:</b>		Causes mild skin irritation
<b>Serious eye damage/irritation:</b>		No information available
<b>Respiratory sensitisation:</b>		May be fatal if swallowed and enters airways
<b>Skin sensitisation:</b>		May cause an allergic skin reaction
<b>Germ cell mutagenicity:</b>		Suspected of causing genetic defect
<b>Carcinogenicity:</b>		Suspected of causing cancer
<b>104-46-1</b>	<b>Amethole</b> Oral, LD50: 2090 mg/kg (rat), Dermal, LD50: >5000 mg/kg (Rabbit)	
<b>140-67-0</b>	<b>Estragol</b> Oral, LD50: 1230 mg/kg (rat) (Moreno 1972)	
<b>470-82-6</b>	<b>Eucalyptol</b> Oral, LD50: 3849 mg/kg (mouse) (Jiao Xu, 2014)	
<b>79-92-5</b>	<b>Camphene</b> Oral, LD50: 5000 mg/kg (rat) , Dermal, LD50: 2500 mg/kg (Rabbit)	
<b>470-82-6</b>	<b>Eucalyptol</b> AMES: NEGATIVE (in vitro) (Haworth, 1983)	
<b>140-67-0</b>	<b>Estragol</b> Micronoyau: NEGATIVE (mouse) (NTP 2008)	
<b>Reproductive toxicity:</b>		Not determined.
<b>STOT-single exposure:</b>		Not determined.
<b>STOT-repeated exposure:</b>		Not determined.
<b>Aspiration hazard:</b>		May be fatal if swallowed and enters airways

### 11.2 Information on other hazards

**Endocrine disrupting properties :** No information available

## 12. ECOLOGICAL INFORMATION

**12.1 Toxicity** No data available

**12.2 Persistence and degradability** Readily biodegradable.

## 12. ECOLOGICAL INFORMATION

### 12.1 Toxicity

#### Aquatic toxicity:

84455-29-8      **Foeniculum Vulgare Dulce Fruit Oil**

CE50/48h: 38,10 mg/l (daphnia)

5989-27-5      **(R)-p-mentha-1,8-diene**

LD50: 0,71 mg/l (fish) (OECD 203)

99-87-6      **p-cymene**

LD50: 1,63 mg/l (fish) (OECD 203)

### 12.2 Persistence and degradability

Readily biodegradable.

### 12.3 Bioaccumulative potential

Bioaccumulation is unlikely

### 12.4 Mobility in soil

No information available

### 12.5 Results of PBT and vPvB assessment

No information available

### 12.6 Endocrine disrupting properties

No information available

## 13. DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods

Do not pour into drains or waterways.  
Care must be used to prevent the product contaminating rivers, waterways or drains. Should this happen alert the relevant authorities in accordance with statutory procedures

Comply with local and national regulations for waste disposal.  
Empty containers should be washed thoroughly with detergent before being sent for disposal.  
Washings should be disposed of as waste.



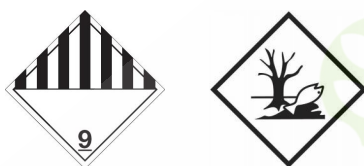
#### 14. TRANSPORT INFORMATION

Transport this product in compliance with and provision of, the ADR/RID for Road and Rail, IMDG for Sea and ICAO/IATA for Air transportation.

**Shipping Name (N.O.S.):** UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S  
**ADR/RID (Road/Rail):** Class 9  
**IMDG/IMO (Sea):** Class 9  
**ICAO/IATA (Air):** Class 9  
**UN Number:** 3082  
**Packing Group:** III  
**Subsidiary Risk:**  
**Packing Instructions:** Miscellaneous dangerous substances and articles, transport in suitable container.

#### Labelling according to ADR/RID, IMDG/IMO and ICAO/IATA:

**UN Shipping Name:** UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID



#### 15. REGULATORY INFORMATION

**Product Classification:** FENNEL SWEET OIL

This product is labelled according to the criteria of Directive CLP 1272/2008/EC.

**Classification:**



**DANGER**  
**UN 3082**

**Hazard Categories:**

<b>ATO 4</b>	Harmful if swallowed
<b>AH 1</b>	May be fatal if swallowed and enters airways
<b>SCI 3</b>	Causes mild skin irritation
<b>SS 1</b>	May cause an allergic skin reaction
<b>CAR 2</b>	Suspected of causing cancer
<b>MUT 2</b>	Suspected of causing genetic defect
<b>EH A2, C2</b>	Toxic to aquatic life Toxic to aquatic life with long lasting effects.

#### 16. ADDITIONAL INFORMATION

#### Legal disclaimer:

The information given on this material health and safety sheet is not a warranty as to the performance or suitability of the product. The information must be regarded only as a description of the health, safety and environmental requirements for that product. The information contained herein is true and accurate to the best of our knowledge and belief, but does not claim to be all inclusive.

Bay House Ingredients® & Soapmakers Store are Divisions Aroma Trading Ltd, Registered No. 02698381, V.A.T. Registration No. 600 516 981 and shall not be held liable for any damage resulting from handling or from contact with the product, since the conditions of use are out of our control. It is the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations.