

AW Nexus Group

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MSDS Greek Sweet Fennel Organic Essential Oil

PRODUCT DESCRIPTION

Botanical name : Foeniculum vulgare
INCI name : Foeniculum Vulgare Dulce Seed Oil
Quality : 100% Pure and Natural
Solubility : Soluble in alcohols and fixed oils; Insoluble in water

DESCRIPTION

Odour : Sweet, fresh, anise-like
Note classification : Top to middle Note
Appearance : Clear, Mobile Liquid
Colour : Colorless

LEGISLATION

CAS-No : 8006-84-6
EINECS : 282-892-3

PHYSICO-CHEMICAL DATA

Specific gravity : 0.930-0.960
Refractive index : 1.500-1.553
Optical rotation at 20°C : 5° to 25°

MANUFACTURING DETAILS

Parts used : Seeds
Extraction Method : Steam Distilled Essential Oil
Cultivation : Certified organic

STABILITY AND STORAGE

Keep in tightly closed container in a cool and dry place from 15°C (59°F) to 16°C (60.8°F). Avoid exposure to light. When stored for more than 24 months, quality should be checked before use.

ORGANOLEPTIC RESULT

Aroma : Conforms to standard
Appearance : Conforms to standard
Color : Conforms to standard

PHYSICAL CONSTANTS AT 20°C

Refractive Index (USP <831>) : 1.521
Specific Gravity (USP <841>) : 0.944
Optical Rotation (USP <781>) : +15.8°

PRODUCT DETAILS

Product name : Sweet Fennel Essential Oil
Product Type : Essential Oil
Label Name : Greek Sweet Fennel Organic Essential Oil
BATCH No : E1001933
Date of Production : July 2025
Date of Expiration : July 2030
Origin : Greece

GC ANALYSIS

Compounds	CAS No	%	Chemical Family
Alpha-Pinene	80-56-8	15.85	Monoterpene
Camphene	79-92-5	0.30	Monoterpene
Beta-Pinene	127-91-3	1.45	Monoterpene
Sabinene	3387-41-5	0.25	Monoterpene

Beta-Myrcene	123-35-3	2.10	Monoterpene
Alpha-Phellandrene	99-83-2	8.15	Monoterpene
Limonene	5989-27-5	2.28	Monoterpene
Beta-Phellandrene	555-10-2	1.15	Monoterpene
Cis-Beta-Ocimene	3338-55-4	0.32	Monoterpene
Gamma-Terpinene	99-85-4	1.15	Monoterpene
Para-Cymene	99-87-6	0.49	Monoterpene
Fenchone	1195-79-5	10.70	Monoterpenic Ketone
Camphor	76-22-2	0.25	Monoterpenic Ketone
Estragole	140-67-0	2.11	Phenylpropanoid
Cis-Anethole	25679-28-1	0.15	Phenylpropanoid
Trans-Anethole	4180-23-8	51.90	Phenylpropanoid
Para-Anisaldehyde	123-11-5	0.05	Aromatic Aldehyde

Analysis Method: Gas chromatography (GC/FID) + GC/MS-SCAN. Components identified by GC-MS processed by "Total Ion Chromatogram" mode, quantified by GC-FID using relative area percentage.

MSDS Greek Sweet Fennel Organic Essential Oil

1.1 Product identifiers

Product name	Sweet Fennel Oil
Brand	Vessel Essential Oils
CAS-No.	8006-84-6

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

Identified uses	Laboratory chemicals, Manufacture of substances
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1.3 Details of the supplier of the safety data sheet

Manufacturer	Vessel Essential Oils, Farmakeika Neo Risio, Greece
Importer / Distributor (EU)	AW Nexus Group, ul. Olimpijska 2, 81-538 Gdynia NIP: 5881771302 Tel 786 686 068 https://aromapremium.eu/ kontakt@aromapremium.eu

1.4 Emergency telephone number

W nagłych przypadkach związanych z narażeniem na produkt:

Óśrodki Informacji Toksykologicznej (całodobowe):

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Flammable liquids (Category 4), H227

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram	none
Signal word	Warning
H227	Combustible liquid.
P210	Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
P370 + P378	In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.
P403 + P235	Store in a well-ventilated place. Keep cool.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNO) or not covered by GHS - none

3.1 Substances

CAS-No. : 8006-84-6

Hazardous components

Component	Classification	Concentration
Oils, sweet fennel	Flam. Liq. 4; H227	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

4.1 Description of first aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

In case of eye contact

Flush eyes with water as a precaution.

If swallowed

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.

4.3 Indication of any immediate medical attention and special treatment needed

No data available

5.1 Extinguishing media

Suitable extinguishing media

For small (incipient) fires, use media such as "alcohol" foam, dry chemical, or carbon dioxide. For large fires, apply water from as far as possible. Use very large quantities (flooding) of water applied as a mist or spray; solid streams of water may be ineffective. Cool all affected containers with flooding quantities of water.

5.2 Special hazards arising from the substance or mixture

No data available

5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information

Use water spray to cool unopened containers.

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas. For personal protection see section 8.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up

Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13). Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For disposal see section 13.

7.1 Precautions for safe handling

Avoid inhalation of vapour or mist. Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge. For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

8.1 Control parameters

Components with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis
Oils, sweet fennel	8006-84-6	TWA	10.000000 mg/m ³	USA. NIOSH Recommended Exposure Limits
		TWA	5.000000 mg/m ³	USA. NIOSH Recommended Exposure Limits

8.2 Exposure controls

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection

Safety glasses with side-shields conforming to EN166. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Body Protection

Impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multipurpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator.

Control of environmental exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

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9.1 Information on basic physical and chemical properties

a) Appearance	Form: clear, liquid
b) Odour	No data available
c) Odour Threshold	No data available
d) pH	No data available
e) Melting point/freezing point	No data available
f) Initial boiling point and boiling range	212 °C (413.6 °F) - lit.
g) Flash point	68 °C (154.4 °F) - closed cup
h) Evaporation rate	No data available
i) Flammability (solid, gas)	No data available
j) Upper/lower flammability or explosive limits	No data available
k) Vapour pressure	No data available
l) Vapour density	No data available
m) Relative density	0.943 g/cm ³ at 25 °C (77 °F)
n) Water solubility	No data available
o) Partition coefficient: n-octanol/water	No data available
p) Auto-ignition temperature	No data available
q) Decomposition temperature	No data available
r) Viscosity	No data available
s) Explosive properties	No data available
t) Oxidizing properties	No data available

9.2 Other safety information

No data available

10.1 Reactivity

No data available

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

No data available

10.4 Conditions to avoid

Heat, flames and sparks.

10.5 Incompatible materials

No data available

10.6 Hazardous decomposition products

In the event of fire: see section 5.

11.1 Information on toxicological effects

Acute toxicity

No data available

Inhalation: In high concentrations, vapors may irritate throat and respiratory system and cause coughing.

Skin corrosion/irritation

No specific health warnings noted.

Serious eye damage/eye irritation

No data available

Respiratory or skin sensitisation

No data available

Germ cell mutagenicity

No data available

Carcinogenicity

IARC:	No component of this product present at levels $\geq 0.1\%$ is identified as probable, possible or confirmed human carcinogen by IARC.
ACGIH:	No component of this product present at levels $\geq 0.1\%$ is identified as a carcinogen or potential carcinogen by ACGIH.

NTP:	No component of this product present at levels $\geq 0.1\%$ is identified as a known or anticipated carcinogen by NTP.
OSHA:	No component of this product present at levels $\geq 0.1\%$ is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity

No data available

Specific target organ toxicity - single exposure

No data available

Specific target organ toxicity - repeated exposure

No data available

Aspiration hazard

No data available

Additional Information

Dermatitis. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

12.1 Ecotoxicity

No data available

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.

12.6 Other adverse effects

No data available

13.1 Waste treatment methods

Product

This combustible material may be burned in a chemical incinerator equipped with an afterburner and scrubber. Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging

Dispose of as unused product.

UN Number	N/A
UN Proper shipping name	N/A
Road (U.S. DOT)	Not dangerous goods
Air (IATA)	Not dangerous goods
Sea (IMDG)	Not dangerous goods
Packing group	N/A
Proper shipping name	Not regulated
Poison Inhalation Hazard	No
Class	NONE

SARA 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards

Fire Hazard

Massachusetts Right To Know Components

No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know Components

Oils, sweet fennel — CAS-No. 8006-84-6 — Revision Date 2018-08-03

New Jersey Right To Know Components

Oils, sweet fennel — CAS-No. 8006-84-6 — Revision Date 2018-08-03

California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

Full text of H-Statements referred to under sections 2 and 3.

Flam. Liq.	Flammable liquids
H227	Combustible liquid.

HMIS Rating		NFPA Rating	
Health hazard:	1	Health hazard:	0
Chronic Health Hazard:			
Flammability:	2	Fire Hazard:	2
Physical Hazard:	0		

Further information

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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Vessel Essential Oils and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product.

12/08/2023