

AMPHORA AROMATICS
LIMITED

Issue date: 25/06/2025

Version: 3 (25/06/2025)

SAFETY DATA SHEET

In accordance with REACH Regulation EC No.1907/2006

Product: COSMOS Organic Fennel Essential Oil 2921k

Version: 3

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

1.1 Product Identifier

Product identifier: Foeniculum vulgare dulce fruit oil; CAS: 8006-84-6

Other identifiers: Pure Organic Fennel Essential Oil

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

Product uses: Fragrances, Cosmetic Product

1.3 Details of the supplier of the safety data sheet

Company name: Amphora Aromatics Limited

Company address: Airfield House,

Western Drive,

Bristol, BS14 0AF

Contact: Regulatory Affairs

E-Mail address: info@amphora-aromatics.com

Company phone: +44 (0) 117 904 7212

1.4 Emergency telephone number

Emergency phone: +44 (0) 117 904 7212

Section 2. Hazards identification

2.1 Classification of the substance or mixture

Classification under Regulation (EC) No 1272/2008

Class and category of Acute Toxicity - Oral Category 4 danger:

Sensitization - Skin Category 1

Sensitization - Skin Category 1

Carcinogenicity Category 2

Germ Cell Mutagenicity Category 2

Aspiration Hazard Category 1

Hazardous to the Aquatic Environment - Long-term Hazard Category 2

H302, Harmful if swallowed.

H304, May be fatal if swallowed and enters airways.

H317, May cause an allergic skin reaction.

H341, Suspected of causing genetic defects (exposure route).

H351, Suspected of causing cancer (exposure route).

H411, Toxic to aquatic life with long lasting effects.



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2.2 Label elements

Classification under Regulation (EC) No 1272/2008

Signal word: Danger

Hazard statements: H302, Harmful if swallowed.

H304, May be fatal if swallowed and enters airways.

H317, May cause an allergic skin reaction.

H341, Suspected of causing genetic defects (exposure route).

H351, Suspected of causing cancer (exposure route). H411, Toxic to aquatic life with long lasting effects.

M factor: None

Supplemental Information:

None

Precautionary statements:

P201, Obtain special instructions before use.

P202, Do not handle until all safety precautions have been read and understood.

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.

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.

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

P308/313, IF exposed or concerned: Get medical advice/attention.

P330, Rinse mouth.

P331, Do not induce vomiting.

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

P363, Wash contaminated clothing before reuse.

P391, Collect spillage. P405, Store locked up.

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

regulations.







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2.3 Other hazards

Other hazards: Hydrocarbon Concentration %: 26.4000%

Section 3. Composition / information on ingredients

3.1 Substances

Product identifier: Foeniculum vulgare dulce fruit oil; CAS: 8006-84-6

Contains:

Name	CAS	EC	REACH Registration No.	%	Classification for (CLP) 1272/2008	Specific Conc. Limits, M-factors and ATEs
trans-Anethole	4180-23-8	224-052-0		80.00%	Skin Sens. 1B;H317,-	oral: ATE = 3000 mg/kg bw
alpha-Pinene	80-56-8	201-291-9		8.00%	Skin Irrit. 2-Skin Sens. 1B-Asp. Tox 1;H304- H315-H317,-	M = 1-M = 1-oral: ATE = 3500 mg/kg bw
d-Limonene	5989-27-5, 138-86-3, 7705-14-8, 5989-54-8	227-813-5		8.00%	Flam. Liq. 3-Skin Irrit. 2-Skin Sens. 1B-Asp. Tox 1-Aquatic Acute 1- Aquatic Chronic 1; H226-H304-H315- H317-H410,-	M = 1
Estragole	140-67-0	205-427-8		6.00%	Acute Tox. 4-Skin Sens. 1B-Muta. 2-Carc. 2;H302-H317-H341- H351,-	oral: ATE = 1230 mg/kg bw
alpha-Phellandrene	99-83-2	202-792-5		5.00%	Flam. Liq. 3-Asp. Tox 1;H226-H304,-	
Myrcene	123-35-3	204-622-5		1.90%	Flam. Liq. 3-Skin Irrit. 2-Eye Irrit. 2-Asp. Tox 1;H226-H304-H315- H319,-	
p-Mentha-1,4-diene	99-85-4	202-794-6		1.50%	Flam. Liq. 3-Asp. Tox 1;H226-H304,-	oral: ATE = 3850 mg/kg bw
beta-Pinene	127-91-3	204-872-5		1.00%	Flam. Liq. 3-Skin Irrit. 2-Skin Sens. 1B-Asp. Tox 1-Aquatic Acute 1- Aquatic Chronic 1; H226-H304-H315- H317-H410,-	
p-Cymene	99-87-6	202-796-7		1.00%	Flam. Liq. 3-Asp. Tox 1-Aquatic Chronic 2; H226-H304-H411,-	oral: ATE = 4750 mg/kg bw
Terpinolene	586-62-9	209-578-0		0.50%	Skin Sens. 1B-Asp. Tox 1-Aquatic Acute 1- Aquatic Chronic 1; H304-H317-H410,-	M = 1-oral: ATE = 3850 mg/kg bw

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: Flush immediately with water for at least 15 minutes. Contact physician if symptoms persist.

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



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

4.2 Most important symptoms and effects, both acute and delayed

Harmful if swallowed.

May be fatal if swallowed and enters airways.

May cause an allergic skin reaction.

Suspected of causing genetic defects (exposure route).

Suspected of causing cancer (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.





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Section 7. Handling and storage

7.1 Precautions for safe handling:

Do not eat, drink or smoke when using this product.

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, Cosmetic Product: 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

Physical State/Colour: Mobile liquid. Yellow to greenish yellow

Odour: Characteristic peppery spicy

Odour threshold:

Melting point / freezing point:

Not determined

Not determined

Not determined

range:

Flammability: Not determined Lower and upper explosion limit: Not determined

Flash point: 65 °C

Auto-ignition temperature: Not determined



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Decomposition temperature:

pH:

Not determined

Kinematic viscosity:

Not determined

Solubility:

Not determined

Not determined

Not determined

Not determined

value):

Vapour pressure:Not determinedDensity and/or relative density:0.9500 - 0.9810Relative vapour density:Not determinedParticle characteristics:Not determined

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 hazard classes as defined in Regulation (EC) No 1272/2008

Acute Toxicity: Acute Toxicity - Oral Category 4

Acute Toxicity Oral 2904

Acute Toxicity Dermal Not Applicable
Acute Toxicity Inhalation Not Available

Skin corrosion/irritation:Based on available data the classification criteria are not met. **Serious eye damage/irritation:**Based on available data the classification criteria are not met.

Respiratory or skin sensitisation: Sensitization - Skin Category 1

Germ cell mutagenicity: Germ Cell Mutagenicity Category 2

Carcinogenicity: Carcinogenicity Category 2





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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: Aspiration Hazard Category 1

Information about hazardous ingredients in the mixture

Ingredient	CAS	EC	LD50/ATE Oral (mg/kg)	LD50/ATE Dermal (mg/kg)	LC50/ATE Inhalation	LC50 Route
Estragole	140-67-0	205-427-8	1230	Not available	Not available	Not available

Refer to Sections 2 and 3 for additional information.

11.2 Information on other hazards

Not Applicable

Section 12. Ecological information

12.1 Toxicity:

Toxic to aquatic life with long lasting effects.

12.2 Persistence and degradability:Not available12.3 Bioaccumulative potential:Not available12.4 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 Endocrine disrupting properties: Not Applicable **12.7 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	UN3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (d- Limonene, beta-Pinene)	9	-	III



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IMDG	UN3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (d- Limonene, beta-Pinene) MARINE POLLUTANT	9	-	III
ADR,RID,ADN	UN3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (d- Limonene, beta-Pinene)	9	-	III
ICAO TI	UN3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (d- Limonene, beta-Pinene)	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

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.

Section 16. Other information

Concentration % Limits: SCI 2=52.91% SS 1=1.25% MUT 2=16.67% CAR 2=16.67% AH 1=37.88%

EH C2=26.04% EH C3=2.60%

Total Fractional Values: SCI 2=1.89 SS 1=80.00 MUT 2=6.00 CAR 2=6.00 AH 1=2.64 EH C2=3.84

EH C3=38.40

Key to revisions:

Classification under Regulation (EC) No 1272/2008

Key to abbreviations:

Abbreviation	Meaning	
Acute Tox. 4	Acute Toxicity - Oral Category 4	
Aquatic Acute 1	Hazardous to the Aquatic Environment - Acute Hazard Category 1	
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	
Carc. 2	Carcinogenicity Category 2	
Eye Irrit. 2	Eye Damage / Irritation Category 2	
Flam. Liq. 3	Flammable Liquid, Hazard Category 3	
H226	Flammable liquid and vapour.	





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Harmful if swallowed. May be fatal if swallowed and enters airways.
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Causes skin irritation.
May cause an allergic skin reaction.
Causes serious eye irritation.
Suspected of causing genetic defects (exposure route).
Suspected of causing cancer (exposure route).
Very toxic to aquatic life with long lasting effects.
Toxic to aquatic life with long lasting effects.
Germ Cell Mutagenicity Category 2
Do not handle until all safety precautions have been read and understood.
Keep away from heat, sparks, open flames and hot surfaces No smoking.
Keep container tightly closed.
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.
Avoid breathing vapour or dust.
Wash hands and other contacted skin thoroughly after handling.
Do not eat, drink or smoke when using this product.
Contaminated work clothing should not be allowed out of the workplace.
Avoid release to the environment.
Wear protective gloves/eye protection/face protection.
IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
IF SWALLOWED: call a POISON CENTER or doctor/physician if you feel unwell.
IF ON SKIN: Wash with plenty of soap and water.
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 concerned: Get medical advice/attention.
Rinse mouth.
Do not induce vomiting.
If skin irritation occurs: Get medical advice/attention.
If skin irritation or rash occurs: Get medical advice/attention.
If eye irritation persists: Get medical advice/attention.
Take off contaminated clothing and wash before reuse.
Wash contaminated clothing before reuse.
In case of fire: Use carbon dioxide, dry chemical, foam for extinction.
Collect spillage.
Store in a well-ventilated place. Keep cool.
Store locked up.
Dispose of contents/container to approved disposal site, in accordance with local regulations.





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Skin Irrit. 2	Skin Corrosion / Irritation Category 2
Skin Sens. 1B	Sensitization - Skin Category 1B

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