



Version: 6 (10/07/2024)

# **SAFETY DATA SHEET**

In accordance with REACH Regulation EC No.1907/2006

**Product:** Fennel oil, sweet FPD-2016A-LM3817

Version: 6

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

1.1 Product Identifier

**Product identifier:** Fennel oil, sweet; CAS: 84455-29-8

Other identifiers: Fennel oil, sweet

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: Norfolk Essential Oils

Company address: Pates Farm

Wisbech Road

Tipsend Welney Wisbech PE14 9SQ

Contact: Regulatory Affairs

E-Mail address: info@neoils.com

Company phone: 01354 638065

1.4 Emergency telephone number

**Emergency phone:** 01354 638065

## Section 2. Hazards identification

#### 2.1 Classification of the substance or mixture

Classification under Regulation (EC) No 1272/2008

Class and category of Sensitization - Skin Category 1

danger: Germ Cell Mutagenicity Category 2

Carcinogenicity Category 2

Hazardous to the Aquatic Environment - Long-term Hazard Category 2 Hazardous to the Aquatic Environment - Long-term Hazard Category 3

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.

H412, Harmful to aquatic life with long lasting effects.





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2.2 Label elements

Classification under Regulation (EC) No 1272/2008

Signal word: Warning

H317, May cause an allergic skin reaction. **Hazard statements:** 

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

H351, Suspected of causing cancer (exposure route). H411, Toxic to aquatic life with long lasting effects. H412, Harmful to aquatic life with long lasting effects.

M factor: None

Supplemental Information:

None

**Precautionary** statements:

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

P261, Avoid breathing vapour or dust.

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.

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

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.

Pictograms:



#### 2.3 Other hazards

Other hazards: Hydrocarbon Concentration %: 4.2000%





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Section 3. Composition / information on ingredients

3.1 Substances

**Product identifier:** Fennel oil, sweet; CAS: 84455-29-8

Contains:

Name	CAS	EC	REACH Registration No.	%	Classification for (CLP) 1272/2008	Specific Conc. Limits, M-factors and ATEs
trans-Anethole	4180-2 <mark>3-8</mark>	224-052-0		<mark>50-100%</mark>	ISkin Sens 18 H31/ -	oral: ATE = 3000 mg/kg bw
Estragole	140-67-0	205-427-8		1-<5%	Acute Tox. 4-Skin Sens. 1B-Muta. 2-Carc. 2;H302-H317-H341- H351,-	oral: ATE = 1230 mg/kg bw
p-Cymene	99-87-6	202-796-7		1-<5%	Flam. Liq. 3-Asp. Tox 1-Aquatic Chronic 2; H226-H304-H411,-	oral: ATE = 4750 mg/kg bw
alpha-Pinene	80-56-8	201-291-9		0.1-<1%	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-M = 1-oral: ATE = 3500 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. **Ingestion:** Rinse mouth with water and obtain medical attention.

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

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.





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### 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.

### 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





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# 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:

Odour:

Not determined

Odour threshold:

Not determined

range:

Flammability: Not determined

Lower and upper explosion limit: Not determined

Flash point: 62 °C

Auto-ignition temperature:

Decomposition temperature:

PH:

Not determined

Not determined

Kinematic viscosity:

Not determined

Not determined

Not determined

Partition coefficient: n-octanol/water (log

value):

Vapour pressure:Not determinedDensity and/or relative density:Not determinedRelative vapour density:Not determinedParticle characteristics:Not determined

**9.2 Other information:** None available

## Section 10. Stability and reactivity

Not determined

#### 10.1 Reactivity:

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





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## 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:**Based on available data the classification criteria are not met.

Acute Toxicity Oral 3375 mg/kg
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

Reproductive toxicity:

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.

Based on available data the classification criteria are not met.

Based on available data the classification criteria are not met.

Based on available data the classification criteria are not met.

# 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





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Section 12. Ecological information

#### 12.1 Toxicity:

Toxic to aquatic life with long lasting effects.

Harmful 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):	Sub Risk:	14.4 Packing Group:
UN Model Regulations	UN3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (alpha- Pinene, p-Cymene)	9	-	III
IMDG	UN3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (alpha- Pinene, p-Cymene) MARINE POLLUTANT	9	-	
ADR,RID,ADN	UN3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (alpha- Pinene, p-Cymene)	9	-	III
ICAO TI	UN3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (alpha-Pinene, p-Cymene)	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: Nor

None additional

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

Not applicable



Norfolk Essential Oils

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# Section 15. Regulatory information

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

Water Hazard Class (WGK):

15.2 Chemical Safety Assessment

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

Section 16. Other information

Concentration % Limits: SS 1=1.25% MUT 2=33.33% CAR 2=33.33% EH C3=41.67%

Total Fractional Values: SS 1=80.00 MUT 2=3.00 CAR 2=3.00 EH C3=2.40

Key to revisions:

SECTION 3: Composition/information on ingredients

Key to abbreviations:

Abbreviation	Meaning 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		
Flam. Liq. 3	Flammable Liquid, Hazard Category 3		
H226	Flammable liquid and vapour.		
H302	Harmful if swallowed.		
H304	May be fatal if swallowed and enters airways.		
H315	Causes skin irritation.		
H317	May cause an allergic skin reaction.		
H341	Suspected of causing genetic defects (exposure route).		
H351	Suspected of causing cancer (exposure route).		
H410	Very toxic to aquatic life with long lasting effects.		
H411	Toxic to aquatic life with long lasting effects.		
Muta. 2	Germ Cell Mutagenicity Category 2		
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.		
P261	Avoid breathing vapour or dust.		





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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.		
/ear 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 exposed or concerned: Get medical advice/attention.		
Rinse mouth.		
Do not induce vomiting.		
If skin irritation or rash occurs: 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.		
Skin Corrosion / Irritation Category 2		
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.

