

# SAFETY DATA SHEET

In accordance with REACH Regulation EC No.1907/2006

Product: Fennel oil, sweet FPD-2015A-2015

Version: 2

# 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: Flavours, Fragrances

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

Company name: Company address:	Perfumer's Apprentice 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

## Classification under Regulation (EC) No 1272/2008

Class and category of danger:	Sensitization - Skin Category 1 Germ Cell Mutagenicity Category 2
	Carcinogenicity Category 2
	Hazardous to the Aquatic Environment - Long-term Hazard Category 2 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.
2.2 Label elements	
	Classification under Regulation (EC) No 1272/2008
Signal word:	Warning
Hazard statements:	H317, May cause an allergic skin reaction.
	H341, Suspected of causing genetic defects (exposure route).



Page 2 (8) Issue date: 10/29/2019 Version: 2 (10/29/2019)

# SAFETY DATA SHEET

In accordance with REACH Regulation EC No.1907/2006

Product:	Fennel	oil, sweet FPD-2015A-2015
Version:	2	
		H351, Suspected of causing cancer (exposure route). H411, Toxic to aquatic life with long lasting effects.
M factor:		None
Supplementa Information:	I	None
Precautionary statements:	/	<ul> <li>P202, Do not handle until all safety precautions have been read and understood.</li> <li>P261, Avoid breathing vapour or dust.</li> <li>P272, Contaminated work clothing should not be allowed out of the workplace.</li> <li>P273, Avoid release to the environment.</li> <li>P280, Wear protective gloves/eye protection/face protection.</li> <li>P302/352, IF ON SKIN: Wash with plenty of soap and water.</li> <li>P308/313, IF exposed or concerned: Get medical advice/attention.</li> <li>P333/313, If skin irritation or rash occurs: Get medical advice/attention.</li> <li>P363, Wash contaminated clothing before reuse.</li> <li>P391, Collect spillage.</li> <li>P405, Store locked up.</li> <li>P501, Dispose of contents/container to approved disposal site, in accordance with local regulations.</li> </ul>
Pictograms:		
Other hazards	5:	None

# 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
trans-Anethole	4180-23-8	224-052-0		80.00%	Skin Sens. 1B;H317,-
Estragole	140-67-0	205-427-8		3.00%	Acute Tox. 4-Skin Sens. 1B-Muta. 2-Carc. 2;H302-H317-H341- H351,-



Page 3 (8) Issue date: 10/29/2019 Version: 2 (10/29/2019)

# SAFETY DATA SHEET

In accordance with REACH Regulation EC No.1907/2006

Product: Fennel oil, sweet FPD-2015A-2015

### Version: 2

d-Limonene	5989-27-5	227-813-5	2.00%	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,-
alpha-Pinene	80-56-8	201-291-9	0.50%	Flam. Liq. 3-Skin Irrit. 2-Skin Sens. 1B-Asp. Tox 1-Aquatic Acute 1- Aquatic Chronic 1; H226-H304-H315- H317-H410,-

## Section 4. First-aid measures

## 4.1 Description of first aid measures

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

IF exposed or concerned: Get medical advice/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.

### 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.



Page 4 (8) Issue date: 10/29/2019 Version: 2 (10/29/2019)

# SAFETY DATA SHEET

In accordance with REACH Regulation EC No.1907/2006

Product: Fennel oil, sweet FPD-2015A-2015

Version: 2

## 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):

Flavours, 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.



Page 5 (8) Issue date: 10/29/2019 Version: 2 (10/29/2019)

# SAFETY DATA SHEET

In accordance with REACH Regulation EC No.1907/2006

Product: Fennel oil, sweet FPD-2015A-2015

Version: 2

## Section 9. Physical and chemical properties

## 9.1 Information on basic physical and chemical properties

Appearance:	Not determined
Odour:	Not determined
Odour threshold:	Not determined
pH:	Not determined
Melting point / freezing point:	Not determined
Initial boiling point / range:	Not determined
Flash point:	62 °C
Evaporation rate:	Not determined
Flammability (solid, gas):	Not determined
Upper/lower flammability or explosive limits:	Product does not present an explosion hazard
Vapour pressure:	Not determined
Vapour density:	Not determined
Relative density:	Not determined
Solubility(ies):	Not determined
Partition coefficient: n-octanol/water:	Not determined
Auto-ignition temperature:	Not determined
Decomposition temperature:	Not determined
Viscosity:	Not determined
Explosive properties:	Not expected
Oxidising properties:	Not expected

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.



Page 6 (8) Issue date: 10/29/2019 Version: 2 (10/29/2019)

# SAFETY DATA SHEET

In accordance with REACH Regulation EC No.1907/2006

Product: Fennel oil, sweet FPD-2015A-2015

Version: 2

## 10.6 Hazardous decomposition products:

Not expected.

# Section 11. Toxicological information

## 11.1 Information on toxicological effects

Acute Toxicity:	Based on available data the classification criteria are not met.
Acute Toxicity Oral	3375
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:	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:	Based on available data the classification criteria are not met.

# Information about hazardous ingredients in the mixture

Ingredient	CAS	EC	LD50/ATE Oral	LD50/ATE Dermal	LC50/ATE Inhalation	LC50 Route
Estragole	140-67-0	205-427-8	1230	Not available	INOT AVAIIADIE	Not available

Refer to Sections 2 and 3 for additional information.

# 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 Other adverse effects: Not available

### Section 13. Disposal considerations

# 13.1 Waste treatment methods:



Page 7 (8) Issue date: 10/29/2019 Version: 2 (10/29/2019)

# SAFETY DATA SHEET

In accordance with REACH Regulation EC No.1907/2006

Product: Fennel oil, sweet FPD-2015A-2015

Version: 2

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:	UN3082	
14.2 UN Proper Shipping Name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (d- Limonene, alpha-Pinene)	
14.3 Transport hazard class(es):	9	
Sub Risk:	-	
14.4. Packing Group:	III	
14.5 Environmental hazards:	This is 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** RIFM ID Number: 451-H2.12

### **15.2 Chemical Safety Assessment**

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

## Section 16. Other information

Concentration % Limits:	EH C2=96.15% EH C3=9.62% SS 1=1.25% MUT 2=33.33% CAR 2=33. 33%
Total Fractional Values:	EH C2=1.04 EH C3=10.40 SS 1=80.00 MUT 2=3.00 CAR 2=3.00

Key to revisions:

Classification under Regulation (EC) No 1272/2008 SECTION 3: Composition/information on ingredients

# 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
Flam. Liq. 3	Flammable Liquid, Hazard Category 3
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.



Page 8 (8) Issue date: 10/29/2019 Version: 2 (10/29/2019)

# SAFETY DATA SHEET

In accordance with REACH Regulation EC No.1907/2006

Product: Fennel oil, sweet FPD-2015A-2015

#### Version:

2

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