

# **Certificate of Analysis**

PRODUCT DETAILS		
Product Name	FENNEL OIL SWEET	
Product Code	OEFENNSWEE	
INCI Name	Foeniculum vulgare Mill. Var. dulce	
Batch Number	4350007	
Best Before End	February 2022	
Manufacturing Process	Obtained by steam distillation from the fruits of Foeniculum vulgare Mill. Var. dulce (Umbelliferae).	
Identification	CAS No: 84455-29-8	
	Alternative Cas: 8006-84-6	
	EINECS No: 282-892-3	
	FEMA: 2483	

PHYSICAL AND CHEMICAL CHARACTER	RISTIC	
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PHYSICAL AND CHEIVIICAL CHARACTERISTIC			
	SPECIFICATION RANGE	RESULTS	
Appearance	Liquid	Conforms	
Colour	Colourless to light yellow	Conforms	
Odour	Characteristic	Conforms	
Relative Density @ 20°c	0.950 - 0.985	0.965	
Refractive Index @ 20°c	1.520 - 1.560	1.541	
Flash Point	>65°c	Conforms	
Optical Rotation	+4.0 to +25.0	14.8	
STORAGE AND SHELF LIF	E		
Storage	Store in tightly closed container with	Store in tightly closed container with minimum headspace in a cool, dark and dr	
	place.		

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## SAFETY DATA SHEET **FENNEL SWEET**

#### SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

**FENNEL SWEET** Product name

**ORFENSWEE** Product number

Synonyms; trade names

Foeniculum vulgare oil

CAS number

8006-84-6

**Alternative Cas Number** 

**FEMA No:** 2482

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

Identified uses Industrial, only for professional use

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

MADAR Corporation Limited Supplier

19-20 Sandleheath Industrial Estate

Fordingbridge Hampshire SP6 1PA

Telephone 01425 655555

**Approved Sellers** Mystic Moments, New Directions, World of Moulds

## 1.4. Emergency telephone number

#### **SECTION 2: Hazards identification**

#### 2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical hazards Not Classified

Health hazards Skin Sens. 1 - H317 Muta. 2 - H341 Carc. 2 - H351 Asp. Tox. 1 - H304

**Environmental hazards** Aquatic Chronic 2 - H411

Human health Corrosive to skin and eyes. May be fatal if swallowed and enters airways. The liquid may be

irritating to skin. Suspected of causing cancer. Suspected of causing genetic defects.

**Environmental** The product contains a substance which is toxic to aquatic organisms and which may cause

long-term adverse effects in the aquatic environment.

#### 2.2. Label elements

#### **FENNEL SWEET**

#### **Pictogram**







#### Signal word

Danger

Hazard statements

H304 May be fatal if swallowed and enters airways.

H317 May cause an allergic skin reaction. H341 Suspected of causing genetic defects.

H351 Suspected of causing cancer.

H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

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

P273 Avoid release to the environment.

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. P501 Dispose of contents/ container in accordance with national regulations. P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P310 Immediately call a POISON CENTER/ doctor.

**Contains** 

trans-anethole, (R)-p-mentha-1,8-diene, Estragole, Alpha Pinene

Supplementary precautionary

P201 Obtain special instructions before use.

statements

P261 Avoid breathing vapour/ spray.

P272 Contaminated work clothing should not be allowed out of the workplace. P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.

P302+P352 IF ON SKIN: Wash with plenty of water.

P308+P313 IF exposed or concerned: Get medical advice/ attention.

P321 Specific treatment (see medical advice on this label).

P331 Do NOT induce vomiting.

P333+P313 If skin irritation or rash occurs: Get medical advice/ attention. P362+P364 Take off contaminated clothing and wash it before reuse.

P391 Collect spillage. P405 Store locked up.

#### 2.3. Other hazards

#### SECTION 3: Composition/information on ingredients

### 3.1. Substances

#### Molecular Weight

#### 3.2. Mixtures

trans-anethole 60-100%

CAS number: 4180-23-8 EC number: 224-052-0

Classification

Skin Sens. 1 - H317

#### **FENNEL SWEET**

(R)-p-mentha-1,8-diene 3-8%

Classification

Flam. Liq. 3 - H226 Skin Irrit. 2 - H315 Skin Sens. 1 - H317 Asp. Tox. 1 - H304 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410

Estragole 1-5%

CAS number: 140-67-0 EC number: 205-427-8

Classification

Acute Tox. 4 - H302 Skin Sens. 1 - H317 Muta. 2 - H341 Carc. 2 - H351

p-Cymene 1-5%

CAS number: 99-87-6 EC number: 202-796-7

Classification

Flam. Liq. 3 - H226 Asp. Tox. 1 - H304 Aquatic Chronic 2 - H411

Alpha Pinene 1-7%

CAS number: 80-56-8 EC number: 201-291-9

Classification

Flam. Liq. 3 - H226 Skin Irrit. 2 - H315 Skin Sens. 1 - H317 Asp. Tox. 1 - H304

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

#### **SECTION 4: First aid measures**

## 4.1. Description of first aid measures

**Inhalation** Move affected person to fresh air at once. Get medical attention if any discomfort continues.

**Ingestion** Rinse mouth thoroughly with water. Do not induce vomiting. Get medical attention

immediately.

**Skin contact** Remove contaminated clothing immediately and wash skin with soap and water.

#### **FENNEL SWEET**

Eye contact Rinse eyes thoroughly with lukewarm water for at least 15 minutes. Do not allow the person

affected to rub or close their eyes. If the injured person uses contact lenses, these should be removed unless they are stuck to the eyes, as this could cause further damage. In all cases, after cleaning, a doctor should be consulted as quickly as possible with the SDS of the

product.

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

#### 4.3. Indication of any immediate medical attention and special treatment needed

Notes for the doctor Treat symptomatically.

#### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

Suitable extinguishing media Use as appropriate carbon dixoide (CO2), dry chemical or foam

Unsuitable extinguishing

media

Do not use water, if avoidable.

#### 5.2. Special hazards arising from the substance or mixture

Specific hazards In case of fire, the following can be released: carbon monoxide (CO), carbon dioxide (CO2),

smoke, soot.

#### 5.3. Advice for firefighters

Protective actions during

firefighting

Avoid breathing fire gases or vapours. Containers close to fire should be removed or cooled

with water.

Special protective equipment

for firefighters

Use protective equipment appropriate for surrounding materials.

#### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Ensure adequate ventilation of the working area, evacuate personnel to safe area, wear

suitable protective equipment. No smoking, sparks, flames or other sources of ignition near

spillage. Avoid contact with skin and eyes. Avoid inhalation of vapours.

#### 6.2. Environmental precautions

**Environmental precautions** Do not discharge into drains or watercourses or onto the ground.

#### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up Absorb with liquid binding material (e.g sand, diatomaceous earth, acid or universal binding

agents). Collect in closed and suitable containers for disposal.

#### 6.4. Reference to other sections

**Reference to other sections** For waste disposal, see Section 13.

#### SECTION 7: Handling and storage

## 7.1. Precautions for safe handling

Usage precautions Avoid contact with skin and eyes. Do not breathe vapours. Keep away from heat, hot

surfaces, sparks, open flames and other ignition sources. No smoking. Use only in well-

ventilated areas.

## 7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Store in tightly-closed, original container in a dry, cool and well-ventilated place.

#### 7.3. Specific end use(s)

## **FENNEL SWEET**

## SECTION 8: Exposure Controls/personal protection

#### 8.1. Control parameters

#### (R)-p-mentha-1,8-diene (CAS: 5989-27-5)

**DNEL** Workers - Inhalation; Long term systemic effects: 33.3 mg/m³

General population - Oral; Long term systemic effects: 4.76 mg/kg

**PNEC** - STP; 1.8 mg/l

- Soil; 0.262 mg/kg

Fresh water; 0.0054 mg/lMarine water; 0.00054 mg/l

Sediment (Freshwater); 1.32 mg/kgSediment (Marinewater); 0.13 mg/kg

Alpha Pinene (CAS: 80-56-8)

**DNEL** Workers - Inhalation; Long term systemic effects: 5.98 mg/m³

General population - Oral; Long term systemic effects: 0.31 mg/kg

General population - Inhalation; Long term systemic effects: 1.06 mg/m³

PNEC - STP; 3.26 mg/l

Soil; 0.539 mg/kgFresh water; 0.004 mg/lMarine water; 0.0004 mg/l

Sediment (Freshwater); 1.033 mg/kgSediment (Marinewater); 0.103 mg/kg

#### 8.2. Exposure controls

#### Protective equipment







Appropriate engineering

controls

Provide adequate ventilation.

Personal protection Use personal protection according to Directive 89/686/EEC

**Eye/face protection** Approved safety goggles.

Hand protection Chemical resistant gloves (PVC)

Other skin and body

protection

Wear protective clothing.

**Hygiene measures** Good personal hygiene procedures should be implemented.

**Respiratory protection** Generally unnecessary in a well ventilated area.

If ventilation is insufficient, respiratory protection must be worn.

**Environmental exposure** 

controls

Avoid discharging into drains.

## **SECTION 9: Physical and Chemical Properties**

## 9.1. Information on basic physical and chemical properties

Appearance Liquid.

#### **FENNEL SWEET**

Colour Colourless to pale yellow.

Odour Characteristic.

Flash point 62°C

**Relative density** 0.950 - 0.970 @ 20°C

Optical rotation

9.2. Other information

**Refractive index** 1.530 - 1.550 @ 20°C

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

**Reactivity** No other information known.

10.2. Chemical stability

**Stability** Stable under normal conditions.

#### 10.3. Possibility of hazardous reactions

Possibility of hazardous

None known.

reactions

#### 10.4. Conditions to avoid

Conditions to avoid Temperatures above room temperature will allow the transfer from liquid to vapour phase and

the formation of explosive atmosphere. Storing the product in open containers will benefit the

formation of peroxides and derogate the quality.

#### 10.5. Incompatible materials

Materials to avoid Strong acids. Strong alkalis. Strong oxidising agents.

## 10.6. Hazardous decomposition products

Hazardous decomposition

No known hazardous decomposition products.

products

## SECTION 11: Toxicological information

## 11.1. Information on toxicological effects

Acute toxicity - oral

**ATE oral (mg/kg)** 16,666.67

#### **SECTION 12: Ecological Information**

**Ecotoxicity** The product contains substances which are toxic to aquatic organisms and which may cause

long-term adverse effects in the aquatic environment.

12.1. Toxicity

12.2. Persistence and degradability

12.3. Bioaccumulative potential

12.4. Mobility in soil

12.5. Results of PBT and vPvB assessment

12.6. Other adverse effects

## SECTION 13: Disposal considerations

## 13.1. Waste treatment methods

## **FENNEL SWEET**

**General information** Dispose of in compliance with all local and national regulations.

## **SECTION 14: Transport information**

#### 14.1. UN number

UN No. (ADR/RID) 3082
UN No. (IMDG) 3082
UN No. (ICAO) 3082
UN No. (ADN) 3082

#### 14.2. UN proper shipping name

Proper shipping name

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

(ADR/RID)

Proper shipping name (IMDG) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

Proper shipping name (ICAO) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

Proper shipping name (ADN) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

#### 14.3. Transport hazard class(es)

ADR/RID class 9

ADR/RID classification code M6

ADR/RID label 9

IMDG class 9

ICAO class/division 9

ADN class 9

## Transport labels



## 14.4. Packing group

ADR/RID packing group III
IMDG packing group III
ICAO packing group III
ADN packing group III

#### 14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant



#### 14.6. Special precautions for user

**EmS** F-A, S-F

ADR transport category 3

#### **FENNEL SWEET**

Emergency Action Code •3Z

Hazard Identification Number 90

(ADR/RID)

Tunnel restriction code (E)

#### 14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

#### **SECTION 15: Regulatory information**

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

EU legislation Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16

December 2008 on classification, labelling and packaging of substances and mixtures (as

amended).

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of

Chemicals (REACH) (as amended).

Guidance CHIP for everyone HSG228.

#### 15.2. Chemical safety assessment

#### SECTION 16: Other information

Revision date 20/10/2016

Revision 1

SDS number 4755

Hazard statements in full 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.

H351 Suspected of causing cancer. H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects. H411 Toxic to aquatic life with long lasting effects.

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## **Product Specification**

PRODUCT DETAILS				
Product Name	FENNEL OIL SWEET	FENNEL OIL SWEET		
Product Code	OEFENNSWEE			
INCI Name	Foeniculum Vulgare Oil			
Country or Origin	Bulgaria			
Tariff Number	33012941			
Natural Status	We hereby declare, to the best of our knowledge and from information received from our supplier, that this product is in accordance to the requirements of Articles 3 (2) (d) of Regulation (EC) 1334/2008 and therefore can be designated as natural.			
Food Grade Status	We confirm, from information received from our supplier, that this product conforms with EU Regulations and can be used in food.			
Kosher Certified	No			
Halal Certified	We hereby delcare, from information received from our supplier, that this product does not contain any ingredient derived from animal origin, extracted from hair or feathers, animal fats, animal extracts, blood of any origin, blood plasma, pork and/or other meat products, except sea food, dairy and poultry egg origin. This product does not contain alcohol (ethanol or grain alcohol) and has not been used in the manufacturing process.			
GMO Declaration	To the best of our knowledge and from information received from our supplier, this product does not derive from genetically modified starting raw material, or additives that are derived from genetically modified organisms.			
Manufacturing Process	Foeniculum Vulgare Oil is the volatile oil obtained by steam distillation of the curshed seeds of			
	Fennel, Foeniculum vulgare, Umbel	iferae.		
Identification	CAS No: 8006-84-6	EINECS No: NA		
	FEMA No: 2482	Alternative Cas: NA		
PHYSICAL AND CHEMICAL	. CHARACTERISTIC			
Appearance	Liquid			
Colour	Colourless to pale yellow			
Odour	Characteristic			
Relative Density @ 20°c (g/ml)	0.950 - 0.985			
Refractive Index @ 20°c	1.520 - 1.560			
Optical Rotation @ 20°c	+4.0 to +25.0			
FRAGRANCE ALLERGENS				
Limonene (5989-27-5) <b>3 - 8%</b>				
FOOD ALLERGENS				
NONE PRESENT				
IFRA				
Limonene (5989-27-5) 3 - 8%	Estragole (140-67-0) <b>1-5%</b>	Anisaldehyde (123-11-5) <b>&lt;0.5%</b>		
2				
STORAGE AND SHELF LIFE				

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Issue No: 1