



Essential Oils, Skincare & Aromatherapy Products

SAFETY DATA SHEET

1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

PRODUCT NAME: Fennel Essential Oil

SUPPLIER: Celtic Tree Oils, Carlingford, Co. Louth, Ireland, A91 D86V

PRODUCT NUMBER: 17

CAS NUMBER: 8006-84-6

EC NUMBER: n/a

INCI: *Foeniculum vulgare* oil.

IDENTIFIED USES: Suitable for cosmetic, flavour, fragrance and professional use only.

BIOLOGICAL DEFINITION: *Foeniculum Vulgare* Oil is the volatile oil obtained by steam distillation of the crushed seeds of Fennel, *Foeniculum vulgare*, *Umbelliferae*.

2: HAZARDS IDENTIFICATION

CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

CAS: 8006-84-6

CLASSIFICATION (EC 1272/2008):

- PHYSICAL HAZARDS: Flam. Liq. 3 - H226
- HEALTH HAZARDS: Asp. Tox. 1 -H304
Skin Irrit. 2 - H315
Skin Sens. 1 - H317
Muta. 2 - H341
Carc. 2 - H351
- ENVIRONMENTAL HAZARDS: Aquatic Chronic 2 - H411

LABEL ELEMENTS

PICTOGRAM:



SIGNAL WORD:

DANGER

HAZARD STATEMENTS:

H226: Flammable liquid and vapour.
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.
H411: Toxic to aquatic life with long lasting effects.

PRECAUTIONARY STATEMENTS:	<p>P242: Use non-sparking tools.</p> <p>P243: Take action to prevent static discharges.</p> <p>P261: Avoid breathing mist/vapours/spray.</p> <p>P273: Avoid release to the environment.</p> <p>P280: Wear protective gloves/protective clothing/eye protection.</p> <p>P301+P310: IF SWALLOWED: Immediately call a POISON CENTER/doctor.</p> <p>P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.</p> <p>P308+P313: IF exposed or concerned: Get medical advice/attention.</p> <p>P331: Do NOT induce vomiting.</p> <p>P333+P313: If skin irritation or rash occurs: Get medical advice/attention.</p> <p>P362+P364: Take off contaminated clothing. And wash it before reuse.</p> <p>P370+P378: In case of fire: Use carbon dioxide, dry chemical, foam to extinguish.</p> <p>P391: Collect spillage.</p>
PRECAUTIONARY STATEMENTS:	<p>P242: Use non-sparking tools.</p> <p>P243: Take action to prevent static discharges.</p> <p>P261: Avoid breathing mist/vapours/spray.</p> <p>P273: Avoid release to the environment.</p> <p>P280: Wear protective gloves/protective clothing/eye protection.</p> <p>P301+P310: IF SWALLOWED: Immediately call a POISON CENTER/doctor.</p> <p>P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.</p> <p>P308+P313: IF exposed or concerned: Get medical advice/attention.</p> <p>P331: Do NOT induce vomiting.</p> <p>P333+P313: If skin irritation or rash occurs: Get medical advice/attention.</p> <p>P362+P364: Take off contaminated clothing. And wash it before reuse.</p> <p>P370+P378: In case of fire: Use carbon dioxide, dry chemical, foam to extinguish.</p> <p>P391: Collect spillage.</p>
SUPPLEMENTARY PRECAUTIONARY STATEMENTS:	<p>P264: Wash hands and exposed skin thoroughly after handling.</p> <p>P362+P364: Take off contaminated clothing. And wash it before reuse.</p> <p>P403+P235: Store in a well-ventilated place. Keep cool.</p>
CONTAINS:	d-Limonene, alpha-Pinene, Methylchavicol, p-Cymene

3: COMPOSITION/INFORMATION ON INGREDIENTS

70-80% trans-Anethole

CAS NUMBER: 4180-23-8

EC NUMBER: 224-052-0

CLASSIFICATION (EC 1272/2008):

Skin Sens. 1 H317

3-8% d-Limonene

CAS NUMBER: 5989-27-5

CLASSIFICATION (EC 1272/2008):

EC NUMBER: 227-813-5

Flam. Liq. 3 - H226

Asp. Tox. 1- H304

Skin Irrit. 2 - H315

Skin Sens. 1- H317

Aquatic Acute 1 - H400

Aquatic Chronic 1 - H410

1-7% alpha-Pinene

CAS NUMBER: 80-56-8

CLASSIFICATION (EC 1272/2008):

EC NUMBER: 201-291-9

Flam. Liq. 3 - H226

Acute Tox. 4 - H302

Asp. Tox. 1- H304

Skin Irrit. 2 - H315

Skin Sens. 1 - H317

Aquatic Acute 1 - H400

Aquatic Chronic 1 - H410

Max 6% Methylchavicol (Estragole)

CAS NUMBER: 140-67-0

CLASSIFICATION (EC 1272/2008):

EC NUMBER: 205-427-8

Acute Tox. 4 -H302

Skin Sens. 1- H317

Muta. 2 - H341

Carc. 2 - H351

1.5% p-Cymene

CAS NUMBER: 99-87-6

CLASSIFICATION (EC 1272/2008):

EC NUMBER: 202-796-7

Flam. Liq. 3 - H226

Asp. Tox. 1- H304

Aquatic Chronic 2 - H411

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

4: FIRST AID MEASURES

INHALATION:

Remove from exposure area to fresh air. Get medical advice/attention.

INGESTION:

Do not induce vomiting. Ingestion may cause nausea and vomiting. Immediately rinse mouth and provide fresh air. Get medical advice/attention.

SKIN CONTACT:

Remove contaminated clothing immediately and wash skin with soap and water. Get medical advice/attention if any discomfort continues.

EYE CONTACT:

Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart. Get medical advice/attention. Continue to rinse.

MOST IMPORTANT SYMPTOMS AND EFFECTS,

BOTH ACUTE AND DELAYED:

Allergic contact dermatitis.

INDICATION OF ANY IMMEDIATE MEDICAL

ATTENTION AND SPECIAL TREATMENT NEEDED:

Treat symptomatically.

5: FIREFIGHTING MEASURES

EXTINGUISHING MEDIA RECOMMENDED:

Carbon dioxide, dry chemical, foam.

UNSUITABLE EXTINGUISHING MEDIA:

Do not use water jet as an extinguisher, as this may scatter and spread fire.

SPECIAL HAZARDS ARISING FROM THE PRODUCT:

In case of fire toxic fumes like carbon monoxide and carbon dioxide may be liberated. Burning produces heavy smoke.

ADVICE FOR FIREFIGHTERS:

Move undamaged containers from immediate hazard area if it can be done safely. Use suitable breathing apparatus.

Regard to self-protection.

6: ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES:

Wear personal protection equipment. Avoid contact with skin, eye and clothing. Remove all sources of ignition. Provide adequate ventilation. Give a warning to persons in the hazard area.

ENVIRONMENT PRECAUTIONS:

Do not allow to enter into surface water or drains. Cover drains.

CLEANING UP METHODS FOR SPILLAGES:

Prevent spread over a wide area (e.g. by containment or oil barriers). Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).

REFERENCE TO OTHER SECTIONS:

See protective measures under point 7 and 8.

7: HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING:

Wear personal protective clothing (see chapter 8).

Do not breathe mist / vapour/spray.

Use only in well-ventilated areas.

Provide earthing of containers, equipment, pumps and ventilation facilities.

Take precautionary measures against static discharges.

STORAGE PRECAUTIONS:

Keep container tightly closed in a cool, well-ventilated place.

8: EXPOSURE CONTROLS/PERSONAL PROTECTION

PROTECTIVE EQUIPMENT:



PROCESS CONDITIONS:

Technical measures and the application of suitable work processes have priority over personal protection equipment.

ENGINEERING MEASURES:

Generally unnecessary in a well-ventilated area.

RESPIRATORY EQUIPMENT:

If ventilation is insufficient, respiratory protection must be worn.

HAND PROTECTION:

For high concentrations use respiratory equipment.

Use solvent and acid resistant protection gloves according to EN 374.

The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.

EYE PROTECTION:

Use protection goggles according to EN166.

OTHER PROTECTION;	Wear appropriate clothing to prevent any possibility of skin contact.
HYGIENE MEASURES:	Good personal hygiene practices are always advisable, especially when working with chemicals / oils.
PERSONAL PROTECTION:	Use personal protection according to Directive 89/686/EEC.
SKIN PROTECTION;	Wear apron or protective clothing in case of splashes.
ENVIRONMENTAL EXPOSURE CONTROLS:	See section 6 and 7.

9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	Liquid, colourless to pale yellow.
COLOUR:	Colourless to pale yellow.
ODOUR:	Characteristic
RELATIVE DENSITY:	Approx. 0.980 @ 20°C
FLASH POINT (°C):	58°C
REFRACTIVE INDEX;	Approx. 1.540 @ 20°C
MELTING POINT (°C):	No additional data available.
BOILING POINT (°C):	No additional data available.
VAPOUR PRESSURE:	No additional data available.
SOLUBILITY IN WATER @20°C:	Insoluble in water.
AUTO-IGNITION TEMPERATURE (°C):	No additional data available.

10: STABILITY AND REACTIVITY

REACTIVITY:	No dangerous reactions known.
CHEMICAL STABILITY:	Product is stable at room temperature.
POSSIBLE HAZARDOUS REACTIONS:	No dangerous reactions expected if used according to specifications.
CONDITIONS TO AVOID:	Avoid extreme heat and direct sunlight.
INCOMPATIBLE MATERIALS:	Avoid contact with strong acids, alkalis or oxidising agents.
HAZARDOUS DECOMPOSITION PRODUCTS:	The thermal decomposition may release/form oxides of carbon.

11: TOXICOLOGICAL INFORMATION

ACUTE TOXICITY:	Not classified.
SKIN CORROSION / IRRITATION:	Causes skin irritation.
SERIOUS EYE DAMAGE / IRRITATION:	Not classified.
RESPIRATORY OR SKIN SENSITISATION;	May cause an allergic skin reaction.
GERM CELL MUTAGENICITY:	Suspected of causing genetic defects.
CARCINOGENICITY:	Suspected of causing cancer.
REPRODUCTIVE TOXICITY:	Not classified.
STOT-SINGLE EXPOSURE:	Not classified.
STOT-REPEATED EXPOSURE:	Not classified.
ASPIRATION HAZARD:	May be fatal if swallowed and enters airways.
PHOTO-TOXICITY:	No additional data available.
OTHER INFORMATION:	No additional data available.

12: ECOLOGICAL INFORMATION

ECOTOXICITY:	Toxic to aquatic life with long lasting effects.
PERSISTENCE AND DEGRADABILITY:	No additional data available
BIOACCUMULATIVE POTENTIAL:	No additional data available
MOBILITY IN SOIL:	No additional data available
RESULTS OF PBT AND vPvB ASSESSMENT:	This substance does not meet the PBT/vPvB criteria of REACH, annex XIII.
PRECAUTIONS:	No additional data available

13: DISPOSAL CONSIDERATIONS

DISPOSAL METHODS:	Hazardous waste according to waste regulation. Dispose according to legislation. Delivery to an approved waste disposal company. Non-contaminated packages may be recycled.
-------------------	--

14: TRANSPORT INFORMATION

UN No. ROAD:	1169
UN No. SEA:	1169
UN No. AIR:	1169
PROPER SHIPPING NAME:	Extracts, aromatic, liquid.

TRANSPORT HAZARD CLASS(ES):

- | | |
|----------------------|---------------------|
| - ADR/RID/ADN CLASS: | 3 Flammable Liquid. |
| - IMDG CLASS: | 3 Flammable Liquid. |
| - ICAO CLASS: | 3 Flammable Liquid. |



PACKING GROUP:

- | | |
|------------------------------|-----|
| - ADR/RID/ADN PACKING GROUP: | III |
| - IMDG PACKING GROUP: | III |
| - ICAO PACKING GROUP: | III |

ENVIRONMENTAL HAZARDS:	Environmentally Hazardous Substance/Marine Pollutant
------------------------	---



SPECIAL PRECAUTIONS FOR USER:	This product is flammable and dangerous for the environment. Tunnel restriction code: D/E.
-------------------------------	---

TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL73/78 AND THE IBC CODE:	No additional information available.
---	--------------------------------------

15: REGULATORY INFORMATION

STATUTORY LEGISLATION:

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (S.I 2009 No. 716).

EU LEGISLATION:

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), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.

GUIDANCE:

Workplace Exposure Limits EH40. CHIP for everyone HSG (108).

16: OTHER INFORMATION

HAZARD AND/OR PRECAUTIONARY 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.

Q.C. REQUIREMENTS.

In-line with general product specification. Always satisfy suitability for specific application.

Retest after 6 months.

The data provided in this material safety data sheet is meant to represent typical data/analysis for this product and is correct to the best of our knowledge. The data was obtained from current and reliable sources, but is supplied without warranty, expressed or implied, regarding its' correctness or accuracy. It is the user's responsibility to determine safe conditions for the use of this product, and to assume liability for loss, injury, damage or expense arising from improper use of this product. The information provided does not constitute a contract to supply to any specification, or for any given application, and buyers should seek to verify their requirements and product use.