01. IDENTIFICATION OF THE SUBSTANCE/PREPARATION & THE COMPANY/UNDERTAKING

1.1 Product Identifier

<table>
<thead>
<tr>
<th>Product Name</th>
<th>Fennel Oil Sweet.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biological Definition</td>
<td>Foeniculum Vulgare Oil is the volatile oil obtained by steam distillation of the crushed seeds of Fennel, <em>Foeniculum vulgare</em>, Umbelliferae.</td>
</tr>
<tr>
<td>INCI Name</td>
<td>Foeniculum vulgare oil.</td>
</tr>
<tr>
<td>Synonyms &amp; Trade Names</td>
<td>Sweet Fennel Oil</td>
</tr>
<tr>
<td>CAS-No</td>
<td>8006-84-6</td>
</tr>
<tr>
<td>EC No.</td>
<td>n/a</td>
</tr>
<tr>
<td>EINECS No.</td>
<td>n/a</td>
</tr>
</tbody>
</table>

1.2 Relative identified uses of the substance or mixture and uses advised against

No additional data available.

1.3 Details of the supplier of the safety data sheet

Essential Oils Direct Ltd 13 Parkside Industrial Estate, Royton, Oldham OL2 6DS - Reg No 04199912

1.4 Emergency Tel. No. + 44 (0) 161 633 3952

02. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

The Full Text for all Hazard Statements are Displayed in Section 16.

Classification (EC 1272/2008)

- Physical and Chemical Hazards: Not classified.
- Skin Sens. 1 (H317)
- Asp. Tox. 1 (H304)
- Aqu. Chron. 2 (H411)
- Muta 2 (H341)
- Carc. 2 (H351)

2.2 Label Elements

Label in accordance with (EC) No 1272/2008

GHS08  GHS07  GHS09

Signal Word Danger.

Contains -

Hazard Statements

- H317 May cause an allergic skin reaction.
- H304 May be fatal if swallowed and enters airways.
- H411 Toxic to aquatic life with long lasting effects.
- H341 Suspected of causing genetic defects (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard).
### Precautionary Statements

- **P202**: Do not handle until all safety precautions have been read and understood.
- **P280**: Wear protective gloves/protective clothing and eye/face protection.
- **P301+ 330+331**: IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
- **P310**: Immediately call a POISON CENTER or doctor/physician.
- **P273**: Avoid release to the environment.
- **P501**: Dispose of contents/container to regional, national regulation.

### 2.3 Other Hazards

- **PBT or vPvB according to Annex XIII**: No additional data available.
- **Adverse physio-chemical properties**: No additional data available.
- **Adverse effects on human health**: No additional data available.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.2 Mixtures

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS No</th>
<th>EC No</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>70-80% trans-Anethole</strong></td>
<td>4180-23-8</td>
<td>224-052-0</td>
<td>ATO 5(2700); SCI3; SS1, EHA2</td>
</tr>
<tr>
<td><strong>3-8% Limonene</strong></td>
<td>5989-27-5</td>
<td>227-813-5</td>
<td>AH1, EHC1, FL3, SCI2, SS1</td>
</tr>
<tr>
<td><strong>1-7% alpha-Pinenes</strong></td>
<td>80-56-8</td>
<td>201-291-9</td>
<td>AT1, FL3, SCI2, SS1</td>
</tr>
<tr>
<td><strong>Max 6% Methylchavicol</strong></td>
<td>140-67-0</td>
<td>205-427-8</td>
<td>FL4, ATO4 (1230), SCI3, SS1, CAR2, MUT2</td>
</tr>
<tr>
<td><strong>1.5% p-Cymene</strong></td>
<td>99-87-6</td>
<td>202-796-7</td>
<td>AT04 (1500), SCI3, EHA2, C2</td>
</tr>
</tbody>
</table>

### 4. FIRST AID MEASURES

#### 4.1 Description of first aid measures

- **Inhalation**: Do not leave affected person unattended. Remove victim out of the danger area. Provide fresh air.
- **Ingestion**: DO NOT INDUCE VOMITING! Immediately rinse mouth and provide fresh air. Get medical attention.
- **Skin Contact**: After contact with skin. Remove contaminated, saturated clothing immediately, wash immediately with plenty of water and soap.
- **Eye Contact**: In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

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

Observe risk of aspiration if vomiting occurs.
## 04. INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

Treat symptomatically.

## 05. FIRE-FIGHTING MEASURES

### 5.1 Extinguishing Media

- Foam
- Extinguishing powder
- Carbon dioxide (CO2)
- Avoid full water jet

### 5.2 Special hazards arising from the product

**B (Fires of liquids or liquid turning substances).**

In case of fire toxic fumes like carbon monoxide and carbon dioxide may be liberated.

Burning produces heavy smoke.

### 5.3 Advice for firefighters

Move undamaged containers from immediate hazard area if it can be done safely.

Use suitable breathing apparatus.

Regard to self protection.

## 06. ACCIDENTAL RELEASE MEASURES

### 6.1 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.

### 6.2 Environmental Precautions

- Do not allow to enter into surface water or drains.
- Cover drains.
- Prevent spread over a wide area (e.g. by containment or oil barriers).

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

- Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).

### 6.4 Reference to other sections

See protective measures under point 7 and 8.

## 07. HANDLING AND STORAGE

### 7.1 Precautions for safe handling

- Wear personal protective clothing (see chapter 8).
- Do not breathe gas/fume/vapour/spray.
- Use only in well-ventilated areas.
- When using do not eat, drink, smoke, sniff.
- Provide earthing of containers, equipment, pumps and ventilation facilities.
- Take precautionary measures against static discharges.

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

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

### 7.3 Specific end use(s)

No additional data available.
08. EXPOSURE CONTROLS/PERSOANL PROTECTION

8.1 Control parameters

No additional data available.

8.2 Exposure controls

Protective Equipment

<table>
<thead>
<tr>
<th>Process Conditions</th>
<th>Technical measures and the application of suitable work processes have priority over personal protection equipment.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Engineering Measures</td>
<td>Provide adequate ventilation.</td>
</tr>
<tr>
<td>Respiratory Equipment</td>
<td>For high concentrations use respiratory equipment.</td>
</tr>
<tr>
<td>Hand Protection</td>
<td>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.</td>
</tr>
<tr>
<td>Eye Protection</td>
<td>Use protection goggles according to EN166.</td>
</tr>
<tr>
<td>Other Protection</td>
<td>Wear appropriate clothing to prevent any possibility of skin contact.</td>
</tr>
<tr>
<td>Hygiene Measures</td>
<td>Good personal hygiene practices are always advisable, especially when working with chemicals / oils.</td>
</tr>
<tr>
<td>Personal Protection</td>
<td>Use personal protection according to Directive 89/686/EEC.</td>
</tr>
<tr>
<td>Skin Protection</td>
<td>Wear apron or protective clothing in case of splashes.</td>
</tr>
<tr>
<td>Environmental Exposure Controls</td>
<td>See section 6 and 7.</td>
</tr>
</tbody>
</table>

09. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Liquid, colourless to yellowish.</td>
</tr>
<tr>
<td>Colour</td>
<td>Colourless to yellowish.</td>
</tr>
<tr>
<td>Odour</td>
<td>Characteristic</td>
</tr>
<tr>
<td>Relative Density</td>
<td>0.950 - 0.985 @ 20°C</td>
</tr>
<tr>
<td>Flash Point (°C)</td>
<td>62°C</td>
</tr>
<tr>
<td>Refractive Index</td>
<td>1.520 - 1.560 @ 20°C</td>
</tr>
<tr>
<td>Melting Point (°C)</td>
<td>No additional data available.</td>
</tr>
<tr>
<td>Boiling Point (°C)</td>
<td>No additional data available.</td>
</tr>
<tr>
<td>Vapour Pressure</td>
<td>No additional data available.</td>
</tr>
<tr>
<td>Solubility in Water @20°C</td>
<td>Insoluble in water.</td>
</tr>
<tr>
<td>Auto-ignition temperature (°C)</td>
<td>No additional data available.</td>
</tr>
</tbody>
</table>

9.2 Other information

No additional data available.

10. STABILITY AND REACTIVITY

10.1 Reactivity

No dangerous reactions known.

10.2 Chemical stability

Product is stable at room temperature.
10.3 Possible hazardous reactions

No dangerous reactions expected if used according to specifications.

10.4 Conditions to Avoid

Temperatures more than room temperature will benefit the transfer from liquid to vapour phase and formation of explosive atmospheres.
Storing the product in open containers will benefit the formation of peroxides and derogate the quality.

10.5 Incompatible materials

No additional data available.

10.6 Hazardous Decomposition Products

No dangerous decomposition products known.

11. TOXOLOGICAL INFORMATION

11.1 Information on toxicological effects

<table>
<thead>
<tr>
<th>Acute Toxicity</th>
<th>Acute toxicity</th>
</tr>
</thead>
<tbody>
<tr>
<td>LD50 (oral) in mg/kg: 3800 (3430 - 4170)</td>
<td>LD50 (dermal) in mg/kg: &gt; 5000</td>
</tr>
</tbody>
</table>

| Skin corrosion / irritation | No additional data available. |
| Serious eye damage / irritation | No additional data available. |
| Respiratory or skin sensitisation | No additional data available. |
| Germ Cell Mutagenicity | No additional data available. |
| Reproductive toxicity | No additional data available. |
| STOT-single exposure | No additional data available. |
| STOT-repeated exposure | No additional data available. |
| Aspiration hazard | No additional data available. |
| Photo-toxicity | No additional data available. |
| Other Information | No additional data available. |

12. ECOLOGICAL INFORMATION

12.1 Toxicity

No additional data available.

12.2 Persistence & degradability

No additional data available.

12.3 Bioaccumulation Potential

No additional data available.

12.4 Mobility in soil

No additional data available.

12.5 Results of PBT and vPvB Assessment

No additional data available.

12.6 Other adverse effects

No additional data available.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment 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

14.1 UN number

| UN No. Road | 3082 |
| UN No. SEA  | 3082 |
| UN No. AIR  | 3082 |

14.2 UN proper shipping name

ENVIRONMENTALLY HAZARDOUS SUBSTANCE LIQUID N.O.S.

14.3 Transport hazard class(es)

ADR/RID/ADN Class 9: Miscellaneous dangerous substances and articles.  
IMDG Class 9  
ICAO Class/Division 9

Transport Labels

14.4 Packing group

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

14.5 Environmental hazards

Environmentally Hazardous Substance/Marine Pollutant

14.6 Special precautions for user

EMS F-A-S-F.  
Emergency Action Code 3Z.  
Hazard No. (ADR) 90 Environmentally hazardous substance; miscellaneous dangerous substances.  
Tunnel Restriction Code (E).

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

Packed and transferred according to transport regulations.

15. REGULATORY INFORMATION

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

Statutory Instruments

Essential Oils Direct Ltd – 13 Parkside Industrial Estate, Edge Lane St, Royton OL2 6DS - 0161 633 3952 Reg No 04199912

www.essentialoilsdirect.co.uk

Revision Date: 28/09/2016

Rev No/Repl SDS Generated 03

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

EU Legislation

15.2 Chemical safety assessment
For this substance a chemical safety assessment has not been carried out.

16. OTHER INFORMATION

| Hazard and/or Precautionary Statements in Full | H317 | May cause an allergic skin reaction. |
| H304 | May be fatal if swallowed and enters airways. |
| H411 | Toxic to aquatic life with long lasting effects. |
| H341 | Suspected of causing genetic defects (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard). |
| H351 | Suspected of causing cancer. |

Other Information
None

Revision Date
28/09/2016

Reason for revision
02 - Transfer to new SDS format and Update of Transport data.
03 – update INCI name and Cas No.

Rev No/Repl, SDS Generated
03 (Replaces 02)

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