

# MATERIAL SAFETY DATA SHEET

## 1. IDENTIFICATION OF SUBSTANCE/PREPARATION & COMPANY.

PRODUCT NAME: Fennel Oil

PRODUCT CODE: 30322

SUPPLIER: The Soap Kitchen, 11a South Street, Torrington, Devon, EX38 8AA  
Emergency Tel No: 01805 622944 Emergency Contact: Mr. Richard Phillips.

## 2. COMPOSITION / INFORMATION ON INGREDIENTS.

DEFINITION/BOTANICAL ORIGIN: By steam distillation of the ripe fruits of *foeniculum vulgare* Mill. Var dulce d.c. Alef. (Fam. *Apiaceae*).

H-No: 3301.29	CAS No: 8006-84-6	Status: natural
CoE No: 200	FEMA: 2482	Additives: none
FDA: § 182.20	IFRA: not restricted	Application: Aromatherapy, skin care etc
RIFM:	EINECS:	RTECS:
INCI name: Foeniculum vulgare dulce		FCCIV: official

## 3. HAZARDS IDENTIFICATION:

R10 Flammable

## 4. FIRST-AID MEASURES:

INHALATION:	Remove from exposure site to fresh air. Keep at rest. Obtain medical attention.
EYE CONTACT:	Rinse immediately with plenty of water for at least 15 mins. Contact a doctor if symptoms persist.
SKIN CONTACT:	Remove contaminated clothes. Wash thoroughly with soap & water, flush with plenty of water. If irritation persists, seek medical advice.
INGESTION:	Rinse mouth out with water. Seek medical advice immediately.
OTHER:	When assessing action take Risk & Safety Phrases into account (Section 15)

## 5. FIRE FIGHTING MEASURES.

EXTINGUISHING MEDIA RECOMMENDED:	Use CO <sub>2</sub> , Dry Powder or Foam type Extinguishers, spraying extinguishing media to base of flames. Do not use direct water jet on burning material.
SPECIAL MEASURES:	Avoid vapour inhalation. Keep away from sources of ignition. Do not smoke. Wear positive pressure self-contained breathing apparatus & protective clothing.
EXTINGUISHING PROCEDURES:	Closed containers may build up pressure when exposed to heat and should be cooled with water spray.

## 6. ACCIDENTAL RELEASE MEASURES.

PERSONAL PRECAUTIONS:	Avoid inhalation & direct contact with skin & eyes. Use individual protective equipment (safety glasses, waterproof-boots, suitable protective clothing) in case of major spillages.
ENVIRONMENT PRECAUTIONS:	Keep away from drains, soils, surface & groundwaters.
CLEANING UP METHODS FOR SPILLAGES:	Remove all potential ignition sources. Contain spilled material. Cover with an inert or non-combustible inorganic absorbent material, sweep up and remove to an approved disposal container. Observe state, federal & local disposal regulations.

## 7. HANDLING & STORAGE.

PRECAUTIONS IN HANDLING:	Apply good manufacturing practice & industrial hygiene practices, ensuring proper ventilation. Observe good personal hygiene, and do not eat, drink or smoke whilst handling.
STORAGE CONDITIONS:	Store in tightly closed original container, in a cool, dry & ventilated area away from heat sources & protected from light. Keep air contact to a minimum.
FIRE PROTECTION:	Keep away from ignition sources & naked flames. Take precautions to avoid static discharges in working area.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION.

RESPIRATORY PROTECTION:	Avoid breathing product vapour. Apply local ventilation where possible.
VENTILATION:	Ensure good ventilation of working area.
HAND PROTECTION:	Avoid all skin contact. Use chemically resistant gloves if required.
EYE PROTECTION:	Use safety glasses.
WORK/HYGIENE PRACTICES:	Wash hands with soap & water after handling.

## 9. PHYSICAL & CHEMICAL PROPERTIES.

COLOUR:	Colourless to light yellow
APPEARANCE:	Thin, clear liquid
ODOUR:	Characteristic of plant
FLASH POINT °C:	60
SPECIFIC GRAVITY @ 20°C:	0.910 - 0.970
REFRACTIVE INDEX @ 20°C:	1.505 -1.533
OPTICAL ROTATION:	+12 ° TO +22 °
SOLUBILITY IN 85% ETHANOL @ 20 °C:	2 volume oil in 1 volume ethanol

## 10. STABILITY & REACTIVITY.

REACTIVITY:	It presents no significant reactivity hazards, by itself or in contact with water. Avoid contact with strong acids, alkali or oxidising agents.
DECOMPOSITION:	Liable to cause smoke & acrid fumes during combustion: carbon monoxide, carbon dioxide & other non-identified organic compounds may be formed.

## 11. TOXICOLOGICAL INFORMATION.

Acute Oral rat LD<sub>50</sub>: >2g/kg. RIFM monograph (1974) FCT, 12, 879 (1976) & FCT 17, 529. Weak estrogenic activity noted: M. Albert-Puleo: J. Ethnopharmacol. 2, 337 (1980)

## 12. ECOLOGICAL INFORMATION.

BIODEGRADABILITY:	Data not available
PRECAUTIONS:	Prevent surface contamination of soil, ground & surface water.

## 13. DISPOSAL CONSIDERATIONS.

Avoid disposing to drainage systems and into the environment. Seek expert advice.

## 14. TRANSPORT REGULATIONS.

ROAD (ADR/RID):	Class 3 Item 31/c RID No 301; ADR RN N/2301
AIR (IATA/ICAO):	Class 3 Packing group III
SEA (IMDG):	page 3142, Class 3
CHIP:	See Section 15.

## 15. REGULATORY INFORMATION. According to Directive 88/379/EEC

HAZARDS:	flammable liquid
SYMBOLS:	
RISK PHRASES:	R10 Flammable
SAFETY PHRASES:	S16 Keep away from sources of ignition: No Smoking

## 16. OTHER INFORMATION.

UN 1169: applies

Cosmetics Directive 7<sup>th</sup> Amendment: Restrictions may apply. A source of Limonene, listed as a sensitiser. Check maximum usage levels for skin care products.

### PACKAGING:

Type	Suitability
Glass	Yes
Lacquer lined steel/tin	Yes
Aluminium	Yes
HPPE	No
F/HDPE	Yes
Other plastic	No

### SHELF LIFE

When stored within advised conditions, re-test after 12 months then every 3 months up to a maximum shelf life of 36 months.

### Q.C. REQUIREMENTS.

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

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