

MATERIAL SAFETY DATA SHEET

1. Identification of Substance/Preparation & Company

PRODUCT NAME: Fennel Oil, Sweet

PRODUCT CODE: FENNEL

SUPPLIER: Green Valley Aromatherapy Ltd.,

505 Duncan Ave, Courtenay, BC CANADA V9N 2M6

Emergency Tel No: (250) 334-4836. Contact Person: Kelly Lees

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:3301.29.5050
 CAS No:8006-84-6
 Status:natural

 CoE No:200
 FEMA:2483
 Additives:none

FDA:§ 182.20 IFRA:not restricted Application: Aromatherapy, Skincare, 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 minutes. 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 out mouth with water. Seek medical advice **immediately**.

OTHER: When assessing action take Risk & Safety Phrases into account (Section 15).

5. Fire Fighting Measures

EXTINGUISHING MEDIA: Use CO², 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 & ground waters.

CLEAN UP METHODSRemove 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 municipal, federal and local disposal regulations.

7. Handling & Storage

PRECAUTIONS IN HANDLING: Apply good manufacturing practice & industrial hygiene practices, ensuring proper

ventilation. Observe good personal hygiene. 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:
 0.950 – 0.970

 OPTICAL ROTATION @ 20°C:
 +12° to +22°

 REFRACTIVE INDEX @ 20°C:
 1.530 – 1.550

SOLUBILITY IN 75% ETHANOL @ 20°C: 2 volume oil in 1 volume ethanol

SOLUBILITY IN VEGETABLE OILS: Soluble
SOLUBILITY IN WATER: Insoluble

Typical Analysis by GLC/GCMS:

CONSTITUENT	PERCENTAGE
alpha Pinene	15.8
Beta Pinene	1.7
Sabinene	0.4
Myrcene	17.2
Limonene	5.1
Beta Phellandrene	1.9
Gamma Terpinene	1.0
Para Cymene	1.9
Fenchone	4.3
Methyl Chavicol	8.5
Trans Anethole	39.0

10. Stability & Reactivity

REACTIVITY: It presents no significant reactivity hazards, by itself or in contact with water. Avoid contact

with strong acids, alkali or oxidizing agents.

DECOMPOSITION: Liable to cause smoke & acrid fumes during combustion: carbon monoxide, carbon dioxide

and other non-identified organic compounds may be formed.

11. Toxicological Information

Acute Oral rat LD50: >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 3.3 Packing Group III

SEA (IMDG): 3142 Class 3 CHIP: See section 15

15. Regulatory Information According to Directive 88/379/EEC

HAZARDS: Flammable liquid

SYMBOLS: n/a

RISK PHRASES: R10 Flammable liquid

SAFETY PHRASES: S16 Keep away from sources of ignition: No Smoking

16. Other Information

PACKAGING: TYPE SUITABILITY

 Glass
 Yes

 Lacquer lined steel/tin
 Yes

 Aluminums
 Yes

 HPPE
 No

 F/HDPE
 Yes

 Other Plastic
 No

SHELF LIFE

Minimum 12 months when stored within advised conditions. Re-test after 12 months then every 3 months, up to a maximum of 36 months.

Q.C REQUIREMENTS

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

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