

Fennel sweet

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MATERIAL SAFETY DATA SHEET

ACCORDING TO EC LEGISLATION 91/155/E EC

Date created: August 2002

Date revised: June 2005

1. Identification:

Commercial name: Fennel Sweet essential oil.

Botanical Nomenclature: Foeniculum vulgare.

INCI name: Foeniculum vulgare.

CAS number: 8006-84-6.

EINECS CAS number: 84455-29-8

EEC Number: 282-892-3

2. Composition:

Main components: Anethole, fenchone, methyl chavicol, a-pinene, p-cymene,
anisaldehyde.

Additives (e.g. carriers, preservatives, antioxidants): Nil.

3. Potential Health Hazards:

Inhalation: None identified.

Skin: Concentrated liquid and vapours irritating to skin by prolonged exposure.

Eyes: Irritating to eyes with possible damage.

Ingestion: Harmful if swallowed.

4. First aid:

Inhalation: If discomfort is felt, remove person to a well ventilated area with
plenty of fresh
air.

Skin: Remove contaminated clothing. Wash affected area with plenty of soap and
water.

Eyes: Flush immediately with plenty of cool water for 10 to 20 minutes. Seek
medical advice

from a Medical Doctor.

Ingestion: Seek immediate medical care.

5. In case of fire:

Extinguishing Media: Foam, Carbon dioxide.

Do not use: Water.

Special precautions: wear breathing apparatus as toxic vapours may be released
during fire.

6. Spill and Leak Procedure:

Individual precautions: Eliminate sources of ignition. Keep area well
ventilated and isolate
the spill.

Environmental protection: Prevent the liquid from entering the drains and
sewers.

Cleaning methods: Soak up the spill using inert absorbents. For large spills
use pumps.

7. Handling and storage:

Store in a cool, dry and dark place in suitable containers (aluminium cans or
lacquer lined
steel drums).

Handle in a well ventilated area.

Keep away from sources of heat and ignition.

8. Personal Protection / Exposure control:

Respiratory protection: wear breathing apparatus when working in an area of high
vapour
concentration.

Skin protection: Use protective gloves. Wear protective clothing when
possibility exists of
contact.

Eye protection: Goggles should be worn.

General precautions: Use good industrial hygiene practise.

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Colourless liquid

9. Physiochemical properties:

Appearance:

Sweet aromatic aniseed-like odour

Odour:

pH:

Neutral

Not available

Boiling point:

50°

Flash point:

Autoignition Temperature:

Not available

Not available

Explosion Limits:

Vapour pressure (25°C):

Not available

>1 (air=1)

Vapour Density:

Specific Gravity (25°C):

0.971 to 0.980

Optical Rotation (20°C):

+5° to 16°

Refractive Index (20°C):

1.550 to 1.553

Solubility in water (20°):

Negligible

Partition Coefficient log P o/w:

Not available

Evaporation rate:

<1 (Butyl Acetate=1)

10. Stability and Reactivity:

Chemical Stability: Stable.

Conditions to avoid: Normally stable. Not reactive with water.

Hazardous Decomposition Products: Not available.

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11. Sensitisers:
Limonene 4%, total 4%

5 g/kg in rabbits.

12. Toxicological Information:
According to RIFM- Monograph:
Acute Toxicity: Oral LD50: 4.52 g/kg in rats.
Dermal LD50:

Irritation:

Tested without irritation at 4%.

Sensitisation:

Tested without sensitisation at 0.5%.

Phototoxicity:

No phototoxic reaction reported.

13. Ecotoxicological information:
Fish Toxicity: LCO/EC50: Not available.
Bacteriotoxicity: ECO/EC50: Not available.

14. Disposal Method:
Check Federal, State and Local Regulations.

15. Transport Information:
UN Number 1993: Proper shipping name: Flammable Liquid N.O.S.
Hazard Class: 3.3 Packing group: III
Transport Safety: Air (ATA/ICAO)
2/PAX309/CA310/III

Sea (IMDG-Code): 3.3/III

Rail (RID): 3.31c

Road (ADR): 3.31c

16. Regulatory Information
The British Essential Oil Association Chip Regulations 2002

Hazard Symbols: Xn
Risk Phrases:

R10, 65
H/C %: 20
Safety Phrases: S62

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FOR AND ON BEHALF OF SHIRLEY PRICE AROMATHERAPY LTD:
P.I Brealey..... (MANAGING DIRECTOR)
DATE: