

**MATERIAL SAFETY DATA SHEET**

<b>1. Substance and Company Information</b>					
Product name			<b>Fennel oil</b>		
Company			Penny Price Aromatherapy Ltd		
			The Stables		
			41 Leicester Road		
			Hinckley		
			Leicestershire LE10 1LW		
Emergency Telephone Number			00 44 (0) 1455 251020		
<b>2. Composition/Ingredient Information</b>					
H-No:	3301.29	CAS No:	8006-84-6	Status:	Natural
CoE No:	200	FEMA	2483	Additives:	None
FDA	182.20	IFRA	Not Restricted	RTECS:	
RIFM	-	EINECS:		FCCIV:	Official
INCI name	Foeniculum vulgare				
<b>3. Hazards Identification</b>					
Concentrated product. Do not ingest. Observe good housekeeping procedures					
<b>4. First Aid Procedure</b>					
Inhalation	Remove from exposure site to fresh air. Keep at rest. Obtain medical attention.				
Eye contact	Rinse immediately with plenty of cold water for at least 5 minutes. Contact a doctor is symptoms persist.				
Skin contact	Remove contaminated clothes. Wash thoroughly soap and water, flush with plenty of water. If irritation persists seek medical attention.				
Ingestion	Rinse mouth out with soap and water. Seek medical advise at once.				
Other	When assessing action take Risk and Safety Phrases (section 15) in to account				
<b>5. Fire fighting measures</b>					
Suitable extinguishing media	Use CO2 dry powder or foam type of 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 and protective clothing				
Extinguishing procedures	Closed containers may build up pressure when exposed when exposed to heat and should be cooled with water spray				
<b>6 Accidental release measures</b>					
Personal precautions	Avoid inhalation and direct contact with skin and eyes. Use individual protective equipment (safety glasses, waterproof boots, suitable protective clothing) in case of major spillages.				
Environmental precautions	Keep away from drains, soils, surface and ground waters				
Methods for cleaning up	Remove all potential ignition sources. Contain spilled material. Cover with an inert or non-combustible inorganic material, or sweep up and remove to an approved disposal container. Observe state federal and local disposal regulations.				
<b>7. Handling and storage</b>					
Handling	Apply good manufacturing practice and industrial hygiene practices, ensuring proper ventilation. Observe good personal hygiene and do not eat, drink or smoke whilst handling. Avoid static discharge				
Storage	Store in tightly closed original container, in a cool, dry and ventilated area away from heat sources and protected from light. Keep air contact to a minimum.				
Fire protection	Keep away from ignition courses and naked flames. Take precautions to avoid static discharge in working areas.				
<b>8. Exposure controls/Personal protection</b>					
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 and water after handling.				
<b>9. Physical and chemical properties</b>					
Colour	Colourless to pale yellow				
Appearance	Liquid				
Odour	Characteristic of plant				
Flash point °C	60				



Relative density d <sub>20</sub> <sup>20</sup>	0.9610 to 0.9770
Optical rotation @ 20°C	+11° to +24°
Refractive index @ 20°C	1.5280 to 1.5430
Specific gravity	0.95 – 0.97
Solubility in 80% ethanol @ 20°C	1+5 soluble: opalescence allowable
Solubility in vegetable oils	Soluble
Solubility in water	insoluble
Typical analysis of major components	§-pinne 2.16%: camphene 0.05% 2-pinene 0.18% Sabinene 0.07% 2-phellandrene 2.84% L-3-carene 0.055 limonene 3.38% k-phellandrene 0.94% Z-2-ocimene 0.22% E-2-ocimene 0.08% 3-terpinene 0.87% >-cymene 7.44% terpinolene 0.17% fenchone 17.40% fenchyl acetate 0.43% camphor 0.18% linalool 0.24% linalyl acetate 0.42% k-terpineol tr, terpinen-4-ol 0.07% methal chavivol 6.485 cis-antheole 0.48% tr-anthole 59.97% >anis aldehyde 1.21%
<b>10. Stability and reactivity</b>	
Reactivity	It presents no significant reactivity hazards, by itself or in contact with strong acids, alkalis or oxidising agents.
Decomposition	Liable to cause smoke and acrid fumes during combustion: carbon monoxide, carbon dioxide and other non-identified organic compounds may be formed.
<b>11. Toxicological information</b>	
<b>12. Ecological information</b>	
Biodegradability	Data not available
Precautions	Prevent surface contamination of soil, ground and surface water.
<b>13. Disposal considerations</b>	
Waste material	Avoid disposing to a drainage system and into the environment. Seek expert advice.
<b>14. Transport information</b>	
Road (ADR/RID)	-
Air (IATA/ICAO)	-
Sea (IMDG)	-
UN1993	-
<b>15 Regulatory information</b>	
Hazards	-
Symbols	-
Risk phases	-
Safety phases	-
<b>16. Other information</b>	
Concentrated % limits	-
<b>Packaging</b>	<b>Type and suitability</b>
Glass	Yes
Lacquer lined steel/tin	Yes
Aluminium	Yes
HPPE	No
F/HDPE	Yes
Other plastic	No
<b>Shelf life</b>	
Minimum 12 months when stored in the advised conditions	
<b>QC requirements</b>	
In line with general product specification. Always satisfy suitability for specific application. Retest after 12 months.	
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