



Plant's Power Inc
3-2700 St.Clair Ave west
Toronto, Ontario, M6N 1M2
Contact: 1-416-766-1254

MATERIAL SAFETY DATA SHEET

Fennel Oil

Section 1: Product and Company Identification

Product Name: Organic Sweet Fennel Oil
Botanical Name: *Foeniculum vulgare* Miller, *ssp. Dulce*
INCI Name: Foeniculum vulgare (Fennel) Oil
CAS No.: 8006-84-6

Contact information:

Plant's Power Inc 3-2700 St.Clair Ave west Toronto, Ontario M6N 1M2 Contact: 1-416-766-1254 http://www.PlantPower.ca contactus@plantpower.ca	24 HOUR EMERGENCY TELEPHONE NUMBER: (647)-427-4480
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Section 2: Composition and Information on Ingredients

Composition:
Name: Foeniculum vulgare (Fennel) Oil
CAS No.: 8006-84-6
% by Weight: 100

Composition	
Alpha-Pinene, 1-7%	CAS No 80-56-8 EC No: 201-291-9 Classification (EC 1272/2008) AT1, FL3, SCI2, SS1
Limone, 1.3-8%	CAS-No.: 5989-27-5 EC No.: 227-813-5

	Classification (EC 1272/2008) AH1, EHC1, FL3, SCI2, SS1
Methylchavicol, Max. 6%	CAS-N° 140-67-0, EC No.: 205-427-8 Classification (EC 1272/2008) FL4, ATO4 (1230), SCI3, SS1, CAR2, MUT2
Fenchon 3-15%	CAS-N° 7787-20-4 Classification (EC 1272/2008) ATO4 (1500), SCI3, EHA2, C2
Trans-Anethole, 70-80%	CAS-No 4180-23-8, EC No 224-052-0 Classification (EC 1272/2008) ATO 5(2700); SCI3; SS1, EHA2

Section 3: Hazards Identification

Label in accordance with (EC) No. 1272/2008



Signal Word: **DANGER**

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.
- H351: Suspected of causing cancer.

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.

Section 4: First Aid Measures

- Eyes: Flush with plenty of water or eye wash solution for 15 minutes. Get medical attention if irritation persists.
- Skin: Thoroughly wash the affected area with soap and water. Flush with large quantities of water. Seek medical attention if irritation persists.

Ingestion: Administer water or milk to dilute. Contact a physician or local poison control center immediately.

Inhalation: Remove to fresh air. Seek medical attention if necessary.

Section 5: Fire and Explosive

Flash Point (Method Used): 63 °C
Flammable Limits LEL: Not Established
UEL: Not Established

Auto Ignition Temperature: No information

Hazardous Combustion Products: None
Conditions Under Which
Flammability Could Occur: No information

Extinguishing Media: Dry Chemical
Carbon Dioxide
Foam
Note: Do not use water spray

Special Firefighting Procedures: Wear positive pressure, self-contained breathing apparatus and protective clothing. Avoid contact with skin and eyes.
Wear positive pressure, self-contained breathing apparatus and protective clothing. Avoid contact with skin and eyes.

Unusual Fire & Explosion Hazards: Not established

Section 6: Accidental Release Measures

Personal Protection: If in a confined area, NIOSH approved respiratory protection may be required.

Remove individuals if they do not have respiratory protection.

Environmental Protection: Notify authorities if large amounts of product enters sewer.

Methods for Cleaning Up: Remove unprotected persons.

Remove any source of flame or sparks.

Ventilate area.

Prevent entry into waterways.

Absorb onto an inert, absorbent substrate and sweep up.

Wash area with soap and water.

Section 7: Handling and Storage

Handling

Safe Handling: Wear safety glasses and chemical resistant gloves.

Keep away from oxidizing agents, excessive heat, light and sources of ignition.

Storage

Requirements for Storage Areas and Containers:	Store in a cool, dry location, in a sealed container in a well ventilated area.
Packaging:	HDPE or Aluminum Containers

Section 8: Exposure Controls/Personal Protection Engineering

Engineering Controls:	Safety showers and eye wash stations should be available near work areas. Provide adequate ventilation in work area.
Personal Protection	
Eye:	Splash goggles or face shield should be worn.
Skin/Body:	Lab coats and chemical resistant gloves (i.e. Nitrile gloves) should be worn.
Respiratory:	Not needed under normal conditions of use in a well ventilated area. Use adequate ventilation or NIOSH-approved respiratory devices as needed.
Ventilation:	Handle in well ventilated areas. Ventilation meeting ACGIH Standards should be employed.
Other:	Evaluate need based on application. Slip proof shoes may be worn where spills may occur.
Work/Hygiene Practice:	Use good personal hygiene practices. Limit exposure to product whenever possible. Wash contaminated clothing or shoes before each use.

Section 9: Physical and Chemical Properties

Physical State:	Liquid
Color:	Clear
Odor:	Characteristic of fennel, licorice
Specific Gravity @ 20°C:	0.953 – 0.973
Refractive Index @ 20°C:	1.532 – 1.543
Flash Point:	63 °C
Optical Rotation (°):	+12 to +24
Solubility in Water:	Insoluble

Section 10: Stability and Reactivity

Reactivity:	No dangerous reactions known.
Chemical Stability:	Product is stable at room temperature.
Possible Hazardous Reactions:	No dangerous reactions expected if used according to specifications.
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.

Hazardous Decomp. Products: None.

Section 11: Toxicological Information

Acute Toxicity: Acute toxicity

LD50 (oral) in mg/kg: 3800 (3430 - 4170)

LD50 (dermal) in mg/kg: > 5000

Section 12: Ecological Information

Prevent contamination of soil, ground and surface water. Biodegradability not determined.

Section 13: Disposal Considerations

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.

Section 14: Transport Information

UN No. Road: 3082

UN No. SEA: 3082

UN No. AIR: 3082

UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE LIQUID N.O.S.

Transport Hazard Class(es)

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

IMDG Class 9

ICAO Class/Division 9

Packing Group

ADR/RID/ADN Packing Group: III

IMDG Packing Group: III

ICAO Packing Group: III

Environmental Hazards

Environmentally Hazardous Substance/Marine Pollutant

Special Precautions for Users

EMS F-A-S-F.

Emergency Action Code 3Z.

Hazard No. (ADR) 90 Environmentally hazardous substance; miscellaneous dangerous substances.

Tunnel Restriction Code (E).

Section 15: Other Regulatory Information

Not available.

Section 16: Other Information

Disclaimer:

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