



Material Safety Data Sheet

SECTION 1.1 PRODUCT IDENTIFICATION

Product Name: Fennel Essential Oil

CAS #: 8006-84-6

EINECS #: 283-414-6

SECTION 1.2 COMPANY INFORMATION

Company: Nature's Fusions

Address: 57 N 1380 W, Orem, UT, 84057

Telephone No: 801-872-9500

24 HOUR EMERGENCY TELEPHONE NUMBER: (800) 222-1222 POISON CONTROL

SECTION 2.1 HAZARDS CLASSIFICATION

GHS-US Classification: Flammable Liquid 4
Skin Corrosion/Irritation 2
Carcinogenic 2
Germ Cell Mutagenicity 2
Aspiration Toxicity 1
Sensitization - Skin 1
Aquatic Acute Environment 1
Aquatic Chronic Environment 1

SECTION 2.2 HAZARDS IDENTIFICATION

Signal Word:

Danger

Hazard Pictograms:



Hazard Statement:

H226 Flammable liquid and vapor.
H227 Combustible liquid.
H304 May be fatal if swallowed and enters airways.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H341 Suspected of causing genetic defects.
H351 Suspected of causing cancer.
H410 Very toxic to aquatic life with long-lasting effects.

Precautionary Statement:

P101 If medical advice is needed, have product container or label at hand.
P202 Do not handle until all safety precautions have been read and understood.
P261 Avoid breathing dust/fumes/gas/mist/vapours/spray.
P262 Do not get in eyes, on skin, or on clothing.



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P264 Wash hands thoroughly after handling.
P272 Contaminated work clothing should not be allowed out of the workplace.
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P281 Use personal protective equipment as required.
P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P302+P352 IF ON SKIN: Wash with plenty of soap and water.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes.
Remove contact lenses if present and easy to do – continue rinsing.
P308+P313 If exposed: Call a POISON CENTER or doctor/physician.
P332+P313 If skin irritation occurs: Get medical advice/attention.
P333+P313 If skin irritation or a rash occurs: Get medical advice/attention.
P362 Take off contaminated clothing.
P405 Store locked up.
P501 Dispose of contents and container in accordance with local, regional, national and/or international regulation for hazardous wastes.

SECTION 2.3 OTHER HAZARDS IDENTIFICATION

Other Hazards: No additional information available.

SECTION 3. COMPOSITION

Product Name	CAS #	EC #	Concentration
Fennel Bitter	8006-84-6	283-414-6	100%

SECTION 4.1 NECESSARY FIRST AID MEASURES

Eye Contact: Flush eyes with water as a precaution.
Inhalation: If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
Ingestion: Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
Skin Contact: Wash off with soap and plenty of water. Consult a physician.

SECTION 4.2 SYMPTOMS

Eye Contact: No additional information available.
Inhalation: No additional information available.
Ingestion: No additional information available.
Skin Contact: No additional information available.

SECTION 4.3 OTHER FIRST AID MEASURES

Medical Attention/Special Treatment: Treat Symptomatically.

SECTION 5.1 EXTINGUISHING



Suitable Extinguishing media: For small fires: Alcohol Foam. Dry Chemical. Carbon Dioxide.
For large fires: Water – from as far away as possible.

Unsuitable Extinguishing media: None.

SECTION 5.2 SPECIAL HAZARDS

Special Hazards Arising from Chemical: Nature of decomposition products not known.

SECTION 5.3 FIRE FIGHTING MEASURES

Firefighter Instructions: No additional information available.

Protection during firefighting: Wear self-contained breathing apparatus for firefighting if necessary.

SECTION 6.1 ACCIDENTAL RELEASE MEASURES

Personal Precautions: Ensure adequate ventilation. Remove all sources of ignition. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

Protective equipment: Use personal protective equipment. Avoid breathing vapors, mist, or gas.

Environmental Precautions: Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

SECTION 6.2 ACCIDENTAL RELEASE CLEANING MEASURES

Methods and Material for Cleaning Up: Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations.

SECTION 7.1 PRECAUTIONS FOR HANDLING

Precautions for handling: Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.

SECTION 7.2 CONDITIONS FOR SAFE STORAGE

Conditions for safe storage: Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

SECTION 8.1 EXPOSURE AND ENGINEERING CONTROLS

PEL, ACGIH, TLV exposure limit: No additional information available.

Appropriate engineering controls: Showers. Eyewash stations. Ventilation system.



SECTION 8.2 PERSONAL PROTECTION/EQUIPMENT

Eye/Face Protection: Face shield and safety glasses. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).

Hand Protection: Wear protective gloves.

Skin and Body Protection: Impervious clothing, flame retardant antistatic protective clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory Protection: Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Environmental Exposure Control: Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

SECTION 8.3 ADDITIONAL INFORMATION

Other: No additional information available.

SECTION 9.1 PHYSICAL PROPERTIES

Appearance: Thin, clear to pale yellow liquid.

Odor: Top note with a medium aroma, Fennel Bitter Essential Oil has a similar to that of black licorice.

Odor Threshold: No data available.

Physical State: Liquid.

SECTION 9.2 CHEMICAL PROPERTIES



pH: No data available.
Melting Point/Freezing Point: 5° C
Boiling Point: 227° C
Flash Point: 60° C
Evaporation Rate: No data available.
Flammability (solid, gas): No data available.
Explosive limits: No data available.
Vapor Pressure: No data available.
Vapor Density: No data available.
Specific Gravity: 0.8770 – 0.920 @ 20° C (68° F)
Solubility: No data available.
Partition coefficient:
(n-octanol/water) No data available.
Autoignition Temp: No data available.
Decomposition Temp: No data available.
Viscosity: No data available.

SECTION 10. STABILITY AND REACTIVITY

Reactivity: No additional information available.
Chemical Stability: Stable under recommended storage conditions.
Hazardous Reactions: No data available.
Incompatible Materials: Strong oxidizing agents.
Hazardous Combustion
or Decomposition Products: No additional information available.

SECTION 11.1 ROUTES OF EXPOSURE

Inhalation: Refer to section 4.2
Skin Contact: Refer to section 4.2
Eye Contact: Refer to section 4.2
Ingestion: Refer to section 4.2

SECTION 11.2 RELATED SYMPTOMS

Inhalation: Refer to section 4.2
Skin Contact: Refer to section 4.2
Eye Contact: Refer to section 4.2
Ingestion: Refer to section 4.2

SECTION 11.3 OTHER TOXICOLOGICAL INFORMATION

Delayed/Chronic Effects: May cause allergic reactions on skin, may result in difficulty breathing.
Toxicity: LD50 Oral - Rat - 3,120 mg/kg
Carcinogenic: Not Carcinogenic.



SECTION 12.1 ECOLOGICAL INFORMATION

Eco-toxicity: No additional information available.
Persistence and Degradability: No additional information available.
Bio-accumulative: No additional information available.
Mobility in Soil: No additional information available.

SECTION 12.2 OTHER ECOLOGICAL INFORMATION

Other Adverse Effects: No additional information available.

SECTION 13. DISPOSAL CONSIDERATION

Waste Disposal Method: Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.
Contaminated Packaging Disposal Method: Dispose of as unused product.

SECTION 14. TRANSPORT INFORMATION

DOT Shipping (Land): Regulated
IATA Shipping (Air): Regulated
IMDG Shipping (Boat): Regulated. Marine Pollutant: Yes.
Proper Shipping Name: Environmentally Hazardous Substance, Liquid, N.O.S
UN #: 3082
Hazard Class: 9
Packaging Group: III

SECTION 15. REGULATORY INFORMATION

US Federal Regulations: Listed on the United States TSCA (Toxic Substances Control Act) inventory
International Regulations: Listed on the Canadian DSL (Domestic Substances List)

SECTION 16. OTHER INFORMATION

Health Hazard (HMIS): 2 Moderate Hazard
Flammability Hazard (HMIS): 2 Moderate Hazard
Physical Hazard (HMIS): 0 Minimal Hazard
Sara 313: None
California Proposition 65: This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm per the Safe Drinking Water and Enforcement Act of 1986.



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