

1. Product Name and Company Identification

Product Name:	Fennel essential oil
Product Use:	Food, pharmaceutical, cosmetics & personal care and aromatherapy industries
Company Name:	NatureXtracts, S.A.
Company Address:	Zona Franca Industrial, Plataforma 28, Pavilhão Industrial K - Módulo 2, 9200-047 Caniçal, Portugal
Date Issued:	01/07/2014
Emergency Telephone Number:	CIAV, Centro de Informação Antivenenos, Tel.: 808 250 143

2. Composition and Ingredient Information

Chemical Identity:	<i>Foeniculum vulgare</i> var. <i>dulce</i> essential oil
Composition:	Please see specific data sheet
Steam distilled essential oil:	100%
Hazardous Components:	No dangerous compounds according to Regulation (CE) No. 1907/2006.
Exposure Limits:	N/A
CAS#:	8006-84-6

3. Hazards Identification

Routes of Entry:	<ul style="list-style-type: none"> - Eyes - Skin - Ingestion - Inhalation
Eye Contact:	Moderate irritation may occur.
Skin Contact:	Irritation may occur.
Ingestion:	Not known
Inhalation:	Not Known

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.
Medical Conditions Generally	None known.
Aggravated by Exposure:	

5. Fire Fighting Measures

Flash Point (Method Used):	60 °C
Flammable Limits:	Not established
Auto Ignition Temperature:	No information
Hazardous Combustion Products:	None
Conditions Under Which Flammability Could Occur:	No information
Extinguishing Media:	<ul style="list-style-type: none"> - Dry Chemical - Carbon Dioxide - Foam
Special Firefighting Procedures:	Note: Do not use water spray
Unusual Fire & Explosion Hazards:	Not established

6. Accidental Release Measures (Steps for Spills)

Personal Protection:	<ul style="list-style-type: none"> - If in a confined area, 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:	<ul style="list-style-type: none"> - 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.

7. Handling and Storage

Safe Handling:	<ul style="list-style-type: none"> - Wear safety glasses and chemical resistant gloves; - Keep away from oxidizing agents, excessive heat, light and sources of ignition.
Requirements for Storage Areas and containers:	Store in a cool and dry location, in a sealed container in a well-ventilated area.
Packaging:	Amber glass containers

8. Exposure Control / Personal Protection

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 respiratory devices as needed.
Ventilation	Handle in well ventilated areas.

Other:	Evaluate need base 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.

9. Physical and Chemical Properties

Physical State:	Liquid
Color:	Pale yellow to brown
Odor:	Characteristic of fennel
Specific Gravity (20 °C):	0.953 – 0.973
Refractive Index (20 °C):	1.528 – 1.538
Flash Point:	60 °C
Boiling Point:	Not determined
Optical Rotation:	Not determined
Evaporation Rate:	Not determined
Solubility in Water:	Insoluble

10. Stability and Reactivity

Stability:	Stable
Conditions to Avoid:	None
Incompatibility (Materials to Avoid)	None
Hazardous Decomposition byproducts:	or None
Hazardous Polymerization:	Will not occur

11. Toxicological Information

Threshold limit value:	None established
Carcinogenicity:	None established
Acute Toxicity Data:	Oral LD ₅₀ : None established Dermal LD ₅₀ : None established Inhalation LD ₅₀ : None established Ingestion of large quantities: None established Inhalation: None established Skin Contact: Liquid may be irritating Eye Contact: Liquid may be irritating
Other Effects:	None established

12. Ecological Information

Biodegradability:	Not determined
Aquatic Toxicity:	Not determined
Bioaccumulation Potential:	Not determined
Precautions:	Prevent surface contamination of soil, ground & surface water

13. Disposal Considerations

Waste Disposal Methods:	Do not put into sewer lines. Dispose of according to local, state and federal regulations.
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14. Transport Information

DOT Classification:	Not regulated
Class/Division:	Not restricted
Proper Shipping Name:	NA
Label:	None
Packing Group:	NA
ID Number:	NA
Hazard:	NA

15. Regulatory Information

R-Phase:	NA
S-Phase:	NA

16. Additional Information

This information is provided for documentation purposes only.

The complete range of conditions or methods of use are beyond our control therefore we do not assume any responsibility and expressly disclaim any liability for any use of this product. Information contained herein is believed to be true and accurate however, all statements or suggestions are made without warranty, expressed or implied, regarding accuracy of the information, the hazards connected with the use of material or the results to be obtained from the use thereof. Compliance with all applicable federal, state, and local laws and local regulations remains the responsibility of the user.

This safety sheet cannot cover all possible situations which the user may experience during processing. Each aspect of your operation should be examined to determine if, or where, additional precautions may be necessary. All health and safety information contained in this bulletin should be provide to your employees or customers.