



MATERIAL SAFETY DATA SHEET

MSDS

FENNEL ESSENTIAL OIL

1. PRODUCT NAME AND COMPANY IDENTIFICATION

<b>Product Name:</b>	<b>FENNEL ESSENTIAL OIL</b>
<b>Product Use:</b>	Personal Care Formulations
<b>Company Name:</b>	Saffire Blue Inc.
<b>Company Address:</b>	1444 Bell Mill Road, Tillsonburg, ON N4G4G9 Canada
<b>Date Issued:</b>	01/28/2010
<b>Emergency Telephone Number:</b>	<b>Chemtrec Tel: (800) 262-8200</b>

2. COMPOSITION/INGREDIENT INFORMATION

<b>Chemical Identity:</b>	Foeniculum vulgare Oil
<b>Composition:</b>	
Steam distilled essential oil	100%
<b>Hazardous Components:</b>	None
<b>Exposure Limits:</b>	N/A
<b>CAS #:</b>	8006-84-6
<b>FEMA #:</b>	N/A

3. HAZARDS IDENTIFICATION

<b>Routes of Entry:</b>	<ul style="list-style-type: none"> <li>• Eyes</li> <li>• Skin</li> <li>• Ingestion</li> <li>• Inhalation</li> </ul>
<b>Eye Contact:</b>	Moderate irritation may occur.
<b>Skin Contact:</b>	Irritation may occur with prolonged or repeated exposure.
<b>Ingestion:</b>	Not known
<b>Inhalation:</b>	Not known

4. FIRST AID MEASURES

<b>Eyes:</b>	Flush with plenty of water or eye wash solution for 15 minutes. Get medical attention if irritation persists.
<b>Skin:</b>	Thoroughly wash the affected area with soap and water. Flush with large quantities of water. Seek medical attention if irritation persists.
<b>Ingestion:</b>	Administer water or milk to dilute. Contact a physician or local poison control center immediately.
<b>Inhalation:</b>	Remove to fresh air. Seek medical attention if necessary.
<b>Medical Conditions Generally Aggravated by Exposure:</b>	None known

## 5. FIRE FIGHTING MEASURES

<b>Flash Point (Method Used):</b>	63 °C
<b>Flammable Limits</b>	<b>LEL:</b> Not Established <b>UEL:</b> Not Established
<b>Auto Ignition Temperature:</b>	No information
<b>Hazardous Combustion Products:</b>	None
<b>Conditions Under Which Flammability Could Occur:</b>	No information
<b>Extinguishing Media:</b>	<ul style="list-style-type: none"><li>• Dry Chemical</li><li>• Carbon Dioxide</li><li>• Foam</li></ul>
<b>Special Firefighting Procedures:</b>	<b>Note:</b> Do not use water spray <ul style="list-style-type: none"><li>• Wear positive pressure, self-contained breathing apparatus and protective clothing. Avoid contact with skin and eyes.</li></ul>
<b>Unusual Fire &amp; Explosion Hazards:</b>	Not established

## 6. ACCIDENTAL RELEASE MEASURES (STEPS FOR SPILLS)

<b>Personal Protection:</b>	<ul style="list-style-type: none"><li>• If in a confined area, NIOSH approved respiratory protection may be required.</li><li>• Remove individuals if they do not have respiratory protection.</li></ul>
<b>Environmental Protection:</b>	Notify authorities if large amounts of product enters sewer.
<b>Methods for Cleaning Up:</b>	<ul style="list-style-type: none"><li>• Remove unprotected persons.</li><li>• Remove any source of flame or sparks.</li><li>• Ventilate area.</li><li>• Prevent entry into waterways.</li><li>• Absorb onto an inert, absorbent substrate and sweep up.</li><li>• Wash area with soap and water.</li></ul>

## 7. HANDLING AND STORAGE

### Handling

<b>Safe Handling:</b>	<ul style="list-style-type: none"><li>• Wear safety glasses and chemical resistant gloves.</li><li>• Keep away from oxidizing agents, excessive heat, light and sources of ignition.</li></ul>
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### Storage

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

## 8. EXPOSURE CONTROL/PERSONAL PROTECTION

<b>Engineering Controls:</b>	Safety showers and eye wash stations should be available near work areas. Provide adequate ventilation in work area.
<b>Personal Protection</b>	
<b>Eye:</b>	Splash goggles or face shield should be worn.
<b>Skin/Body:</b>	Lab coats and chemical resistant gloves (i.e. Nitrile gloves) should be worn.
<b>Respiratory:</b>	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.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

**Physical State:** Liquid

**Color:** Pale yellow to brown

**Odor:** Characteristic of fennel, licorice

**Specific Gravity:** Not Determined

**Refractive Index:** Not Determined

**Flash Point:** 63 °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 or Byproducts:** None

**Hazardous Polymerization:** Will Not Occur

#### 11. TOXICOLOGICAL INFORMATION

**Threshold Limit Value (ACGIH TLV):** None established

**Threshold Limit Value (OSHA PEL):** None established

**Carcinogenicity:** NTP Monograph: None established  
IARC Monograph: None established

**Acute Toxicity Data:** Oral LD50: None established  
Dermal LD50: None established  
Inhalation LC50: None established

**Health Hazards (Acute and Chronic):** 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.

### 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 the 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 provided to your employees or customers.