

**SECTION: 1.1 PRODUCT IDENTIFICATION** 

**Product Name:** Tea Tree (Chinese) Essential Oil

**Botanical Name:** *Melaleuca alternifolia* 

**Synonyms:** *Melaleuca linariifolia var. alternifolia, Melaleuca alternifolia Cheel,* 

Melaleuca dissiflora var. alternifolia

INCI Name: Melaleuca alternifolia (tea tree) leaf oil

CAS #: 68647-73-4 Country of Origin: China

**SECTION: 1.2 COMPANY IDENTIFICATION** 

**Company:** Saffire Blue Inc.

1444 Bell Mill Road

Tillsonburg, ON N4G4G9 Canada

Tel: 519-286-0295

24 HOUR EMERGENCY TELEPHONE NUMBER: (613)-996-6666 CANUTEC

**SECTION: 2. COMPOSITION / INFORMATION INGREDIENTS** 

Contents: Terpinen-4-ol, cineol, terpinene, pinene, sabinene, cymene, limonene, terpinolene, terpineol,

aromadendrene, cadinene, globulol, viridifloral.

Terpinen-4-ol: 30 - 45 %Trace - 3.5 % Sabinene: 1,8-Cineol: Trace - 10 % Terpinolene: 1.5 - 5%γ-Terpinene: 10 - 28 %Limonene: 0.5 - 4%α-Terpinene: 5 – 13 % *p*-Cymene: 0.5 - 12 %

 $\alpha$ -Pinene: 1-6%

**SECTION: 3. HAZARDS IDENTIFICATION** 

N/A

Medical Information: N/A

**SECTION: 4. FIRST AID MEASURES** 

Eye Contact: Contact with eyes can produce burning sensation. Irrigate with water immediately,

continue flushing eyes with water for 15 minutes. Seek medical attention if irritation

persists.

**Inhalation:** Remove to fresh air. Give oxygen if breathing is labored and seek medical advice.

Avoid casual breathing. Signs of over exposure are dizziness and nausea.

**Ingestion:** Rinse mouth; dilute with milk or water and consult a physician immediately. Do not

induce vomiting. Never-give anything by mouth if victim is unconscious, is rapidly-

losing or is Convulsing.

**Skin Contact:** Skin contact can produce irritation, or itching of the skin. Remove contaminated

clothing Wash with soap and plenty of water. Seek medical attention if irritation

persists.

**SECTION: 5. FIRE FIGHTING MEASURES** 

Flash Point: 57°C

**Extinguishing media:** Carbon Dioxide, dry chemical or foam. Closed containers may build

up pressure at elevated temperature

**Special Procedures:** Determine the need to evacuate or isolate the area according to your



local emergency plan.

**Unusual Firefighting Hazards:** 

None identified.

**Protective Equipment:** 

Self-contained breathing apparatus and protective clothing should be

worn when fighting fires involving essential oils or chemicals.

**Combustion Product:** Carbon Monoxide, Carbon Dioxide

SECTION: 6. ACCIDENTAL RELEASE MEASURES

**Personal Precautions:** Use of self-contained breathing apparatus is recommended for any

major chemical spill. Refer also to section 8.

**Safety Precautions:** Eliminate all ignition sources. Ventilate area. Determine the need to

evacuate or isolate the area according to your local emergency plan.

**Environmental Precautions:** Keep away from drains, surface and ground water. Report spills to

appropriate Authorities if required.

Methods For Cleaning Up: Contain and collect with inert absorbent material and place in suitable

container for disposal. Comply with all federal, state, and local regulation. Wipe small spills with cloth. Clean with hot water and

detergent.

**SECTION: 7. HANDLING AND STORAGE** 

**Handling:** Avoid inhalation and contact with skin and eyes. Good personal

hygiene practices should be used. Wash after any contact, before breaks and meals, and at the end of the work period. Contaminated

clothing and shoes should be cleaned before re-use.

**Storage:** Containers should be kept closed in order to minimize contamination.

Store in a cool, dry, well ventilated place protected from light. Keep away from extreme heat and from freezing conditions and away from all sources of ignition. Make sure the material does not come into

contact with substances listed as: "Materials to Avoid".

SECTION: 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

**Eyes Protection:** The use of safety glasses is recommended. If a material is to be

handled in a manner where splashing may occur, the use of splash

goggles or face shield is recommended

**Respiratory Protection:** In well- ventilated areas, respiratory protection is not normally

required. In confined, poorly ventilated areas the use of "NIOSH" approved respiratory protection normally required (use only if trained

in proper use and with acceptable oxygen level).

Protective Gloves: Using chemical resistant gloves is recommended.
Protective Clothing: Using chemical resistant clothing is recommended.

**Protective Equipment:** An eyewash fountain and / or safety shower should be available in the

work area. Acceptable industrial hygiene practices should be

maintained.

**Note:** These precautions are for room temperature handling. Use at elevated

temperature or aerosol / spray applications may require additional

precautions

SECTION: 9. PHYSICAL AND CHEMICAL PROPERTIES



**Appearance:** Colorless to pale yellow clear liquid. **Odor:** Characteristic warm, spicy odor.

**Solubility:** Soluble in alcohol and oils. Insoluble in water.

 Specific Gravity:
  $0.885 - 0.906 @ 20^{\circ}C$  

 Optical Rotation:
  $+5.0 - +15 @ 25^{\circ}C$  

 Refractive Index:
  $1.4750 - 1.4850 @ 20^{\circ}C$ 

**Extraction Method:** Steam distillation of the fresh leaves.

**SECTION: 10. STABILITY AND REACTIVITY** 

**Stability:** Chemically stable. This material presents no significant reactivity

hazard.

**Conditions to Avoid:** Avoid sparks, flame and excessive heat.

Materials to Avoid: Strong oxidizing agents.

Hazardous Polymerization:Will not occur.Hazardous Combustion orNone known.

**Decomposition Products:** When heated to decomposition produces acid fumes and carbon

monoxide smoke.

SECTION: 11. TOXICOLOGICAL INFORMATION

**Inhalation**: Inhalation of high concentrations of vapor may result in irritation of

eyes, nose and throat, headache, nausea, and dizziness.

**Skin Contact:** Repeated or prolonged contact can cause redness, irritation and scaling

of skin (Dermatitis). Adverse skin effects should be prevented by

normal care and personal hygiene

**Eye Contact:** May irritate eyes.

**Ingestion**: Low order toxicity causing irritation of the stomach and intestines

which results in nausea and vomiting.

**Medical Conditions Aggravated** 

**by Exposure:** May aggravate dermatitis, psoriasis and other skin conditions.

**Chronic Toxicity:** May cause allergic reactions on skin

**Carcinogenicity Data**: None of the components of this material are listed as a carcinogen.

**Reproductive Toxicity**: No adverse effects on reproduction are known.

**Acute Toxicity Values:** No data is currently available.

### **SECTION: 12. ECOLOGICAL INFORMATION**

Very toxic to aquatic organism may cause long-term adverse effects in the aquatic environment. Avoid any pollution of ground, surface or underground water.

# **SECTION: 13. DISPOSAL CONSIDERATION**

Dispose of in accordance with local, provincial and federal regulations. Check with disposal expert to ensure compliance.

## **SECTION: 14. TRANSPORT INFORMATION**

**US DOT Shipping Description:** 

UN No. 1993

**Proper Shipping Name:** Liquid aromatic extract.

Packaging Group: III



Class:

**IATA Shipping (Air):** 

UN No. 1993

**Proper Shipping Name:** Liquid aromatic extract.

Packaging Group: III Class: 3

**IMDG Shipping Description:** 

UN No. 1993

**Proper Shipping Name:** Liquid aromatic extract.

Packaging Group: III Class: 3

#### **SECTION: 15. REGULATORY INFORMATION**

WHMIS (Canada): N/A

**HMIS (USA):** Health Hazard -N/A Fire Hazard -N/A Reactivity -N/A

**SARA 302/ SARA 313:** None

California Proposition 65:

This product does not contain chemical listed per the Safe Drinking

Water and Enforcement Act of 1986

**EU Labeling:** R10 Flammable.

Xn R22 Harmful if swallowed. Xi R38 Irritating to skin

S36/37/38 Wear suitable protective clothing, gloves and eye/face protection.

### **SECTION: 16. OTHER INFORMATION**

Revision Date: May 12, 2014.

#### **SECTION: 17. DISCLAIMER**

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### **CERTIFICATE OF ANALYSIS**

**Product:** Tea Tree (Chinese) Essential Oil

**Lot No.:** 11253-A21/C21 **Best Before:** December, 2015

Store in air tight container; in a cool dry area; away from direct sunlight.

<b>Properties</b>	<b>Specifications</b>	Results
Appearance:	Colorless to pale yellow clear liquid.	Complies
Odor:	Characteristic warm, spicy odor.	Complies
Solubility:	Soluble in alcohol and oils. Insoluble in water.	Complies
Specific Gravity:	0.885 – 0.906 @ 20°C	0.8938
<b>Optical Rotation:</b>	+5.0 - +15 @ 25°C	+6°
Refractive Index:	1.4750 – 1.4850 @ 20°C	1.4771
Terpinen-4-ol:	≥ 30 %	41.04

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