



**MATERIAL SAFETY DATA SHEET**

**SECTION: 1.1 PRODUCT IDENTIFICATION**

**Product Name:** Frankincense (*Carterii*) Essential Oil  
**Botanical Name:** *Boswellia carterii*  
**Synonyms:** Olibanum oil  
**INCI Name:** Boswellia carterii oil  
**CAS #:** 8016-36-2  
**Country of Origin:** Dubai

**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:**  $\beta$ -pinene, 1-limonene,  $\alpha$ -pinene,  $\alpha$ -thujene, phellandrene, para-cymene, germacrene.

**SECTION: 3. HAZARDS IDENTIFICATION**

Xn Harmful  
R10 Flammable  
R65 Harmful. May cause lung damage if swallowed.

**SECTION: 4. FIRST AID MEASURES**

**Eye Contact:** 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.  
**Ingestion:** Rinse mouth; dilute with water and consult a physician immediately. Never-give anything by mouth if victim is unconscious, is rapidly-losing consciousness or is convulsing.  
**Skin Contact:** Remove contaminated clothing Wash with soap and plenty of water. Seek medical attention if irritation occurs.

**SECTION: 5. FIRE FIGHTING MEASURES**

**Flash Point:** 51°C.  
**Extinguishing media:** Carbon Dioxide, dry chemical or foam to the base of the flame. DO NOT use direct water jet on burning material. 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.  
**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



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**SECTION: 6. ACCIDENTAL RELEASE MEASURES**

<b>Personal Precautions:</b>	Use of self-contained breathing apparatus is recommended for any major chemical spill. Refer also to section 8.
<b>Safety Precautions:</b>	Eliminate all ignition sources. Ventilate area. Determine the need to evacuate or isolate the area according to your local emergency plan.
<b>Environmental Precautions:</b>	Keep away from drains, surface and ground water. Report spills to appropriate Authorities if required.
<b>Methods For Cleaning Up:</b>	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**

<b>Handling:</b>	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.
<b>Storage:</b>	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**

<b>Eyes Protection:</b>	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
<b>Respiratory Protection:</b>	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).
<b>Protective Gloves:</b>	Using chemical resistant gloves is recommended.
<b>Protective Clothing:</b>	Using chemical resistant clothing is recommended.
<b>Protective Equipment:</b>	An eyewash fountain and / or safety shower should be available in the work area. Acceptable industrial hygiene practices should be maintained.

**SECTION: 9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>Appearance:</b>	Colorless to pale yellow liquid.
<b>Odor:</b>	Characteristic warm, spicy balsamic incense-like aroma
<b>Solubility:</b>	Soluble in alcohol and oils. Insoluble in water.
<b>Specific Gravity:</b>	0.820 – 0.915 @ 20°C
<b>Optical Rotation:</b>	-20.0 – +10 @ 20°C
<b>Refractive Index:</b>	1.400 – 1.565 @ 20°C
<b>Extraction Method:</b>	Steam distilled.

**SECTION: 10. STABILITY AND REACTIVITY**

<b>Stability:</b>	Chemically stable. This material presents no significant reactivity hazard.
<b>Conditions to Avoid:</b>	Avoid sparks, flame and excessive heat.



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Materials to Avoid: Strong oxidizing agents.
Hazardous Polymerization: Will not occur.
Hazardous Combustion or: Carbon monoxide, carbon dioxide and other dangerous organic compounds may be formed.
Decomposition Products: When heated to decomposition acrid fumes may be formed.

SECTION: 11. TOXICOLOGICAL INFORMATION

Inhalation: Inhalation of high concentrations of vapor may result in irritation of eyes, nose and throat.
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: No Known toxicity. Avoid use during pregnancy.

SECTION: 12. ECOLOGICAL INFORMATION

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

Land transport ADR/RID (cross border):

UN #: 1993
ADR/RID class: 3 (Fl) Flammable Liquids
Danger code: 30
Packaging Group: III
Hazard label: 3
Description of goods: UN 1993 Flammable Liquid, NOS (alpha Pinene, 3,7,7-Trimethylbicyclo[4.1.0]hept-3-ene)

Air Transport ICAO-TI and IATA Shipping (Air):

UN #: 1993
Proper Shipping Name: Flammable Liquid, NOS (alpha Pinene, 3,7,7-Trimethylbicyclo[4.1.0]hept-3-ene)
ICAO/IATA Class: 3
Packaging Group: III
Environmental hazards: Product contains hazardous substances: Camphene, Limonene

Marine transport IMDG:

UN #: 1993
Proper Shipping Name: Flammable Liquid, NOS (alpha Pinene, 3,7,7-Trimethylbicyclo[4.1.0]hept-3-ene)
Class: 3



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Packaging Group: III  
Marine Pollutant: yes

**SECTION: 15. REGULATORY INFORMATION**

**EU Labeling:** Xn - Harmful.  
R 10 - Flammable.  
R 65 – Harmful. May cause lung damage if swallowed.

**SECTION: 16. OTHER INFORMATION**

**Revision Date:** May 15, 2013

**SECTION: 17. DISCLAIMER**

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SAFFIRE BLUE INC.

## CERTIFICATE OF ANALYSIS

**Product:** Frankincense (Carterii) Essential Oil  
**Lot No.:** 11298-A02  
**Best Before:** February, 2017  
Store in air tight container; in a cool dry area; away from direct sunlight.

<u>Properties</u>	<u>Specifications</u>	<u>Results</u>
<b>Appearance:</b>	Colorless to pale yellow liquid.	Complies
<b>Odor:</b>	Characteristic warm, spicy balsamic incense-like aroma	Complies
<b>Solubility:</b>	Soluble in alcohol and oils. Insoluble in water.	Complies
<b>Specific Gravity:</b>	0.820 – 0.915 @ 20°C	Complies
<b>Optical Rotation:</b>	-20.0 – +10 @ 20°C	Complies
<b>Refractive Index:</b>	1.400 – 1.565 @ 20°C	Complies

### DISCLAIMER:

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