

SECTION: 1.1 PRODUCT IDENTIFICATION

Product Name: Wintergreen Oil
Botanical Name: Gaultheria procumbens

Synonym: Oil of Wintergreen, Gaultheria oil, Teaberry Oil

Chemical Formula: $C_8H_8O_3$

INCI Name: Gaultheria procumbens (wintergreen) leaf oil

CAS# 68917-75-9 or 119-36-8

County 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: Methyl salicylate, safrole, linalool, cineole, pinene, gaultherilene Toxicological Data on Ingredients: Wintergreen Oil: ORAL (LD50); Acute; 887 mg/kg[Rat]

SECTION: 3. HAZARDS IDENTIFICATION

Methyl salicylate – toxin

Medical Information: Repeated or prolonged exposure to the substance can produce target organs damage

SECTION: 4. FIRST AID MEASURES

Eye Contact: Remove contact lenses. Immediately flush eyes with water and continue

to flush for 15 minutes. Seek medical attention if irritation occurs.

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

medical advice. Obtain medical advice immediately.

Ingestion: Rinse mouth; Dilute with water and consult a physician immediately. Do

not induce vomiting. Never give anything by mouth to a victim who is

unconscious, is rapidly-losing consciousness or is convulsing.

Skin Contact: Remove contaminated clothing and shoes, wash with soap and plenty of

water. Seek medical attention if irritation occurs. For serious skin contact, wash with disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek immediate medical attention.

SECTION: 5. FIRE FIGHTING MEASURES

Flash Point: 101°C Closed Cup. May be combustible at high temperatures.

Auto Ignition Temperature: 850°C

Extinguishing media: For SMALL FIRES use dry chemical powder. For LARGE FIRES use

water spray, fog or foam. Do not use direct water jet. 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. If possible containers should be cooled with a

water spray.

Firefighting Hazards: Slightly flammable to flammable in presence of open flames and sparks

of heat. Non-flammable in presence of shocks.

Protective Equipment: Self-contained breathing apparatus and protective clothing should be

worn when fighting fires involving essential oils or chemicals.

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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 and avoid inhalation of

vapors. 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: For SMALL SPILLS absorb with inert absorbent material and place in

suitable container for disposal. For LARGE SPILLS absorb with inert absorbent material and place in suitable container for disposal. Finish cleaning up by spreading water on the contaminated surface and allow evacuating through the sanitary system. Comply with all federal, state,

and local regulation.

SECTION: 7. HANDLING AND STORAGE

Handling: Keep locked up. Measures should be taken to prevent material from

being splashed into eyes and on the skin. This should include the wearing of eye shields and protective clothing. Smoking should not be permitted in areas where the product is being handled. Spontaneous combustion, of product soaked rags, has been known to occur.

Storage: Containers should be kept sealed 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. Check quality before use if stored for more than 6

months.

SECTION: 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Eyes Protection: The use of splash goggles is recommended.

Respiratory Protection: An approved / certified respirator is recommended. **Protective Gloves:** Using chemical resistant gloves is recommended.

Protective Clothing: Use of a lab coat is recommended.

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

work area. Provide adequate ventilation; use local exhaust fan if

necessary.

SECTION: 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Colorless to pale yellow, clear liquid. **Odor:** Characteristic intense sweet woody odor.

Solubility: Soluble in diethyl ether. Very slightly soluble in cold water. Solubility in

water: 0.74%

Specific Gravity: 1.16 -1.195 @ 25°C **Refractive Index:** 1.5230 - 1.5430 @ 20°C **Extraction Method:** Steam distillation of leaves.

SECTION: 10. STABILITY AND REACTIVITY

Stability: Chemically stable. This material presents no significant reactivity



hazard.

Open flames, excessive heat and other sources of ignition. **Conditions to Avoid:**

Materials to Avoid: Strong oxidizing agents, acids and alkalis. May be combustible at high temperatures. **Hazardous Polymerization:**

Special remarks on reactivity: Sensitive to light. Decomposed by alkalis to form methyl alcohol and

salicylate.

SECTION: 11. TOXICOLOGICAL INFORMATION

Inhalation: May cause respiratory track irritation. **Skin Contact:** Direct contact may cause irritation of skin.

Eve Contact: Causes irritate eyes.

Ingestion: May be harmful if swallowed. May cause gastrointestinal tract irritation

> with nausea, vomiting diarrhea, gastric ulceration, heartburn, dyspepsia. May affect behavior/ central nervous system, respiration, ears, eyes and

blood

Chronic Potential Health Skin: Prolonged or repeated skin contact may cause dermatitis.

Ingestion: Prolonged or repeated ingestion may affect the urinary system **Effects:**

(renal failure), heart, metabolism and liver.

Inhalation: Prolonged or repeated inhalation may affect the blood

(changes in the red and white blood cell count)

Mutagenic for bacteria and / or yeast. May cause damage to the **Mutagenic Effects:**

following organs: kidneys, liver, heart, central nervous system.

Chronic Effects on Humans: Acute oral toxicity (LD50):887 mg/kg [Rat]

LDL(Lowest Published Lethal Dose) **Toxicity to Animals:**

> LDL[Human] - Route: Oral: Dose: 506mg/kg LDL[Man] - Route: Oral: Dose: 101 - 1329mg/kg LDL[Woman] - Route: Oral: Dose: 355mg/kg LDL[Infant] – Route: Oral: Dose: 480mg/kg LDL[Child] - Route: Oral: Dose: 288 - 700mg/kg

Special Remarks on Toxicity

to Animals:

May cause adverse reproductive effects and birth defects. Passes the

placenta barrier.

Reproductive Toxicity: May cause adverse reproductive effects and birth defects. Passes the

placenta barrier.

SECTION: 12. ECOLOGICAL INFORMATION

No ecotoxicologic information available at this time. BOD and COD information unavailable.

Products of Biodegradation: Long term products may arise. The products of degradation are much less toxic than the product itself.

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

Not regulated **US DOT Shipping (Land): IATA Shipping (Air):** Not regulated **IMDG Shipping (Marine):** Not regulated

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SECTION: 15. REGULATORY INFORMATION

WHMIS (Canada): Class D-2A: Material causing other toxic effects(VERY TOXIC)

HMIS (USA): Health Hazard – 2 Fire Hazard – 1 Reactivity – 0 Personal

Protection - h

NFPA (USA): Health -1 Flammability -1 Reactivity -0

DSCL (EEC): R22 Harmful if swallowed.

R36/38 Irritating to eyes and skin.
S2 Keep out of reach of children
S24/25 Avoid contact with eyes and skin

S26 In case of contact with eyes, rinse immediately with

plenty of water and seek medical advice.

S46 If swallowed, seek medical advice immediately and

show container or label.

SECTION: 16. OTHER INFORMATION

Revision Date: May 12, 2014

SECTION: 17. DISCLAIMER

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CERTIFICATE OF ANALYSIS

Product: Wintergreen Essential Oil

Lot No.: 11152-A17/C17 **Best Before:** November, 2014

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

Specifications Properties Results

Colorless or slight-yellowish clear **Appearance:** liquid.

Complies

Odor: Strongly aromatic with a sweet

characteristic odor.

Complies

Complies

1.1827

Insoluble in water. **Solubility:**

Specific Gravity: 1.160 -1.195 @ 25°C

Refractive Index: 1.523 – 1.543 @ 20°C 1.5366

Optical Rotation: -1 to +1 @ 20°C -0.2

Methyl Salicylate: 99.15% \geq 97.0%

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