

SECTION: 1.1 PRODUCT IDENTIFICATION

Product Name: Orange 5 Fold Essential Oil

Botanical Name: Citrus sinensis L.

Synonyms: Citrus aurantium var. sinensis; Citrus macracantha, Citrus sinensis x

> Poncirustrifoliata, Citrus aurantium L. var. sinensis L., Aurantium sinense (L.) Mill., Citrus aurantium L. subsp. sinensis (L.) P. Fourn., Citrus aurantium L., Citrus sinensis

var. dulcis

INCI Name: Citrus sinensis dulcis (orange) peel oil

CAS #: 68606-94-0

Country of Origin: Italy

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: d-limonene, α-pinene, myrcene, linalool, decanal, citronellal

SECTION: 3. HAZARDS IDENTIFICATION

N/A

Medical Information: N/A

SECTION: 4. FIRST AID MEASURES

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

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.

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

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: 47°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

Eves 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: Dark orange to golden brown liquid.

Odor: Characteristic sweet orange citrus odor.

Soluble in alcohol and oils. Insoluble in water.

Specific Gravity: 0.840 – 0.860 @ 25°C



Optical Rotation: +95 - +99 @ 20°C **Refractive Index:** 1.477 - 1.480 @ 20°C

d-Limonene: > 80 %

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 or** None 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 insure compliance

SECTION: 14. TRANSPORT INFORMATION

ADR Shipping Description:

UN #: 1169

Proper Shipping Name: Extracts, Aromatic, Liquid

Class: 3 Packaging Group: III

IATA Shipping (Air):

UN #: 1169

Proper Shipping Name: Extracts, Aromatic, Liquid



Class: 3 Packaging Group: III

IMO Shipping Description:

UN #: 1169

Proper Shipping Name: Extracts, Aromatic, Liquid

Class: 3
Packaging Group: III
Marine Pollutant: yes

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

R38 Irritating to skin

R43 May cause sensitisation by skin contact

R 50/53: Very toxic to aquatic organism, may cause long term adverse effects in

the aquatic environment

R 65: Harmful: may cause lung damage if swallowed

S 24: Avoid contact with the skin

S 37: Wear suitable gloves

S 61: Avoid release to the environment. Refer to special instructions/

material safety data sheets

S62: If swallowed, do not induce vomiting: seek medical advise

immediately and show this container or label.

SECTION: 16. OTHER INFORMATION

Revision Date: September 25, 2013

SECTION: 17. DISCLAIMER

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CERTIFICATE OF ANALYSIS

Product: Orange 5 Fold Essential Oil

Lot No.: 11223-A33, B33, C33, D33

Best Before: January, 2015

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

Properties	Specifications	Results
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Appearance:	Dark orange to golden brown liquid.	Complies
Odor:	Characteristic sweet orange citrus odor.	Complies
Solubility:	Soluble in alcohol and oils. Insoluble in water.	Complies
Specific Gravity:	0.840 – 0.860 @ 15°C	0.8605
Optical Rotation:	+95 - +99 @ 20°C	91.10
Refractive Index:	1.477 – 1.480 @ 20°C	1.4768
Aldehydes	-	2.58%
Limonene:	-	93%

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CERTIFICATE OF ANALYSIS

Product: Orange 5 Fold Essential Oil

Lot No.: 11223-A34, B34, C34

Best Before: March, 2015

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

Properties	Specifications	Results
Appearance:	Dark orange to golden brown liquid.	Complies
Odor:	Characteristic sweet orange citrus odor.	Complies
Solubility:	Soluble in alcohol and oils. Insoluble in water.	Complies
Specific Gravity:	0.840 – 0.860 @ 15°C	0.8628
Optical Rotation:	+95 - +99 @ 20°C	88.30
Refractive Index:	1.477 – 1.480 @ 20°C	1.4769
Aldehydes	-	2.68%
Limonene:	-	93%

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