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# MATERIAL SAFETY DATA SHEET **GERANIUM ESSENTIAL OIL**

**MSDS** 

1. PRODUCT NAME AND COMPANY IDENTIFICATION

**Product Name:** GERANIUM ESSENTIAL OIL **Product Use:** Personal Care Formulations

Saffire Blue Inc. **Company Name:** 

**Company Address:** 1444 Bell Mill Road, Tillsonburg, ON N4G4G9 Canada

Date Issued: 07/01/2011

**Emergency Telephone Number:** Chemtrec Tel: (800) 262-8200

2. COMPOSITION/INGREDIENT INFORMATION

Essential Oil Type of Product:

Natural Complex Substance (100% Pure and Natural)

Composition:

Steam distilled essential oil of

Geranium (Pelargonium graveolens):

Substances with Limit Values for

**Professional Exposure:** 

Not regulated

100% by weight

LD50 Oral [Rat]: >5,000 mg/kg **Toxicological Data:** 

LD50 Dermal [Rabbit]: > 2,500 mg/kg

CAS TSCA #: 8000-46-2 CAS EINECS #: 90082-51-2 EINECS (EC) #: 290-140-0

CoE #: 324n FEMA #: 2508

3. HAZARDS IDENTIFICATION

**Classification System:** 

Xn: Harmful Main Hazards:

N: Dangerous for Environment

R38: Irritating to Skin

R41: Risk of Serious Damage to Eyes

Risks to Human Health and R43: May Cause Sensitization by Skin Contact

**Environment:** R51/53: Toxic to Aquatic Organisms, May Cause Long-Term

Adverse Effects in the Aquatic Environment

R65: Harmful: May Cause Lung Damage if Swallowed

In accordance with the directives 67/548/EEC, 1999/45/EC and its annexes as well as the Code of Practice EFFA (1) in its current version. Also taken into account is guidance from specialized publications and

information held by the company.

See the recommendations regarding the storage of classified Other Dangers:

products.

4. FIRST AID MEASURES

Ingestion:

Remove lenses if applicable. Flush with plenty of vegetable oil holding lids apart. Get medical attention if irritation persists or if a Eyes:

skin lesion is visible.

Remove contaminated clothing. Thoroughly wash the affected area with soap and water. Flush with large quantities of water. Cover Skin:

with emollient or pure vegetable oil. Seek medical attention if

irritation persists.

Rinse mouth with water. Do not induce vomiting. Loosen tight clothing such as a collar, tie, belt or waistband. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek medical attention or contact local poison control center immediately.

Remove to fresh air. Seek medical attention if necessary.

Serious Inhalation:

Inhalation: Loosen tight clothing such as a collar, tie, belt or waistband. If

breathing is difficult, administer oxygen. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek medical

attention.

**Medical Conditions Generally** Aggravated by Exposure:

No information

5. FIRE FIGHTING MEASURES

**Special Firefighting Procedures:** 

Flash Point: >85° C

LEL: Not Established Flammable Limits **UEL:** Not Established

**Auto Ignition Temperature:** No information

CO2, CO, irritating smoke and unidentified organic compounds **Hazardous Combustion Products:** 

may be formed during combustion.

Dry Chemical Carbon Dioxide

Foam **Extinguishing Media:** 

**Note:** Do not use water spray except to cool containers

Wear positive pressure, self contained breathing apparatus.

Wear protective clothing to prevent contact with skin and eyes.

Remove containers from fire area.

Spray extinguishing media directly into the base of the flames.

Water is unsuitable for use on burning materials but may be

used to cool containers exposed to heat.

**Unusual Fire & Explosion Hazards:** None known

# 6. ACCIDENTAL RELEASE MEASURES (STEPS FOR SPILLS)

Chemical splash goggles should be worn. **Personal Protection:** 

If in a confined area, a certified/approved vapor respirator

should be used.

Remove individuals if they do not have respiratory/dust

protection.

Wear protective clothing and chemical resistant gloves.

**Environmental Protection:** Notify authorities if large amounts of product enters sewer.

- Remove any source of flame or sparks.
- Ventilate area
- Prevent liquid from entering the sewers.
- Recover spilled material with pump or absorb onto an inert, absorbent substrate and sweep up.
- Dispose of materials used to absorb spill in accordance with regulations.
- Wash area with soap and water.

Note: Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product

## 7. HANDLING AND STORAGE

Handling

Clean Up:

- Wear safety glasses and chemical resistant gloves.
- Keep away from oxidizing agents, excessive heat, light and sources of ignition.

Safe Handling:

During the incorporation of the product, it must be held with relatively low temperatures. In the event of need for rise in temperature, it must be limited to as short a time as possible. Do no inhale hot vapors.

Storage

Requirements for Storage Areas and

Containers:

Store in a cool, dry location, in a sealed container in a well ventilated area away from sources of ignition.

#### 8. EXPOSURE CONTROL/PERSONAL PROTECTION

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors to a minimum. **Engineering Controls:** 

Ensure that eyewash stations and safety showers are proximal

to the work-station location.

**Personal Protection** 

Chemical splash goggles or face shield should be worn. Eve:

Skin/Body: Lab coats, boots and chemical resistant gloves should be worn.

Use adequate ventilation or NIOSH-approved respiratory devices Respiratory:

if vapor concentration is high.

Handle in well ventilated areas. If necessary, install ventilation at Ventilation:

the point of emission.

Evaluate need based on application. Slip proof shoes may be Other:

worn where spills may occur.

Use good personal hygiene practices. Limit exposure to product Work/Hygiene Practice:

whenever possible. Wash contaminated clothing or shoes before

each use.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

**Physical State:** Liauid

Color: Clear, pale yellow to green Odor: Characteristic, aromatic

0.883-0.905 Density: Refractive Index @ 20°C: 1.461-1.477 -18  $^{\circ}$  to -8  $^{\circ}$ Optical Rotation @ 20°C: Not Available Viscosity: Auto Ignition Temperature: Not Available Flash Point: >85°C

**Boiling Point:** Not determined

**Melting Point:** N/A Solubility in Water: Insoluble

10. STABILITY AND REACTIVITY

Stability: Stable under normal conditions of use

Keep away from sources of ignition, flame and heat. Avoid hot **Conditions to Avoid:** 

work and sources of ignition on or near empty containers.

Incompatibility (Materials to Avoid):

Hazardous Decomposition or

**Byproducts:** 

No decomposition under normal use.

**Hazardous Polymerization:** Will Not Occur

11. TOXICOLOGICAL INFORMATION

Threshold Limit Value (ACGIH TLV): None established Threshold Limit Value (OSHA PEL): None established

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

Oral LD50: > 5000 mg/kg [Rat]

**Acute Toxicity Data:** Dermal LD50: > 2500 mg/kg [Rabbit]

Inhalation LC50: None established Ingestion of large quantities: Hazardous

Inhalation: Hazardous **Health Hazards (Acute and Chronic):** 

Skin Contact: Liquid may be irritating

Eye Contact: Liquid may be irritating

Other Effects: None established

12. ECOLOGICAL INFORMATION

**Mobility:** Low mobility in the soil

R50/53: Toxic to aquatic organisms, may cause long term

adverse effects in the aquatic environment.

**Aquatic Toxicity:** 

Toxicity by Daphnia (CE50): 7.60 mg/I/48 hour

**Bioaccumulation Potential:** No results to our knowledge

Avoid direct discharges to the natural environment (waters **Precautions:** 

surface, sewage or underground waters)

13. DISPOSAL CONSIDERATIONS

Do not put into sewer lines. Dispose of according to local, state **Waste Disposal Methods:** 

and federal regulations.

## 14. TRANSPORT INFORMATION

Land ADR/RID: Class: 9 UN #: 3082

Packing Group III

Shipping Name: Environmentally Hazardous Substance, Liquid

N.O.S.

Maritime IMDG: Class: 9 UN #: 3082

**Transport Classification:** 

Packing Group III

(according to international regulations)

Shipping Name: Environmentally Hazardous Substance, Liquid

N.O.S.

Marine Pollutant: Yes

Air ICAO-TI and IATA-DGR:

Class: 9 UN #: 3082 Packing Group III

Shipping Name: Environmentally Hazardous Substance, Liquid

N.O.S.

**Customs Rate Code:** 3301 29 41 00

### 15. REGULATORY INFORMATION

EC Labeling:

Xn: Harmful

N: Dangerous for environment

R10: Flammable

R43: May cause sensitization by skin contact

R51/53 - Toxic to aquatic organisms, may cause long term

adverse effects in the aquatic environment. R65 - May cause lung damage if swallowed

S24: Avoid contact with skin S37: Wear suitable gloves

S61: Avoid release to the environment. Refer to special

instructions/safety data sheet.

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

attention immediately.

#### 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.