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MATERIAL SAFETY DATA SHEET CITRONELLA ESSENTIAL OIL

MSDS

1. PRODUCT NAME AND COMPANY IDENTIFICATION

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

Saffire Blue Inc. **Company Name:**

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

Date Issued: 01/12/2010

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

2. COMPOSITION/INGREDIENT INFORMATION

Ingredients:

Steam Distilled Citronella winterianus 100%

Hazardous Components: Essential oil and derivatives

CAS #: 8000-29-1 294-954-7 **EINECS #:**

FEMA #:

3. HAZARDS IDENTIFICATION

Routes of Entry

Eve Contact: Irritation will occur with possible damage

Skin Contact: May cause irritation or allergic dermatitis upon prolonged exposure

Inhalation may cause irritation in throat and lungs. High Inhalation: concentrations of vapor may cause anesthetic effects.

Ingestion: Harmful if swallowed

4. FIRST AID MEASURES

Flush with plenty of water or eye wash solution for 15 minutes. Get Eyes:

medical attention if irritation persists.

Remove contaminated clothing. Wash with soap and flush with Skin:

plenty of water. Seek medical attention if irritation persists. Administer water or milk to dilute. Seek medical attention

Ingestion: immediately or call a poison control center.

Avoid gross inhalation of fumes. Remove to fresh air and seek Inhalation:

medical attention if needed.

5. FIRE FIGHTING MEASURES

Flash Point (Method Used): 81°C Closed Cup

Extinguishing Media: Dry Chemical, Carbon Dioxide, Foam Unsuitable Media: Water (except to cool containers)

Fire fighters should wear positive pressure self-contained breathing

apparatus. Toxic vapors may be released. Cool containers exposed **Special Firefighting Procedures:**

to flame with water. Spray extinguishing media directly into base of

fire.

Unusual Fire & Explosion Hazards: None known

Hazardous Decomposition

Materials:

Burning produces CO and CO2

6. ACCIDENTAL RELEASE MEASURES (STEPS FOR SPILLS)

Avoid ingestion

Follow good industrial practice as to housekeeping, personal hygiene and avoidance of prolonged or repeated contact with the

Personal Protection: skin or eyes.

Wear eye protection, gloves and aprons. Ventilate area well or

wear approved respirators. Eliminate all sources of ignition

Ventilate area or wear approved respirators

Prevent liquid from entering sewers

Methods for Cleaning Up: Small spills can be wiped up with paper rags (place in closed

metal waste container)

Large spills can be absorbed onto non-flammable absorbent.

Wash area with soap and water.

7. HANDLING AND STORAGE

Handling

Safe Handling:

Avoid ingestion

Follow good industrial practice as to housekeeping, personal hygiene and avoidance of prolonged or repeated contact with the

skin or eyes.

Wear eye protection, gloves and aprons. Ventilate area well or

wear approved respirators.

Storage

Containers:

Requirements for Storage Areas and Store in an area that is cool, dry, and well-ventilated. Do not

expose to temperatures over 60℃.

8. EXPOSURE CONTROL/PERSONAL PROTECTION

Threshold Limit Value: Not established **OSHA Permissible Limit:** Not established

Provide adequate ventilation. Safety showers and eye wash **Engineering Controls:**

stations should be located near work areas.

Personal hygiene is an important work practice exposure control measure and the following general measures should be taken

when working with or handling this material:

(1) Do not store, use, and/or consume foods, beverages, tobacco **Work Practice Controls:**

products, or cosmetics in areas where this material is stored. (2) Wash hands and face carefully before eating, drinking, using

tobacco, applying cosmetics, or using the toilet.

(3) Wash exposed skin promptly to remove accidental splashes or

contact with this material.

Respiratory: Avoid casual breathing of vapors

Ventilation: Local, mechanical exhaust in recommended

Eye: OSHA approved safety glasses Skin: Wear gloves and clothing to avoid skin contact

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Liquid, Oil

Color: Clear yellow to pale brown

Odor: Characteristic of lemon, herbaceous

Vapor Pressure (mm Hg.): Not available

Flash Point: 81℃ **Boiling Point:** + 215°C **Melting Point:** NA

0878 - 0.895Specific Gravity (H2O = 1): Refractive Index @ 25°C: 1.4660-1.4750 **Optical Rotation:** -5° to 0° Solubility in Water: Insoluble

10. STABILITY AND REACTIVITY

Stability: This material is stable under normal conditions

Avoid contact with strong oxidizing agents and avoid hot work Incompatibility (Materials to Avoid):

and sources of ignition on or near empty containers.

CO. CO2, smoke and unidentified organic compounds may be

Conditions to Avoid: Avoid contact with sparks, flame and heat.

Hazardous Decomposition or

Byproducts:

formed during combustion.

Hazardous Polymerization: Will Not Occur

11. TOXICOLOGICAL INFORMATION

CAUTION: Liquid may be irritating to eyes and skin. **ACGIH TLV:** None established **OSHA PEL:** None established

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

Oral LD50: > 5000 mg/kg [Rat]

Dermal LD50: > 4700 mg/kg [Rabbit] **Acute Toxicity Data:**

Inhalation LC50: None established

Irritancy: Not Available Sensitization: Not Available **Phototoxicity:** Not Available

12. ECOLOGICAL INFORMATION

Mobility:

Toxic to aquatic organisms, may cause long term adverse effects **Aquatic Toxicity:**

in the aquatic environment Low mobility in the soil

Persistence: Not available

Bio-accumulative Potential: Not available

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods: Dispose of according to local, state and federal regulations. 14. TRANSPORT INFORMATION

Customs Rate Code: 3301 29 41 00

Class: 9 UN #: 3082

Land Transport: ADR/RID: Packing Group: III

Label Name: Environmentally Hazardous Substance, Liquid, N.O.S.

Class: 9 UN #: 3082

Maritime Transport: IMDG: Packing Group: III

Label Name: Environmentally Hazardous Substance, Liquid, N.O.S.

Marine Pollutant: Yes

Class: 9

Air Transport: ICAO-TI/IATA-DGR: UN #: 3082

Packing Group: III

Label Name: Environmentally Hazardous Substance, Liquid, N.O.S.

15. REGULATORY INFORMATION

Federal & State Regulations: TSCA 8(b) inventory: Citronella Oil

Other Regulations: OSHA: Hazardous by definition of Hazard Communication

Standard (29 CFR 1910.1200).

Other Classifications:

Class B-3: Combustible liquid with a flash point between 37.8°C

WHMIS (Canada): (100°F) and 93.3°C

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

R38: Irritating to skin

R41: Risk of serious damage to eyes

Health Hazard: 2 Fire Hazard: 2

HMIS (USA): Reactivity: 0

Personal Protection: h Health Hazard: 2

National Fire Protection Association Flammability: 2

(USA):

DSCL (EEC):

Flammability: 2
Reactivity: 0
Specific Hazard

Specific Hazard:

Gloves

Protective Equipment: Lab Coat

Approved Vapor Respirator

Splash Goggles

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.