



SAFFIRE BLUE INC.

MATERIAL SAFETY DATA SHEET

Palmarosa Essential Oil

Revision Date:

20th March 2013



SECTION 1 – IDENTIFICATION OF THE MATERIAL AND SUPPLIER

- 1.1 Product Name:** Palmarosa Essential Oil
1.2 Botanical Name: *Cymbopogon martini*
1.3 Product Code: OEPALM
1.4 AUSTRALIAN AICS Name: Oils, palmarosa
1.5 USA INCI Name: Cymbopogon Martini Oil
1.6 EU [CosIng] INCI Name: Cymbopogon Martini Oil
1.7 EU [CosIng] Perfuming Name: Cymbopogon Martini Herb Oil
1.8 UN Proper Shipping Name: Not applicable
1.9 UN Technical Shipping Name: Not applicable
1.10 UN Number: Not applicable
1.11 AUSTRALIAN Schedule Name: Not Scheduled
1.12 Recommended Product Use: Cosmetic and aromatherapy ingredient.

Function: Fragrance Ingredient; Skin Conditioning Agent - Miscellaneous.

Categories: Body and Hand preparations [Excluding shaving preparations]; Cleansing products [Cold creams, cleansing lotions, liquids and pads]; Face and Neck preparations [Excluding shaving preparations]; Paste masks [Mud packs]; Skin care preparations, miscellaneous.

- 1.13 Company:** Saffire Blue Inc.
1.14 Address: 1444 Bell Mill Road, Tillsonburg, ON N4G4G9 Canada
1.15 Telephone Number: Tel: 519-286-0295
1.16 Fax Number:
1.17 Email: info@saffireblue.ca
1.18 Web Site: www.saffireblue.ca



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SECTION 2 – HAZARDS IDENTIFICATION

Hazardous according to criteria of NOHSC

Not a Dangerous Good according to the Australian Dangerous Goods (ADG) Code

Class: C1 Combustible Liquid
NOT A SUSMP Scheduled Poison

- 2.1 Risk Symbols:** Xn Harmful.
Xi Irritant.
- 2.2 Risk Phrases:** R22 Harmful if swallowed.
R36 Irritating to eyes.
R37 Irritating to respiratory system
R38 Irritating to skin.
R41 Risk of serious eye damage.
R43 May cause sensitization by skin contact.
R52 Harmful to aquatic organisms.
R53 May cause long-term adverse effects in the aquatic environment.
- 2.3 Safety Phrases:** [S2] [Keep out of the reach of children].
S3 Keep in a cool place.
S7 Keep container tightly closed.
S13 Keep away from food, drink and animal feeding stuffs.
S15 Keep away from heat.
S20 When using, do not eat or drink.
S23 Do not breathe vapour/mist/aerosol.
S24 Avoid contact with skin.
S25 Avoid contact with eyes.
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S27 Take off immediately all contaminated clothing.
S28 After contact with skin, wash immediately with plenty of soap and water.
S29 Do not empty into drains.
S36 Wear suitable protective clothing.
S37 Wear suitable gloves.
S39 Wear eye / face protection.
S45 In case of accident or if you feel unwell, seek medical advice immediately [show the label where possible].
S51 Use only in well-ventilated areas.
S60 This material and its container must be disposed of as hazardous waste.
S62 If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.
S63 In case of accident by inhalation: remove casualty to fresh air and keep at rest.
S64 If swallowed, rinse mouth with water, [only if the person is conscious].
- 2.4 Other:** None identified.

SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Ingredients:

Component Entity	CAS Number	EINECS Number	Proportions [%w/w]
Cymbopogon Martini Oil	8014-19-5 [TSCA; AICS] 84649-81-0 [EU]	283-461-2	100% pure



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SECTION 4 - FIRST AID MEASURES

4.1 Eye Contact:	Flush immediately with clean water for at least 15 minutes. Ensure irrigation under eyelids. Do not try to remove contact lenses unless trained. Contact a physician immediately.
4.2 Skin Contact:	Remove any contaminated clothing and footwear. Clean before re-use. Wash affected areas thoroughly with soap and water for at least 15 minutes. Contact a physician as necessary.
4.3 Inhalation:	Remove from the exposure to fresh air. If breathing has stopped, administer artificial respiration and oxygen if available. Contact a physician as necessary.
4.4 Ingestion:	Do Not induce vomiting. Wash out mouth with water and give water slowly to dilute [as much as casualty can comfortably drink] provided person is conscious. Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconsciousness. Contact a physician or local poison control centre immediately. If vomiting occurs, lean patient forward or place on left side [head-down position, if possible] to maintain open airway and prevent aspiration.
4.5 For Advice:	Contact a Poisons Information Centre [Phone eg Australia 131126; New Zealand 0800 764 766] or a doctor at once.
4.6 Advice to Doctor:	Treat symptomatically. Note the nature of this product.

SECTION 5 – FIRE FIGHTING MEASURES

5.1 Extinguishing Media:	Carbon Dioxide; Dry Chemical; Universal-Type Foam.
5.2 Unsuitable Extinguishing Media:	Water Spray; Others not established.
5.3 Unusual Firefighting Hazards:	None identified.
5.4 Special Procedures:	Determine the need to evacuate or isolate the area according to your local emergency plan.
5.5 Protective Equipment:	Self-contained breathing apparatus and protective clothing should be worn when fighting fires involving essential oils or chemicals.
5.6 Combustion Products:	Oxides of carbon.
5.7 Contact Point:	Dial 000 Emergency in case of fire [In Australia] or Local Emergency Authority [Out of Australia].

SECTION 6 – ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions:	Use of self-contained breathing apparatus is recommended for any major chemical spill. Refer also to section 8.
6.2 Safety Precautions:	Eliminate ALL ignition sources. Ventilate area. Determine the need to evacuate or isolate the area according to your local emergency plan;
6.3 Environmental Precautions:	Keep away from drains, surface and ground water. Report spills to appropriate Authorities if required.
6.4 Methods For Cleaning Up:	Contain spill and recover free product. Absorb remainder on vermiculite or other suitable absorbent material. Wipe small spills with cloth. Clean with hot water and detergent. Refer also to Section 13. for disposal procedures.



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SECTION 7 – HANDLING AND STORAGE

7.1 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. No smoking.
7.2 Storage:	Containers should be kept closed in order to minimise contamination. Store in a cool, dry, well ventilated place protected from light. Keep from extreme heat and away from ALL sources of ignition. Make sure the material does not come into contact with substances listed as: "Materials to Avoid", Refer to Section 10. Store in stainless steel drums or amber glass containers. For short term storage only: epoxy phenolic lined steel drums.
7.3 Unsuitable Packaging Materials:	None established.
7.4 Special Procedures:	None established.

SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Exposure Limits	There is a blanket recommendation of 10 mg/m ³ for inspirable dusts or mists when limits have not otherwise been established.
OSHA TWA:	None established.
OSHA STEL:	None established.
ACGIH TWA:	None established.
ACGIH STEL:	None established.
NOHSC TWA:	None established.
NOHSC STEL:	None established.
8.2 Respiratory Protection:	None generally required. Use NIOSH approved respirator in confined areas or if ventilation is inadequate.
8.3 Ventilation Protection:	Ensure adequate ventilation to keep exposure levels to a minimum. Local exhaust meeting ACGIH criteria is required. General exhaust is recommended.
8.4 Eye Protection:	Using goggles or face shield is recommended.
8.5 Protective Gloves:	Using chemical resistant gloves is recommended.
8.6 Protective Clothing:	Using chemical resistant clothing is recommended.
8.7 Protective Equipment:	An eyewash fountain and / or safety shower should be available in the work area.
8.8 Special Engineering Controls:	None established.
8.9 Other Personal Protection:	Consult the following Australian Standards for general advice regarding safety clothing and equipment: Respiratory Equipment: AS/NZS 1715 , Protective Gloves: AS 2161 , Industrial Clothing: AS 2919 , Industrial Eye Protection: AS 1336 and AS/NZS 1337 , Occupational Protective Footwear: AS/NZS 2210 .
8.10 Note:	These precautions are for room temperature handling. Use at elevated temperature or aerosol / spray applications may require additional precautions.



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SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

9.1 Appearance:	Liquid
9.2 Odour:	Characteristic
9.3 Specific Gravity:	0.870 to 0.900 @ 20°C
9.4 Refractive Index:	1.470 to 1.480 @ 20°C
9.5 Optical Rotation:	Not available.
9.6 pH:	Not available.
9.7 Solubility:	Soluble in ethyl alcohol
9.8 Solubility in Water:	Insoluble
9.9 Flash Point:	> 100°C [Closed Cup]
9.10 Flammability Limits [as % v/v in Air]	
Lower Explosion Limit:	Not available.
Upper Explosion Limit:	Not available.
9.11 Autoignition Temperature:	Not available.
9.12 Melting Point:	Not available.
9.13 Boiling Range:	Not available.
9.14 Vapour Pressure:	Not available.
9.15 Vapour Density:	Not available.
9.16 Viscosity:	Not available.

SECTION 10 – STABILITY AND REACTIVITY

10.1 Stability:	Chemically stable, hazardous material. This material presents no significant reactivity hazard.
10.2 Conditions to Avoid:	None established.
10.3 Materials to Avoid:	Strong acids, strong alkalis and oxidizing agents.
10.4 Flammability:	Combustible liquid.
10.5 Hazardous Polymerization:	Will not occur.
10.6 Hazardous Combustion or Decomposition Products:	Carbon monoxide and unidentified organic compounds may be formed during combustion.

SECTION 11 – TOXICOLOGICAL INFORMATION

11.1 Health Hazards	
Acute Effects:	
Swallowed:	May be harmful.
Eye:	May be irritating.
Skin:	May be irritating.
Inhalation:	May be harmful.
Chronic Effects:	None identified.
Mutagenic Effects:	None identified.
Reproductive Effects:	None identified.
Carcinogenic Effects:	None identified.
Sensitisation:	None identified.
Infectious:	Not applicable.
11.2 Acute Toxicity	
	LD50 [Oral]: >5,000 mg/Kg [Rat].
	LD50 [Dermal]: >5,000 mg/Kg [Rabbit].
	LC50 [Inhalation]: Not available.
11.3 Short Term Toxicity:	Not available.
11.4 Long Term Toxicity:	Not available.
11.5 Human Exposure Tests:	Not available.



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11.6 SCCNFP Allergens Annex III – Cosmetic Directive 2003/15/EC [7 th amendment]. Detection Limit 0.001%.					
CONSTITUENT	IFRA	EFFA	CAS Number	EINECS Number	RANGE
Amyl Cinnamal:	YES	NO	122-40-7	204-541-5	Not Detected
Amyl Cinnamyl Alcohol:	YES	NO	101-85-9	202-982-8	Not Detected
Anisyl Alcohol:	NO	YES	105-13-5 1331-81-3	203-273-6	Not Detected
Benzyl Alcohol:	NO	YES	100-51-6	202-859-9	Not Detected
Benzyl Benzoate:	NO	YES	120-51-4	204-402-9	Not Detected
Benzyl Cinnamate:	NO	YES	103-41-3	203-109-3	Not Detected
Benzyl Salicylate:	NO	YES	118-58-1	204-262-9	Not Detected
Cinnamal:	YES	YES	104-55-2	203-213-9	Not Detected
Cinnamyl Alcohol:	YES	YES	104-54-1	203-212-3	Not Detected
Citral:	YES	YES	5392-40-5	226-394-6	< 1.0%
Citronellol:	NO	YES	106-22-9	203-375-0	< 0.5%
Coumarin:	NO	YES	91-64-5	Not allocated	Not Detected
Eugenol:	YES	YES	97-53-0	202-589-1	Not Detected
Farnesol:	YES	YES	4602-84-0	225-004-1	< 2.0%
Geraniol:	NO	YES	106-24-1	203-377-1	< 87.0%
Hexyl Cinnamal:	YES	NO	101-86-0	202-983-3	Not Detected
Citronellal Hydrate:	YES	NO	107-75-5	203-518-7	Not Detected
iso-Eugenol:	YES	YES	97-54-1	202-590-7	Not Detected
Butyl Phenyl Methyl Propional:	YES	NO	80-54-6	201-289-8	Not Detected
d-Limonene:	YES	YES	5989-27-5	227-813-5	< 3.0%
Linalool:	YES	YES	78-70-6	201-134-4	< 5.0%
Hydroxyisohexyl-3-Cyclohexene Carboxaldehyde:	NO	NO	31906-04-4	250-863-4	Not Detected
Methyl Heptin Carbonate:	YES	NO	111-12-6	203-836-6	Not Detected
Methyl Ionone:	YES	NO	127-51-5 90028-68-5	204-846-3 289-861-3	Not Detected
Evernia Prunastri Extract [Oakmoss]:	YES	NO	9000-50-4 68917-10-2 90028-67-4	289-860-8	Not Detected
Evernia Furfuracea Extract [Treemoss]:	YES	NO	68648-41-9 68917-40-8		Not Detected

11.7 Additional EFFA Listed Sensitisers & IFRA Notifiable Substances. Detection Limit 0.001%.					
CONSTITUENT	IFRA	EFFA	CAS Number	EINECS Number	RANGE
No Additional Sensitisers	NO	NO	Not allocated	Not allocated	Not Detected
No Additional Notifiable Substances	NO	NO	Not allocated	Not allocated	Not Detected



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SECTION 12 – ECOLOGICAL INFORMATION

12.1 Eco-toxicity:	None established. Avoid pollution to soil, rivers and the ocean.
12.2 Persistence & Degradability:	Low persistence level and readily biodegradable.
12.3 Mobility:	Low mobility in the soil.
12.4 Bio-accumulative Potential:	None established.
12.5 Other Adverse Effects:	None established.

SECTION 13 – DISPOSAL CONSIDERATIONS

13.1 Waste Material:	Place material and / or absorbent into sealed containers and dispose of in accordance with current applicable laws and regulations. Refer to local Authority advice.
13.2 Contaminated Packaging:	Dispose of in accordance with current applicable laws and regulations. Refer to local Authority advice.
13.3 Note:	Empty containers can have residues, gases and mists. Use the proper Waste Disposal Methods & Procedures for Empties as well.

SECTION 14 – TRANSPORT INFORMATION

14.1 Transportation:	Not Dangerous Goods according to criteria of the Australian Dangerous Goods Code for Transport by Road and Rail. No special transport required. Not to be transported with Classes 1 [Explosives], 2.1 [Flammable Gases] [nb this applies only when the capacity of individual container exceeds 500 Lt], 2.3 [Toxic Gases], 4.2 [Spontaneously Combustible Substances], 5.1 [Oxidising Agents], 5.2 [Organic Peroxides], 7 [Radioactive Substances], and Foodstuffs or Foodstuff empties.
14.2 UN Number:	Not allocated.
14.3 Proper Shipping Name:	Not Regulated.
14.4 Technical Shipping Name:	Not applicable
14.5 DG Class / Subsidiary Risk:	Not allocated.
14.6 Packaging Group:	Not allocated.
14.7 Special Precautions:	None established.
14.8 Hazchem Code:	Not allocated.

14.9 Maritime Transportation IMDG		14.10 Air Transportation ICAO-TI and IATA-DGR	
IMDG Class:	Not allocated.	ICAO / IATA Class:	Not allocated.
Label:	Not allocated.	Label:	Not allocated.
UN Number:	Not allocated.	UN Number:	Not allocated.
Packaging Group:	Not allocated.	Packaging Group:	Not allocated.
EMS Number:	Not allocated.		
Marine Pollutant:	Not allocated.		
Proper Shipping Name:	Not Regulated.	Proper Shipping Name:	Not Regulated.
Technical Shipping Name:	Not applicable	Technical Shipping Name:	Not applicable



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SECTION 15 – REGULATORY INFORMATION

- 15.1 SUSMP Schedule:** Not Scheduled.
- 15.2 SUSMP Name:** Not allocated.
- 15.3 Warning Statements:** Not allocated.
- 15.4 Safety Directions:**
 - 1** Avoid contact with eyes.
 - 3** Wear eye protection when mixing or using.
 - 4** Avoid contact with skin.
 - 5** Wear protective gloves when mixing or using.
 - 6** Wash hands after use.
 - 11** No smoking.
 - 15** Store under cover in a dry, clean, cool, well ventilated place away from sunlight.
 - 23** Keep away from heat, sparks and naked flames.
 - 25** Avoid contact with food.
- 15.5 Standard Statements:**
 - A** For advice, contact a Poisons Information Centre [Phone eg Australia 131126; New Zealand 0800 764 766] or a doctor at once.
 - G3** If swallowed, do NOT induce vomiting.
- 15.6 AICS:** This product is listed on the Public AICS Database.

16. ADDITIONAL INFORMATION

16.1 Revision Date: 20th March 2013

16.2 DISCLAIMER

The information contained in this Material Safety Data Sheet is obtained from current and reliable sources. Saffire Blue Inc. provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This Material Safety Data Sheet summarises our best current knowledge of the health and safety hazard information of the product. This document is thus, intended only as a guide to the appropriate precautionary handling of the material by properly trained personnel using this product. Individuals receiving this information must exercise their independent judgment in determining its appropriateness for a particular purpose. As the ordinary or otherwise use(s) of this product is outside the control of Saffire Blue Inc., no representation or warranty, expressed or implied, is made as to the effect(s) of such use(s), (including damage or injury), or the results obtained. Saffire Blue Inc. expressly disclaims responsibility as to the ordinary or otherwise use(s). Furthermore, nothing contained herein should be considered as a recommendation by Saffire Blue Inc. as to the fitness for any use. The liability of Saffire Blue Inc. is limited to the value of the goods and does not include any consequential loss. Saffire Blue Inc. shall not be liable for any errors or delays in the content, or for any actions taken in reliance thereon. Saffire Blue Inc. shall not be responsible for any damages resulting from use of or reliance upon this information. The user of the product is solely responsible for compliance with all laws and regulations applying to the use of the products, including intellectual property rights of third parties.

16.3 MANUFACTURED PRODUCTS INGREDIENT DISCLAIMER

As the availability of ingredients and raw materials is not always certain whether due to changes in nature or otherwise, Saffire Blue Inc. reserves the right to substitute alternate ingredients/raw materials in the manufacture of its products and bases in order to maintain supply to its customers. Customers should always refer to the ingredients label as affixed to each product or to specification sheets which are current at the time of supply of the product.