

Gingergrass Essential Oil Revision Date: 20th March 2013





SECTION 1 - IDENTIFICATION OF THE MATERIAL AND SUPPLIER

1.1 Product Name: Gingergrass Essential Oil
1.2 Botanical Name: Cymbopogon martini sofia

1.3 Product Code: OEGINGGRAS

1.4 AUSTRALIAN AICS Name: Cymbopogon martini sofia, extract

1.5 USA INCI Name:Cymbopogon Martini Oil1.6 EU [CosIng] INCI Name:Cymbopogon Martini Oil

1.7 EU [CosIng] Perfuming Name: Cymbopogon Martini Sofia Herb Oil [CAS 92704-07-9; EINECS 296-436-6]

1.8 UN Proper Shipping Name:
 1.9 UN Technical Shipping Name:
 1.10 UN Number:
 1.11 AUSTRALIAN Schedule Name:
 Not applicable Not applicable Not Scheduled

1.12 Recommended Product Use: Cosmetic and aromatherapy ingredient.

Function: Fragrance Ingredient; Skin Conditioning Agent - Miscellaneous.

Categories: Bath oils, tablets, and salts; Bath soaps and detergents; Body and Hand preparations [Excluding shaving preparations]; Cleansing products [Cold creams, cleansing lotions, liquids and pads]; Face and Neck preparations [Excluding shaving preparations]; Fragrance preparations, miscellaneous; Hair conditioners; Moisturising preparations; Paste masks [Mud packs]; Perfumes; Skin care preparations, miscellaneous; Skin fresheners; Tonics, dressings, and other Hair grooming aids.

1.13 Company: Saffire Blue Inc.

1.14 Address: 1444 Bell Mill Road, Tillsonburg, ON N4G4G9 Canada

1.15 Telephone Number: Tel: 519-286-02

1.16 Fax Number:

1.17 Email: info@saffireblue.ca1.18 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

		1101 / Coolin Concada Cooli
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.
	S 36	Wear suitable protective clothing.
	S37	Wear suitable gloves.
	S 39	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].

SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS

None identified.

3.1 Ingredients:

2.4 Other:

Component Entity	CAS Number	EINECS Number	Proportions [%w/w]	
Cymbopogon Martini Oil	8014-19-5 [TSCA] 84649-81-0 [EU] 92704-07-9 [AICS]	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

Carbon Dioxide; Dry Chemical; Universal-Type Foam. 5.1 Extinguishing Media:

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.

Eliminate ALL ignition sources. Ventilate area. Determine the need to 6.2 Safety Precautions:

evacuate or isolate the area according to your local emergency plan;

Keep away from drains, surface and ground water. 6.3 Environmental Precautions:

Report spills to appropriate Authorities if required.

Contain spill and recover free product. Absorb remainder on vermiculite or 6.4 Methods For Cleaning Up:

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 LimitsThere is a blanket recommendation of 10 mg/m³ for inspirable dusts or mists

when limits have not otherwise been established.

OSHA TWA:
OSHA STEL:
None established.
ACGIH TWA:
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 0.930 @ 20°C

9.4 Refractive Index: Not available. 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.

Strong acids, strong alkalis and oxidizing agents. 10.3 Materials to Avoid:

10.4 Flammability: Combustible liquid. 10.5 Hazardous Polymerization: Will not occur.

10.6 Hazardous Combustion or Carbon monoxide and unidentified organic compounds may be formed

Decomposition Products: during combustion.

SECTION 11 – TOXICOLOGICAL INFORMATION

11.1 Health Hazards

Chronic Effects:

Acute Effects: Swallowed: May be harmful. Eve: May be irritating.

Skin: May be irritating. May be harmful. Inhalation: None identified. **Mutagenic Effects:** None identified. **Reproductive Effects:** None identified. Carcinogenic Effects: None identified.

Sensitisation: None identified. Infectious: Not applicable.

11.2 Acute Toxicity

Not available. LD50 [Oral]: LD50 [Dermal]: Not available. 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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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	203-273-6	Not Detected			
			1331-81-3					
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	Not Detected			
Citronellol:	NO	YES	106-22-9	203-375-0	Not Detected			
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	Not Detected			
Geraniol:	NO	YES	106-24-1	203-377-1	Not Detected			
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	< 22.0%			
Linalool:	YES	YES	78-70-6	201-134-4	Not Detected			
Hydroxyisohexyl-3-Cyclohexene	NO	NO	31906-04-4	250-863-4	Not Detected			
Carboxaldehyde:								
Methyl Heptin Carbonate:	YES	NO	111-12-6	203-836-6	Not Detected			
Methyl Ionone:	YES	NO	127-51-5	204-846-3	Not Detected			
-			90028-68-5	289-861-3				
Evernia Prunastri Extract [Oakmoss]:	YES	NO	9000-50-4		Not Detected			
			68917-10-2					
			90028-67-4	289-860-8				
Evernia Furfuracea Extract [Treemoss]:	YES	NO	68648-41-9		Not Detected			
-			68917-40-8					
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			
					= 0.00.00			



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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-accumlative 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.

Empty containers can have residues, gases and mists. 13.3 Note:

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 Not allocated. 14.5 DG Class / Subsidiary Risk: 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. Not allocated. **Packaging Group:**

EMS Number: Not allocated. **Marine Pollutant:** Not allocated. Not Regulated. Proper Shipping

Name:

Technical Shipping

Proper Shipping

Name:

Technical Shipping

Not applicable

Not Regulated.

Not applicable

Name:

Name:



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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.



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16.4 ACRONYMS

ACCC Australian Competition and Consumer Commission

ADG Australian Dangerous Goods

AICS Australian Inventory of Chemical Substances

ACGIH American Conference of Governmental Industrial Hygienists

AS Australian Standard

BOD Biochemical Oxygen Demand

CAS Chemical Abstracts Service (Registry Number)

cm³ cubic centimetres

COD Chemical Oxygen Demand

CosIng The European Commission database with information on Cosmetic Ingredients & Substances

DG Dangerous Goods

EFFA European Flavour Association

EINECS European Inventory of Existing Commercial Chemical Substances (Identifying Number)

EU Europe / European

g gram

GMO Genetically modified organism

Hazchem Code Emergency action code of numbers and letters that provide information to emergency services

especially fire fighters

Hr Hour

HSIS The Safe Work Australia Hazardou's Substances Information System

IATA The International Air Transport Association
ICAO The International Civil Aviation Organization
IFRA The International Fragrance Association
IMDG International Maritime Dangerous Goods

INCI The International Nomenclature of Cosmetic Ingredients

kq kilogram

LC stands for lethal concentration. LC50 is the concentration of a material in air which causes the

death of 50% (one half) of a group of test animals. The material is inhaled over a set period of

time, usually 1 or 4 hours. This is normally quoted in mg/kg body weight.

LD stands for Lethal Dose. LD50 is the amount of a material, given all at once, which causes the

death of 50% (one half) of a group of test animals. This is normally quoted in mg/kg body weight.

LDLO stands for Lethal Dose Low, the minimum amount of a material which tests have shown will

be lethal to a specified type of animal. This is normally quoted in mg/kg body weight.

Lt Litre



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16.4 ACRONYMS Continued

Max.maximummgmilligramMin.minimummlmillilitrem³cubic metremmmillimetre

mm Hg millimetre of Mercury

MSDS Material Safety Data Sheet

N/A Not Applicable

NICNAS The National Industrial Chemicals Notification and Assessment Scheme (AUSTRALIA)

NIOSH The National Institute for Occupational Safety and Health (USA)
NOHSC National Occupational Health and Safety Commission (AUSTRALIA)

n.o.s. Not otherwise specifiedNZS New Zealand Standard

OECD Organization for Economic Co-operation and Development (Test Method number)

OSHA The Occupational Safety and Health Administration (USA)

PEL Permissible Exposure Limit

ppb
ppm
parts per billion
parts per million

RTECS The Registry of Toxic Effects of Chemical Substances

SCCNFP Scientific Committee on Cosmetic Products and Non-Food Products (EUROPE)

STEL Short Term Exposure Limit

SUSMP Standard for the Uniform Scheduling of Medicine & Poisons (AUSTRALIA)

TD stands for Toxic Dose. TD is the amount of a material, given all at once, which causes the

untoward symptoms in the majority of persons, or in the majority of a group of test animals. This is

normally quoted in mg/kg body weight.

TGA Therapeutic Goods Administration (AUSTRALIA)

TLV Threshold Limit Value
TWA Time Weighted Average
UN United Nations (number)
USA The United States of America

μg microgram μl microlitre

16.9 Data Sources: AICS; Australian Code for the Transport of Dangerous Goods by Road & Rail;

CosIng; Supplier Documentation; EFFA; HSIS; IATA Dangerous Goods

Regulations; IFRA; IMDG Code; The International Cosmetic Ingredient Dictionary

and Handbook; NICNAS; SUSMP.