



Certificate of Analysis

PRODUCT DETAILS					
Product Name	PALMAROSA OIL ORGANIC				
Product Code	OCPALM				
INCI Name	Cymbopogan martinit stapf var. motia				
Batch Number	4399211				
Best Before End	April 2023				
Manufacturing Process	Steam distillation from leaves, stems and flowers of cymbopogan martini.				
Identification	CAS No: 84649-81-0	EINECS No: 283-461-2			
	Alternative Cas: 8014-19-5	FEMA: 2831			
	CoE No: 40	FLAVIS No: 06.006			
	FDA No: 182.20				
PHYSICAL AND CHEMICAL CHARACTERISTIC					
	SPECIFICATION RANGE	RESULTS			
Appearance	Liquid	Conforms			
Colour	Light yellow to yellow brown	Conforms			
Odour	Sweet rose like	Conforms			
Relative Density @ 25°c	0.878 - 0.892	0.884			
Refractive Index @ 25°c	1.465 - 1.485	1.473			
Flash Point	>93°c	Conforms			
Optical Rotation	-4 to +3°c	-0.69			
MAIN CONSTITUENTS					
CONSTITUENTS RANGE	RESULT	CONSTITUENTS RANGE	RESULTS	CONSTITUENT RANGE	RESULT
Geraniol >70 < 90%	80.85%	Geranyl Acetate >5 <15%	11.22%	Linalool 1-5%	1.88%
Farnseol 0.01-5%	0.12%	Beta Caryophellene 1-5%	2.03%	Limonene 0.01-5%	0.18%
Citral <1%	0.69%	A Terpinolene <1%	0.07%		
STORAGE AND SHELF LIFE					
Storage		Store in tightly closed container with minimum headspace in a cool, dark and dry place.			
Shelf Life		24 months unopened and stored as above.			

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SAFETY DATA SHEET PALMAROSA OIL ORGANIC

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name	PALMAROSA OIL ORGANIC
Product number	OCPALM
Synonyms; trade names	Cymbopogon martini stapf var. motia
CAS number	84649-81-0
Alternative Cas Number	8014-19-5
EC number	283-461-2
FEMA No:	2831

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses	Fragrance and flavour
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1.3. Details of the supplier of the safety data sheet

Supplier	Madar Corporation 19-20 Sandleheath Industrial Estate, Fordingbridge, Hampshire, SP6 1PA, UK Tel: 01425 655555 Email: technical@madarcorporation.co.uk
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1.4. Emergency telephone number

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical hazards	Not Classified
Health hazards	Skin Irrit. 2 - H315 Eye Dam. 1 - H318 Skin Sens. 1 - H317
Environmental hazards	Aquatic Chronic 3 - H412
Human health	May cause skin irritation. May cause an allergic skin reaction. May cause serious eye damage.
Environmental	Harmful to aquatic life with long lasting effects.

2.2. Label elements

EC number	283-461-2
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PALMAROSA OIL ORGANIC

Pictogram



Signal word

Danger

Hazard statements

H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P273 Avoid release to the environment.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P262 Do not get in eyes, on skin, or on clothing.

Contains

Geraniol, Geranyl Acetate, Farnesol, (S)-p-mentha-1,8-diene, Citral, a terpinolene

Supplementary precautionary statements

P261 Avoid breathing vapour/ spray.
P264 Wash contaminated skin thoroughly after handling.
P272 Contaminated work clothing should not be allowed out of the workplace.
P302+P352 IF ON SKIN: Wash with plenty of water.
P310 Immediately call a POISON CENTER/ doctor.
P321 Specific treatment (see medical advice on this label).
P332+P313 If skin irritation occurs: Get medical advice/ attention.
P333+P313 If skin irritation or rash occurs: Get medical advice/ attention.
P362+P364 Take off contaminated clothing and wash it before reuse.
P501 Dispose of contents/ container in accordance with national regulations.

2.3. Other hazards

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Geraniol		>70% <90%
CAS number: 106-24-1	EC number: 203-377-1	
Classification Skin Irrit. 2 - H315 Eye Dam. 1 - H318 Skin Sens. 1 - H317		
Geranyl Acetate		>5 < 15%
CAS number: 105-87-3	EC number: 203-341-5	
Classification Skin Irrit. 2 - H315 Skin Sens. 1B - H317 Aquatic Chronic 3 - H412		

Linalool		1-5%
CAS number: 78-70-6	EC number: 201-134-4	
Classification Skin Irrit. 2 - H315 Eye Irrit. 2 - H319		
Beta Caryophyllene		1-5%
CAS number: 87-44-5	EC number: 201-746-1	
Classification Asp. Tox. 1 - H304		
Farnesol		1-5%
CAS number: 4602-84-0	EC number: 225-004-1	
Classification Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Skin Sens. 1 - H317		
(S)-p-mentha-1,8-diene		0.01-5%
CAS number: 5989-54-8	EC number: 227-815-6	
M factor (Acute) = 1	M factor (Chronic) = 1	
Classification Flam. Liq. 3 - H226 Skin Irrit. 2 - H315 Skin Sens. 1 - H317 Asp. Tox. 1 - H304 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410		
Citral		<1%
CAS number: 5392-40-5	EC number: 226-394-6	
Classification Skin Irrit. 2 - H315 Skin Sens. 1 - H317		

a terpinolene	<1%
CAS number: 586-62-9	EC number: 209-578-0
M factor (Acute) = 1	M factor (Chronic) = 1
Classification Skin Sens. 1 - H317 Asp. Tox. 1 - H304 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410	

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation	Remove person to fresh air and keep comfortable for breathing. Get medical attention if any discomfort continues.
Ingestion	Rinse mouth thoroughly with water. Do not induce vomiting. Get medical attention.
Skin contact	Wash skin thoroughly with soap and water. Continue to rinse for at least 15 minutes. Get medical attention if irritation persists after washing.
Eye contact	Remove any contact lenses and open eyelids wide apart. Rinse with water. Continue to rinse for at least 15 minutes. Consult a physician for specific advice.

4.2. Most important symptoms and effects, both acute and delayed

4.3. Indication of any immediate medical attention and special treatment needed

Notes for the doctor	Treat symptomatically.
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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	Use as appropriate carbon dioxide (CO ₂), dry chemical or foam
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture

Specific hazards	In case of fire, toxic fumes like carbon monoxide and carbon dioxide may be liberated. Burning produces heavy smoke.
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5.3. Advice for firefighters

Special protective equipment for firefighters	Use protective equipment appropriate for surrounding materials.
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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions	Provide adequate ventilation. Avoid contact with skin and eyes. Avoid inhalation of vapours. Wear protective clothing and gloves.
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6.2. Environmental precautions

Environmental precautions	Do not discharge into drains or watercourses or onto the ground.
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6.3. Methods and material for containment and cleaning up

PALMAROSA OIL ORGANIC

Methods for cleaning up Absorb with liquid binding material (e.g sand, diatomaceous earth, acid or universal binding agents). Collect in closed and suitable containers for disposal.

6.4. Reference to other sections

Reference to other sections For personal protection, see Section 8. For waste disposal, see Section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions Apply good manufacturing practice and industrial hygiene practices. Keep containers sealed when not in use. Provide adequate ventilation. Keep away from heat, sparks and open flame.

Advice on general occupational hygiene Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Remove contaminated clothing and protective equipment before entering eating areas.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Store in tightly-closed, original container in a dry, cool and well-ventilated place.

7.3. Specific end use(s)

SECTION 8: Exposure Controls/personal protection

8.1. Control parameters

Linalool (CAS: 78-70-6)

DNEL

Workers - Dermal; Short term systemic effects: 5 mg/kg
 Workers - Inhalation; Short term systemic effects: 16.5 mg/m³
 Workers - Dermal; Long term systemic effects: 2.5 mg/kg
 Workers - Inhalation; Long term systemic effects: 2.8 mg/m³
 General population - Oral; Short term systemic effects: 1.5 mg/kg
 General population - Dermal; Short term systemic effects: 2.5 mg/kg
 General population - Inhalation; Short term systemic effects: 4.1 mg/m³
 General population - Oral; Long term systemic effects: 0.2 mg/kg
 General population - Dermal; Short term systemic effects: 1.25 mg/kg
 General population - Inhalation; Short term systemic effects: 0.7 mg/m³
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PNEC

- STP; Short term 10 mg/l
 - Soil; Short term 0.327 mg/kg
 - Intermittent release; Short term 2 mg/l
 - Fresh water; Short term 0.2 mg/l
 - Marine water; Short term 0.02 mg/l
 - Sediment (Freshwater); Short term 2.22 mg/kg
 - Sediment (Marinewater); Short term 0.222 mg/kg

Citral (CAS: 5392-40-5)

DNEL

Workers - Dermal; Long term systemic effects: 1.7 mg/kg
 Workers - Inhalation; Long term systemic effects: 9 mg/m³
 General population - Oral; Long term systemic effects: 0.6 mg/kg
 General population - Dermal; Long term systemic effects: 1 mg/kg
 General population - Inhalation; Long term systemic effects: 2.7 mg/m³

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PNEC

- STP; 1.6 mg/l
- Soil; 0.0209 mg/kg
- Intermittent release; 0.0678 mg/l
- Fresh water; 0.00678 mg/l
- Marine water; 0.000678 mg/l
- Sediment (Freshwater); 0.125 mg/kg
- Sediment (Marinewater); 0.0125 mg/kg

8.2. Exposure controls

Protective equipment



Personal protection

Use personal protection according to Directive 89/686/EEC

Eye/face protection

Approved safety goggles.

Hand protection

Chemical resistant gloves (PVC)

Other skin and body protection

Wear apron or protective clothing in case of contact.

Hygiene measures

Good personal hygiene procedures should be implemented.

Respiratory protection

Generally unnecessary in a well ventilated area.
If ventilation is insufficient, respiratory protection must be worn.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance	Liquid.
Colour	Light yellow to Yellow. Brown.
Odour	Sweet rose like
Initial boiling point and range	>215°C
Flash point	>93°C
Relative density	0.878 - 0.892 @ 25°C
Solubility(ies)	Insoluble in water.
Optical rotation	-4 to +3°C

9.2. Other information

Refractive index	1.465 - 1.485 @ 25°C
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SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity	The substance is stable under normal storage and handling conditions.
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10.2. Chemical stability

Stability	Stable at normal ambient temperatures.
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10.3. Possibility of hazardous reactions

Possibility of hazardous reactions None known.

10.4. Conditions to avoid

Conditions to avoid Avoid heat, flames and other sources of ignition.

10.5. Incompatible materials

Materials to avoid Strong oxidising agents. Strong reducing agents. Strong acids.

10.6. Hazardous decomposition products

Hazardous decomposition products Carbon dioxide (CO₂). Carbon monoxide (CO).

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicological effects No information available.

SECTION 12: Ecological Information

Ecotoxicity Toxic to aquatic life with long lasting effects.

12.1. Toxicity

12.2. Persistence and degradability

Persistence and degradability No data available.

12.3. Bioaccumulative potential

Bioaccumulative potential No data available on bioaccumulation.

12.4. Mobility in soil

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment No data available.

12.6. Other adverse effects

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal methods Recycling is preferred to disposal or burning. Disposal must be made according to official regulations. Must not be disposed together with household waste.

SECTION 14: Transport information

General The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).

14.1. UN number

Not applicable.

14.2. UN proper shipping name

Not applicable.

14.3. Transport hazard class(es)

No transport warning sign required.

14.4. Packing group

Not applicable.

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

No.

14.6. Special precautions for user

Not applicable.

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Transport in bulk according to Not applicable.

Annex II of MARPOL 73/78

and the IBC Code

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

EU legislation Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).

Guidance CHIP for everyone HSG228.

15.2. Chemical safety assessment

SECTION 16: Other information

Revision date 24/01/2017

Revision 2

Supersedes date 24/01/2017

SDS number 4825

Hazard statements in full

- H226 Flammable liquid and vapour.
- H304 May be fatal if swallowed and enters airways.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.
- H319 Causes serious eye irritation.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.
- H412 Harmful to aquatic life with long lasting effects.

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Product Specification
Palmarosa Oil Organic

PRODUCT DETAILS		
Product Name	PALMAROSA OIL ORGANIC	
Product Code	OCPALM	
INCI Name	Cymbopogon martini stapf var. motia	
Country of Origin	India	
Tariff Number	33012941	
Natural Status	We hereby declare, to the best of our knowledge and from information received from our supplier, that this product is in accordance to the requirements of Articles 3 (2) (d) of Regulation (EC) 1334/2008 and therefore can be designated as natural.	
Food Grade Status	We confirm, from information received from our supplier, that this product conforms with EU Regulations and can be used in food, subject to all the usual formulation considerations.	
Kosher Certified	No	
Halal Certified	We hereby delcare, from information received from our supplier, that this product does not contain any ingredient derived from animal origin, extracted from hair or feathers, animal fats, animal extracts, blood of any origin, blood plasma, pork and/or other meat products. This product does not contain alcohol (ethanol or grain alcohol) and has not been used in the manufacturing process.	
GMO Declaration	To the best of our knowledge and from information received from our supplier, this product does not derive from genetically modified starting raw material, or additives that are derived from genetically modifed organisms.	
Manufacturing Process	Cymbopogon martini oil is the volatile oil expressed from the herb palmarosa, Cymbopogon martinti, Gramineae.	
Identification	CAS No: 84649-81-0	EINECS No: 283-461-2
	Alternative Cas: 8014-19-5	FEMa No: 2831
PHYSICAL AND CHEMICAL CHARACTERISTIC		
Appearance	Liquid	
Colour	Light yellow to yellow brown	
Odour	Sweet Rose Like	
Relative Density @ 20°C	0.878 - 0.892	
Refractive Index @ 25°C	1.465 - 1.485	
Boiling point / range °c	>215	
Flash Point	>93°C	
Solubility	Insoluble in water	
Optical Rotation	-4 to +3°C	
FRAGRANCE ALLERGENS		
Citral (5392-40-5) <1%	Geraniol (106-24-1) <90%	Farnesol (4602-84-0) <5%
Linalool (78-70-6) <5%	Limonene (5989-27-5) <5%	
FOOD ALLERGENS		
ABSENT		
IFRA		
Geraniol (106-24-1) <90%	Citral (5392-40-5) <1%	Farnesol (4602-84-0) <5%
STORAGE AND SHELF LIFE		
Storage	Store in tightly closed container with minimum headspace in a cool, dark and dry place.	
Shelf Life	24 months unopened and stored as above.	

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Vegan Statement

IDENTIFICATION	
Product:	Palmarosa Oil Organic
Cas No:	84649-81-0
EINECS No:	283-461-2
STATEMENT	
<p>We, MADAR Corporation Limited, from information received from our supplier, hereby declare that the material listed above is compliant with a vegan or vegetarian diet.</p> <p>It does not contain any animal ingredients or animal by products. No animal ingredients or by products are used in the manufacturing process.</p> <p>This document represents to the best of our knowledge and from information received from our supplier. It does not release the buyer from the obligation to carry out an examination of the goods received. All uses made by the buyer are done under their own responsibility.</p>	