

Certificate of Analysis

PRODUCT DETAILS			
Product Name	PALMAROSA OIL ORGANIC		
Product Code	OCPALM	OCPALM	
INCI Name	Cymbopogan martinit stapf var. motia	Cymbopogan martinit stapf var. motia	
Batch Number	4346812	4346812	
Best Before End	January 2022	January 2022	
Manufacturing Process	Steam distillation from leaves, stems a	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	Conform	
Colour	Light yellow to yellow brown	Conform	
Odour	Sweet rose like	Conform	
Relative Density @ 25°c	0.878 - 0.892	0.8837	
Refractive Index @ 25°c	1.465 - 1.485	1.4713	
Flash Point	>93°c	Conform	
Solubility	Insoluble in water	Conform	
Boiling Point / Range	>215°c	Conform	
Optical Rotation	-4 to +3°c	-0.43	
STORAGE AND SHELF LIFE			
Storage	Store in tightly closed container wi	th minimum headspace in a cool, dark	
	and dry place.		

DISCLAIMER: This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the Company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the users responsibility to satisfy himself as to the suitability of such information for his own particular use. Where MADAR make a declaration that allergenic material are not present in any product, this statement is made assuming reasonable levels of detection. It is impossible to guarantee the "absolute absence" of any material. It is the ultimate responsibility of the customer to ensure the safety of the intended final product containing this material, by carrying out additional tests if necessary.



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	f the substance or mixture and uses advised against	
Identified uses	Fragrance and flavour	
1.3. Details of the supplier of the	ne safety data sheet	
Supplier	Madar Corporation	
	19-20 Sandleheath Industrial Estate,	
	Fordingbridge,	
	Hampshire,	
	SP6 1PA,	
	UK	
	Tel: 01425 655555	
	Email: technical@madarcorporation.co.uk	
1.4. Emergency telephone number		
SECTION 2: Hazards identification		
2.1. Classification of the substance or mixture		
Classification (EC 1272/2008)		

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



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, Farnseol, (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		
Famseol		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 CAS number: 5392-40-5	EC number: 226-394-6	<1%
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			
· · · · · · · · · · · · · · · · · · ·	s and Hazard Statements are Displayed in Section 16.		
SECTION 4: First aid measure			
4.1. Description of first aid mea			
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 immediat	te medical attention and special treatment needed		
Notes for the doctor	Treat symptomatically.		
SECTION 5: Firefighting meas	SECTION 5: Firefighting measures		
5.1. Extinguishing media			
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<u>_</u>			
Suitable extinguishing media	Use as appropriate carbon dixoide (CO2), dry chemical or foam Do not use water jet as an extinguisher, as this will spread the fire.		
Suitable extinguishing media Unsuitable extinguishing media	Use as appropriate carbon dixoide (CO2), dry chemical or foam Do not use water jet as an extinguisher, as this will spread the fire.		
Suitable extinguishing media Unsuitable extinguishing media 5.2. Special hazards arising fro Specific hazards	Use as appropriate carbon dixoide (CO2), dry chemical or foam Do not use water jet as an extinguisher, as this will spread the fire. om the substance or mixture In case of fire, toxic fumes like carbon monoxide and carbon dioxide may be liberated.		
Suitable extinguishing media Unsuitable extinguishing media 5.2. Special hazards arising fro	Use as appropriate carbon dixoide (CO2), dry chemical or foam Do not use water jet as an extinguisher, as this will spread the fire. om the substance or mixture In case of fire, toxic fumes like carbon monoxide and carbon dioxide may be liberated.		
Suitable extinguishing media Unsuitable extinguishing media 5.2. Special hazards arising fro Specific hazards 5.3. Advice for firefighters Special protective equipment	Use as appropriate carbon dixoide (CO2), dry chemical or foam Do not use water jet as an extinguisher, as this will spread the fire. om the substance or mixture In case of fire, toxic fumes like carbon monoxide and carbon dioxide may be liberated. Burning produces heavy smoke. Use protective equipment appropriate for surrounding materials.		
Suitable extinguishing media Unsuitable extinguishing media 5.2. Special hazards arising fro Specific hazards 5.3. Advice for firefighters Special protective equipment for firefighters SECTION 6: Accidental releas	Use as appropriate carbon dixoide (CO2), dry chemical or foam Do not use water jet as an extinguisher, as this will spread the fire. om the substance or mixture In case of fire, toxic fumes like carbon monoxide and carbon dioxide may be liberated. Burning produces heavy smoke. Use protective equipment appropriate for surrounding materials.		
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Suitable extinguishing media Unsuitable extinguishing media 5.2. Special hazards arising fro Specific hazards 5.3. Advice for firefighters Special protective equipment for firefighters SECTION 6: Accidental releas 6.1. Personal precautions, pro	Use as appropriate carbon dixoide (CO2), dry chemical or foam Do not use water jet as an extinguisher, as this will spread the fire. om the substance or mixture In case of fire, toxic fumes like carbon monoxide and carbon dioxide may be liberated. Burning produces heavy smoke. Use protective equipment appropriate for surrounding materials. The measures tective equipment and emergency procedures Provide adequate ventilation. Avoid contact with skin and eyes. Avoid inhalation of vapours. Wear protective clothing and gloves.		
Suitable extinguishing media Unsuitable extinguishing media 5.2. Special hazards arising fro Specific hazards 5.3. Advice for firefighters Special protective equipment for firefighters SECTION 6: Accidental releas 6.1. Personal precautions, pro Personal precautions	Use as appropriate carbon dixoide (CO2), dry chemical or foam Do not use water jet as an extinguisher, as this will spread the fire. om the substance or mixture In case of fire, toxic fumes like carbon monoxide and carbon dioxide may be liberated. Burning produces heavy smoke. Use protective equipment appropriate for surrounding materials. The measures tective equipment and emergency procedures Provide adequate ventilation. Avoid contact with skin and eyes. Avoid inhalation of vapours. Wear protective clothing and gloves.		



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 section	ons		
Reference to other sections	For personal protection, see Section 8. For waste disposal, see Section 13.		
SECTION 7: Handling and sto	orage		
7.1. Precautions for safe hand	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/m ³ Workers - Dermal; Long term systemic effects: 2.5 mg/kg Workers - Inhalation; Long term systemic effects: 2.8 mg/m ³ 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/m ³ General population - Oral; Long term systemic effects: 0.2 mg/kg General population - Dermal; Short term systemic effects: 1.25 mg/kg General population - Dermal; Short term systemic effects: 0.2 mg/kg General population - Inhalation; Short term systemic effects: 0.7 mg/m ³ -; :
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
DNEL	Workers - Dermal; Long term systemic effects: 1.7 mg/kg Workers - Inhalation; Long term systemic effects: 9 mg/m ³ 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/m ³



PALMAROSA OIL ORGANIC

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	
SECTION 10: Stability and reactivity		
10.1. Reactivity		
Reactivity	The substance is stable under normal storage and handling conditions.	
10.2. Chemical stability		
Stability	Stable at normal ambient temperatures.	
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	on products	
Hazardous decomposition products	Carbon dioxide (CO2). Carbon monoxide (CO).	
SECTION 11: Toxicological in	formation	
11.1. Information on toxicolog	ical effects	
Toxicological effects	No information available.	
SECTION 12: Ecological Infor	mation	
Ecotoxicity	Toxic to aquatic life with long lasting effects.	
12.1. Toxicity		
12.2. Persistence and degrade	ability	
Persistence and degradability	No data available.	
12.3. Bioaccumulative potentia	al	
Bioaccumulative potential	No data available on bioaccumulation.	
12.4. Mobility in soil		
12.5. Results of PBT and vPv	B assessment	
Results of PBT and vPvB assessment	No data available.	
12.6. Other adverse effects		
SECTION 13: Disposal consid	lerations	
13.1. Waste treatment method		
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 nam Not applicable.	<u>e</u>	
14.3. Transport hazard class(es)	
No transport warning sign req		
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 accor	ding 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 informat	ion			
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 CHEMICA	L 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 LIF				
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.			
		may not be valid for such material used in combination with		

any other materials or in any process. Such information is, to the best of the Company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the users responsibility to satisfy himself as to the suitability of such information for his own particular use. Where Madar Corporation make a declaration that allergenic material are not present in any product, this statement is made assuming reasonable levels of detection. It is impossible to guarantee the "absolute absence" of any material. It is the ultimate responsibility of the customer to ensure the safety of the intended final product containing this material, by carrying out additional tests if necessary.



Vegan Statement

IDENTIFICATION			
Product: Palmarosa Oil Organic			
Cas No: 84649-81-0			
EINECS No: 283-461-2			
STATEMENT			
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.	,		
It does not contain any animal ingredients or animal by products. No animal ingredients or by products are used in the manufacturing process.			
This document represents to the best of our knowledge and from information received from our supplied does not release the buyer from the obligation to carry out an examination of the goods received. All us			