

1523103

Reviewed on: 14.12.2022

SECTION 01: Identification of the substance/mixture and of the con 1.1 Product identifier Trade name: PALMAROSA ORGANIC OIL Article number: N1888 CAS Number: 8014-19-5 EC Number: 283-461-2 No CAS EINECS; 	npany/undertaking
 Trade name: PALMAROSA ORGANIC OIL Article number: N1888 CAS Number: 8014-19-5 EC Number: 283-461-2 	
 PALMAROSA ORGANIC OIL Article number: N1888 CAS Number: 8014-19-5 EC Number: 283-461-2 	
 84649-81-0 Registration number 01-2119552430-49-0008 	
1.2 Relevant identified uses of the substance or mixture and uses advised Application of the substance / the preparation Perfume ingredient Only for industrial use	against
1.3 Details of the supplier of the safety data sheet	
Manufacturer/Supplier: BIOLANDES, BP2 TEL: +33(0)5.58.51.00.00 2760 Route de Bélis email: fds@biolandes.com 40420 LE SEN FRANCE	
1.4 Emergency telephone number: FR-ORFILA (INRS):+33(0)1 45 42 59 59	
 Classification according to Regulation (EC) No 1272/2008 GHS05 Eye Dam. 1 - H318 Causes serious eye damage. GHS07 Skin Irrit. 2 - H315 Causes skin irritation. Skin Sens. 1 - H317 May cause an allergic skin reaction. Aquatic Chronic 3 - H412 Harmful to aquatic life with long lasting effects. 	
 2.2 Label elements Labelling according to Regulation (EC) No 1272/2008 Hazard pictograms 	
 GHS05 GHS07 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 	



1523103

Reviewed on: 14.12.2022 Printing date: 14.12.2022

PRODUCT : F	PALMAROSA ORGANIC OIL	
P302+P352 IF	ease to the environment. ON SKIN: Wash with plenty of water. of contents/container in accordance with local/regional/ national	(continued of page 1) /international regulations.
2.3 Other hazaResults of Pl	rds 3T and vPvB assessment	
 PBT: Not applicable 		
- vPvB:		
Not applicable	on of endocrine-disrupting properties	
Substance is r		
SECTION 03: C	omposition/information on ingredients	
3.1 Substances		
CAS No. 8014-19-5 Cyn	Description Ibopogon martinii (Roxb.) Will. Watson var.	
	Syn Andropogon martini Roxb.)	
 EC number: 		
283-461-2		
Dangerous of	omponents:	
CAS Number		%
106-24-1	geraniol	50,001-100
	EC number: 203-377-1	
	- H315, Skin Sens. 1 - H317	
105-87-3	Geranyl acetate	10,001-20,00
	EC number: 203-341-5	10,001 20,000
	🚸 Skin Irrit. 2 - H315, Skin Sens. 1B -	
	H317; Aquatic Chronic 3 - H412	
78-70-6	Linalool	1,001- 5,00
	EC number: 201-134-4	
	Skin Irrit. 2 - H315, Eye Irrit. 2 -	
4602-84-0	H319, Skin Sens. 1B - H317 Farnesol	1,001- 5,00
4002-04-0	EC number: 225-004-1	1,001- 3,00
	Skin Irrit. 2 - H315, Eye Irrit. 2 -	
	H319, Skin Sens. 1B - H317	
5392-40-5	Citral	1,001- 5,00
	EC number: 226-394-6	
	🔱 Skin Irrit. 2 - H315, Eye Irrit. 2 -	
	H319, Skin Sens. 1B - H317	
87-44-5	beta-Caryophyllene	0,101-1,00
	EC number: 201-746-1 Image: Asp. Tox. 1 - H304; 🔅 Skin Sens.	
	 ✓ Asp. Tox. 1 - H304; ✓ Skin Sens. 1B - H317 	
5989-54-8	I-limonene	0,101-1,00
	EC number: 227-815-6	0,101 1,00
	🚸 Asp. Tox. 1 - H304; 🚸 Flam. Liq. 3	
	🖤 ASP. 10X. 1 - 11304, 🧇 Fiani. Liq. 3	

H400, Aquatic Chronic 1 - H410



1523103

Reviewed on: 14.12.2022 Printing date: 14 12 2022

	DUCT		
PRO	DUCT :	PALMAROSA ORGANIC OIL	· · · · · · ·
SEC	TION 04	: First aid measures	(continued of page 2)
		ption of first aid measures	
		information:	
	Seek imm	nediate medical advice.	
•	After inh		
•		esh air and to be sure call for a doctor. n contact:	
	If skin irri	itation continues, consult a doctor.	
		ely wash with water and soap and rinse thoroughly.	
•		e contact:	
	Rinse ope	ned eye for several minutes under running water. If symptom	ns persist, consult a doctor.
•	After swa	allowing: nediate medical advice.	
•		cion for doctor:	
		nportant symptoms and effects, both acute and delay elevant information available.	ea
		ion of any immediate medical attention and special tr elevant information available.	eatment needed
SEC	TION 05	: Firefighting measures	
		uishing media	
•	Suitable	extinguishing agents: d, extinguishing powder. Do not use water.	
		xtinguishing methods suitable to surrounding conditions.	
٠		ty reasons unsuitable extinguishing agents:	
	Water wit	h full jet	
		hazards arising from the substance or mixture	
Fo	ormation of	f toxic gases is possible during heating or in case of fire.	
5	.3 Advice	for firefighters	
	Protectiv	e equipment:	
		hale explosion gases or combustion gases. al information	
•		angered receptacles with water spray.	
SEC	TION 06	: Accidental release measures	
		al precautions, protective equipment and emergency	procedures
W	lear protect	tive equipment. Keep unprotected persons away.	
		uate ventilation rom ignition sources.	
		nmental precautions:	
		product to reach sewage system or any water course. Active authorities in case of seepage into water course or sewa	age system.
		Is and material for containment and cleaning up: caminated material as waste according to item 13.	
		uate ventilation.	
~	1 D		
		nce to other sections 7 for information on safe handling.	
S	ee Section	8 for information on personal protection equipment.	
	ee Section	13 for disposal information.	
EU			(continued on page 4)



1523103

Reviewed on: 14 12 2022

Reviewed on:	14.12.2022
Printing date:	14.12.2022

PRODUCT :	PALMAROSA ORGANIC OIL
	(continued of page 3)
SECTION 07:	Handling and storage
Keep recepta Keep away fr Ensure good Prevent form Handle with o Informat Keep ignit	ons for safe handling cles tightly sealed. om heat and direct sunlight. ventilation/exhaustion at the workplace. tion of aerosols. are. Avoid jolting, friction and impact. on about fire - and explosion protection: on sources away - Do not smoke. ainst electrostatic charges.
Storage: • Requirem Store only Prevent ar Use only r • Informat Not requir • Further in Keep cont Protect fro	ns for safe storage, including any incompatibilities ents to be met by storerooms and receptacles: in the original receptacle. y seepage into the ground. eceptacles specifically permitted for this substance/ product. on about storage in one common storage facility: ed. iformation about storage conditions: iner tightly sealed. m heat and direct sunlight. otacle in a well ventilated area.
7.3 Specific No further re	end use(s) evant information available.
SECTION 08:	Exposure controls/personal protection
8.1 Control • Ingredier Not requir	parameters ts with limit values that require monitoring at the workplace: ed.
 8.1 Control Ingredier Not requir Additiona 	parameters ts with limit values that require monitoring at the workplace:
 8.1 Control Ingredier Not requir Additiona The lists v 8.2 Exposul Individua General J The usual Keep away Immediate Wash hand Do not inh 	parameters ts with limit values that require monitoring at the workplace: ad. I information: alid during the making were used as basis.
 8.1 Control Ingredier Not requir Additiona The lists v 8.2 Exposul Individua General J The usual Keep away Immediate Wash hand Do not inh Avoid cont Respirato In case of self-contai Use suitab Protectio Protective 	parameters ts with limit values that require monitoring at the workplace: d. l information: alid during the making were used as basis. e controls l protection measures, such as personal protective equipment protective and hygienic measures: precautionary measures are to be adhered to when handling chemicals. from foodstuffs, beverages and feed. ly remove all soiled and contaminated clothing s before breaks and at the end of work. ale gases / fumes / aerosols. ale dust / smoke / mist. act with the skin. act with the eyes. ry protection : brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use ned respiratory protective device. e respiratory protective device in case of insufficient ventilation. n of hands: gloves
 8.1 Control Ingredier Not requir Additiona The lists v 8.2 Exposul Individua General I The usual Keep away Immediatk Wash hand Do not inh Do not inh Avoid cont Respiratoc In case of self-contai Use suitab Protection Protection Protection Che glove Due to mis chemical r Selection Material The select varies fror Penetrati 	parameters ts with limit values that require monitoring at the workplace: d. linformation: alid during the making were used as basis. e controls I protection measures, such as personal protective equipment protective and hygienic measures: precautionary measures are to be adhered to when handling chemicals. from foodstuffs, beverages and feed. Iy remove all soiled and contaminated clothing is before breaks and at the end of work. ale gases / fumes / aerosols. ale dust / smoke / mist. act with the skin. act with the eyes. ry protection: brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use ned respiratory protective device. e respiratory protective device. e respiratory protective device in case of insufficient ventilation. n of hands: gloves material has to be impermeable and resistant to the product/ the substance/ the preparation/ the insture. if the glove material on consideration of the penetration times, rates of diffusion and the degradation of gloves on of the suitable gloves does not only depend on the material, but also on further marks of quality and n manufacturer to manufacturer. on time of glove material product time has to be found out by the manufacturer of the protective gloves and has to be



1523103

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Reviewed on: 14.12.2022 Printing date: 14.12.2022

Printing date: 14.12.202	2
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	(continued of pag
SECTION 09: Physical and chemica	
9.1 Information on basic physical and chem	
General Information	
Physical state	Fluid
Colour:	yellow
Odour:	rose
Odour threshold:	Not determined.
Melting point/freezing point:	-15.0 °C
•••	,
Boiling point or initial boiling point and boiling range	229,0 °C
Flammability	Not determined.
Lower and upper explosion limit	
Lower:	Not determined.
Upper:	Not determined.
Flash point:	108,0 °C NFT 60-103 CC
Decomposition temperature:	Not determined.
рН	Not determined.
Viscosity:	
Kinematic viscosity	Not determined.
Dynamic:	Not determined.
Solubility	
water:	Not determined.
Partition coefficient n-octanol/water (log value)	Not determined.
Vapour pressure:	Not determined.
Density and/or relative density	
Density:	Not determined.
Relative density	0,8850 0,8950 D20/20
Vapour density	Not determined.
9.2 Other information	No further relevant information available.
Appearance:	
Form:	fluid
Important information on protection of hea	Ith and environment, and on safety.
Auto-ignition temperature:	Not determined.
Explosive properties:	Not determined.
Solvent content:	
Solids content:	0,00 %
Change in condition	
Evaporation rate	Not determined.
Information with regard to physical hazard	
Explosives	not applicable
Flammable gases	not applicable
Aerosols	not applicable
Oxidising gases	not applicable
Gases under pressure	not applicable
Flammable liquids	not applicable
Flammable solids	not applicable
Self-reactive substances and mixtures	not applicable
Pyrophoric liquids	not applicable
Pyrophoric solids	not applicable
ryrophonic solius	nor applicable



1523103

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Reviewed on: 14.12.2022 Printing date: 14.12.2022

(continued on page 7)

		(continued of page 5)
Substances and mixtures, which emit flammable gases in contact with water	not applicable	
Oxidising liquids	not applicable	
Oxidising solids	not applicable	
Organic peroxides	not applicable	
Corrosive to metals	not applicable	
Desensitised explosives	not applicable	

SECTION 10: Stability and reactivity

10.1 Reactivity No further relevant information available.

10.2 Chemical stability

10.3 Possibility of hazardous reactions No dangerous reactions known.

10.4 Conditions to avoid No further relevant information available.

10.5 Incompatible materials: No further relevant information available.

10.6 Hazardous decomposition products: Not determined.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008 Acute toxicity LD/LC50 values relevant for classification: ISO LD/LC 8014-19-5 Cymbopogon martinii (Roxb.) Will. Watson var. motia (Syn Andropogon martini Roxb.) Oral, LD50: 3600 mg/kg (rat) (standard acute method) Dermal, LD50: >5000 mg/kg (Rabbit) (standard acute method)

105-87-3 Geranyl acetate Oral, LD50: >4000 mg/kg (rat) (NTP 1987) 78-70-6 Linalool

Oral, LD50: 2790 mg/kg (rat) Dermal, LD50: 5610 mg/kg (Rabbit) 4602-84-0 Farnesol

Oral, LD50: 20000 mg/kg (rat) Dermal, LD50: 15000 mg/kg (rat)

5392-40-5 Citral Oral, LD50: 4960 mg/kg (rat)

beta-Caryophyllene 87-44-5

Oral, LD50: > 5000 mg/kg (rat) (Hart and Wong 1971)

5989-54-8 (S)-p-mentha-1,8-diene

Oral, LD50: 4400 mg/kg (rat) (Tsuji and al., 1975) Oral, LD50: 5600 mg/kg (mouse) (Tsuiji and al., 1975) Dermal, LD50: >5000 mg/kg (Rabbit) (INRS 227)

Primary irritant effect:

Skin corrosion/irritation

Irritant to skin and mucous membranes. Causes skin irritation.

Serious eye damage/irritation Strong irritant with the danger of severe eye injury. Causes serious eye damage.

Respiratory or skin sensitisation Sensitization possible through skin contact.



1523103

Reviewed on: 14.12.2022 Printing date: 14.12.2022

	Printing date: 14.12.2022
PRODUCT : PALMAROSA ORGANIC OIL	
Germ cell mutagenicity	(continued of page 6)
105-87-3 Geranyl acetate	
OECD 471 AMES: NEGATIVE (in vitro) (NTP 1987) 78-70-6 Linalool OECD 171 AMEG: NEGATIVE (in vitro) (leticia and al. 2007)	
OECD 471 AMES: NEGATIVE (in vitro) (Letizia and al., 2007) 87-44-5 beta-Caryophyllene OECD 471 AMES: NEGATIVE (in vitro) (Jack and al., 1080)	
OECD 471 AMES: NEGATIVE (in vitro) (Heck and al., 1989) 5989-54-8 (S)-p-mentha-1,8-diene OECD 471 AMES: NEGATIVE (in vitro) (FEMA flavor 2011) OECD 476 MLA TK: NEGATIVE (in vitro) (L5178Y, Myhr and al., 1990) • Carcinogenicity	
105-87-3 Geranyl acetate Micronoyau: NEGATIVE (mouse) (in vivo, Shelby 1993)	
78-70-6 Linalool Micronoyau: NEGATIVE (mouse) (in vivo, Letizia and al., 2007) Micronoyau: NEGATIVE (in vitro) (DiSotto and al., 2011)	
 5989-54-8 (S)-p-mentha-1,8-diene OECD 475: NEGATIVE (in vitro) (CHO, Kauderer and al., 1991) Reproductive toxicity 	
Not determined. STOT-single exposure Not determined.	
 STOT-repeated exposure Not determined. Aspiration hazard 	
Not determined. Subacute to chronic toxicity:	
78-70-6 Linalool Oral, NOAEL: 200 mg/kg (rat) (maternal toxicity, Politano and al., 2008)	
<pre>11.2 Information on other hazards • Endocrine disrupting properties * Substance is not listed.</pre>	
SECTION 12: Ecological information	
12.1 ToxicityAquatic toxicity:	
8014-19-5 Cymbopogon martinii (Roxb.) Will. Watson var.	
motia (Syn Andropogon martini Roxb.) CE50/48h: 10,8 mg/l (daphnia) (OECD 202) ErC50(0-72h): 13,9 mg/l (algae) (OECD 201)	
78-70-6 Linalool LD50: 27,8 mg/l (fish) ((OECD 203) RIFM 1991) ErC50(0-72h): 156,7 mg/l (algae)	
ErC50(0-48h): 59 mg/l (daphnia) ((OECD 202) 12.2 Persistence and degradability	
 No further relevant information available. Behaviour in environmental systems: Not determined. 	
12.3 Bioaccumulative potential No further relevant information available.	
12.4 Mobility in soil No further relevant information available.	
 12.5 Results of PBT and vPvB assessment PBT: Not applicable. 	

- Not applicable.

vPvB: Not applicable.
12.6 Endocrine disrupting properties The product does not contain substances with endocrine disrupting properties.

(continued on page 8)

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1523103

Reviewed on: 14.12.2022 Printing date: 14.12.2022

PRODUCT : PA	ALMAROSA ORGANIC OIL	
 Ecotoxical effi- Not determined Remark: Harmful to fish Additional eco General notes Harmful to agua 	t information available. ects: blogical information: 5:	(continued of page 7
SECTION 13: Dis	sposal considerations	
·	tion: be made according to official regulations.	
Recommenda Disposal must b Disposal must b	tion: be made according to official regulations.	
Recommenda Disposal must b SECTION 14: Tra 14.1 UN number	tion: be made according to official regulations. ansport information r or ID number	
Recommenda Disposal must b Disposal must b	tion: be made according to official regulations.	
Recommenda Disposal must b SECTION 14: Tra 14.1 UN number ADR	tion: be made according to official regulations. ansport information r or ID number Void	
Recommenda Disposal must b SECTION 14: Tra 14.1 UN number ADR IMDG	tion: be made according to official regulations. ansport information r or ID number Void Void Void Void	
Recommenda Disposal must b Disposal m	tion: be made according to official regulations. ansport information r or ID number Void Void Void Void shipping name	
Recommenda Disposal must b Disposal m	tion: be made according to official regulations. ansport information r or ID number Void Void Void shipping name Void	
Recommenda Disposal must b Disposal m	tion: be made according to official regulations. ansport information r or ID number Void Void Void shipping name Void Void Void Void Void Void Void Void Void Void	
Recommenda Disposal must b Disposal must b IA.1 UN number ADR IMDG IATA 14.2 UN proper ADR IMDG IATA 14.3 Transport b	tion: be made according to official regulations. ansport information r or ID number Void Void Void shipping name Void Void Void Void Void Void Void Void Void Void	
Recommenda Disposal must b SECTION 14: Tra 14.1 UN number ADR IMDG IATA 14.2 UN proper ADR IMDG IATA 14.3 Transport h ADR Class	tion: be made according to official regulations. ansport information r or ID number Void Void Void Shipping name Void Void Void Void Void Void Noid	

Class Void 14.4 Packing group ADR Void IMDG Void IATA Void

14.5 Environmental hazards: Not applicable.

14.6 Special precautions for user Not applicable.

14.7 Maritime transport in bulk according to IMO instruments Not applicable.

• Transport/Additional information: Not applicable.

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(continued on page 9)



1523103

Reviewed on: 14.12.2022 Printing date: 14.12.2022

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ECTION 15:	Regulatory information
 Safety, DIRECTIV and electri Substance REGULAT. Annex I - under Art Substance Annex II Substance Regulatio Substance Regulatio Communi 	health and environmental regulations/legislation specific for the substance or mixture 2011/65/EU on the restriction of the use of certain hazardous substances in electrical onic equipment - Annex II s not listed. DN (EU) 2019/1148 RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing cle 5(3)) s not listed. REPORTABLE EXPLOSIVES PRECURSORS
 Class Sha I Waterhaz Generally r 	nstructions (air): e in %
	ety Assessment has not been carried out.

information in this sheet must be regarded as a description of the safety requirements for the product, they are not to be considered a warranty or quality specification and have no contractual value on properties and application areas thereof. The information contained in this safety data sheet relate to the specific material designated and may not be valid with respect to the product associated with another product or process, unless it is specified in the text of this document.

The required information complies with EU regulations in force. It does not exempt the user from knowing and applying all the national regulations in force.

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

Minimum training in occupational risk prevention is recommended for personnel who will handle this product, in the purpose of facilitating the understanding and interpretation of this form of safety data in the same way as the labeling of the product.

Abbreviations and acronyms:

IFRA:International Fragrance Association IOFI:International Organization of the Flavor Industry IFRA:International Fragrance Association IOFI:International Organization of the Flavor Industry

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) RID: Reglement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IMDG: International Maritime Code for Dangerous Goods IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation DOT: US Department of Transportation

IATA: International Air Transport Association IATA: International Air Transport Association



1523103

Reviewed on: 14.12.2022 Printing date: 14.12.2022

PRODUCT :	PALMAROSA ORGANIC OIL
	(continued of page 9)
ICAO: Int	ernational Civil Aviation Organisation ICAO: International Civil Aviation Organisation
	bally Harmonised System of Classification and Labelling of Chemicals GHS: Globally Harmonised System of
	ion and Labelling of Chemicals
	European Inventory of Existing Commercial Chemical Substances EINECS: European Inventory of Existing
	al Chemical Substances
	European List of Notified Chemical Substances ELINCS: European List of Notified Chemical Substances
	mical Abstracts Service (division of the American Chemical Society) CAS: Chemical Abstracts Service of the American Chemical Society)
	hal concentration, 50 percent LC50: Lethal concentration, 50 percent
	hal dose, 50 percent LD50: Lethal dose, 50 percent
	istent, Bioaccumulative and Toxic PBT: Persistent, Bioaccumulative and Toxic
	y Persistent and very Bioaccumulative vPvB: very Persistent and very Bioaccumulative
	ctive concentration at 50% ErC50:concentration of test substance which results in a 50 percent reduction
in either g	prowth rate (ErC50)relative to the control within 72hrs exposure.
 Sources 	
IFRA/IOFI	Labelling Manual, REACH registration dossier, supplier information
 * Data control 	ompared to the previous version altered.