

1315908

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	Reviewed on: 19.12.202 Printing date: 19.12.202
SECTION 01: Identification of the substance/mixture and of the compa	ny/undertaking
1.1 Product identifier	
Trade name:	
GERANIOL EX PALMAROSA	
Article number: F1885	
CAS Number:	
106-24-1	
• EC Number: 203-377-1	
No CAS EINECS:	
106-24-1	
Registration number	
01-2119552430-49-0008	
1.2 Relevant identified uses of the substance or mixture and uses advised aga	ainst
Application of the substance / the preparation	
Perfume ingredient	
Only for industrial use	
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	
SECTION 02: Hazards identification	
2.1 Classification of the substance or mixture	
 Classification according to Regulation (EC) No 1272/2008 	
\wedge	
GHS05	
Eye Dam. 1 - H318 Causes serious eye damage.	
GHS07	
\mathbf{V}	
Skin Irrit. 2 - H315 Causes skin irritation.	
Skin Sens. 1 - H317 May cause an allergic skin reaction.	
2.2 Label elements	
 Labelling according to Regulation (EC) No 1272/2008 	
- Hazard pictograms	
$\land \land$	
GHS05 GHS07 - Signal word	
Danger	
- Hazard statements	

- Hazard statements
- H315 Causes skin irritation. H317 May cause an allergic skin reaction. H318 Causes serious eye damage.
- EUH070 Toxic by eye contact.
- Precautionary statements
- P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P264 Wash thoroughly after handling.
- P272 Contaminated work clothing should not be allowed out of the workplace.
- P280 Wear protective gloves. P302+P352 IF ON SKIN: Wash with plenty of water.

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PRODUCT :	GERANIOL EX PALMAROSA	
P501 Dispose	of contents/container in accordance with local/regional/ national/	<i>(continued of page 1)</i> international regulations.
 PBT: Not applicable vPvB: Not applicable 	BT and vPvB assessment e. e. ion of endocrine-disrupting properties	
SECTION 03: 0	Composition/information on ingredients	
	Description nbopogon martinii (Roxb.) Will. Watson var. Syn Andropogon martini Roxb.) n number(s)	
Dangerous	components:	
CAS Number		%
106-24-1	geraniol	50,001-100
	EC number: 203-377-1	
	🗇 Eye Dam. 1 - H318; 👎 Skin Irrit. 2	
	- H315, Skin Sens. 1 - H317	
87-44-5	beta-Caryophyllene	1,001- 5,00
	EC number: 201-746-1 Image: Tox. 1 - H304; 🕐 Skin Sens.	
	 ✓ Asp. Tox. 1 - H304,	
78-70-6		0,101-1,00
	EC number: 201-134-4	0,101-1,00
	Skin Irrit. 2 - H315, Eye Irrit. 2 -	
	H319, Skin Sens. 1B - H317	
5392-40-5	Citral	0,101-1,00
	EC number: 226-394-6	
	🕐 Skin Irrit. 2 - H315, Eye Irrit. 2 -	

SECTION 04: First aid measures

 4.1 Description of first aid measures General information: Seek immediate medical advice.
After inhalation:
Supply fresh air and to be sure call for a doctor.After skin contact:
If skin irritation continues, consult a doctor.
Immediately wash with water and soap and rinse thoroughly.
Immediately rinse with water.
After eye contact:
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
After swallowing:
Seek immediate medical advice.
Information for doctor:
4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.

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4.3 Indication of any immediate medical attention and special treatment needed No further relevant information available.

SECTION 05: Firefighting measures

- 5.1 Extinguishing media
- Suitable extinguishing agents:
- CO2, sand, extinguishing powder. Do not use water. Use fire extinguishing methods suitable to surrounding conditions.
- For safety reasons unsuitable extinguishing agents: Water with full iet

5.2 Special hazards arising from the substance or mixture Formation of toxic gases is possible during heating or in case of fire.

5.3 Advice for firefighters

- Protective equipment:
- Do not inhale explosion gases or combustion gases. Additional information
- Cool endangered receptacles with water spray.

SECTION 06: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation Keep away from ignition sources.

6.2 Environmental precautions:

Do not allow product to reach sewage system or any water course.

6.3 Methods and material for containment and cleaning up: Dispose contaminated material as waste according to item 13. Ensure adequate ventilation.

6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 07: Handling and storage

7.1 Precautions for safe handling Keep receptacles tightly sealed. Keep away from heat and direct sunlight. Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols. Handle with care. Avoid jolting, friction and impact.

Information about fire - and explosion protection: Keep ignition sources away - Do not smoke. Protect against electrostatic charges.

7.2 Conditions for safe storage, including any incompatibilities Storage:

- Requirements to be met by storerooms and receptacles: Store only in the original receptacle.
- Use only receptacles specifically permitted for this substance/ product. Information about storage in one common storage facility:
- Not required.
- Further information about storage conditions: Keep container tightly sealed. Protect from heat and direct sunlight. Store receptacle in a well ventilated area.

7.3 Specific end use(s)

No further relevant information available.



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ECTION 08	Exposure controls/personal protection
	parameters nts with limit values that require monitoring at the workplace:
Not requir	
	al information:
The lists v	alid during the making were used as basis.
8.2 Exposu	
	I protection measures, such as personal protective equipment
	protective and hygienic measures: precautionary measures are to be adhered to when handling chemicals.
Keep awa	, from foodstuffs, beverages and feed.
	ely remove all soiled and contaminated clothing
	ds before breaks and at the end of work. ale gases / fumes / aerosols.
Do not inf	ale dust / smoke / mist.
	tact with the skin.
	tact with the eyes. Dry protection:
In case of	brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure us
	ined respiratory protective device. Ie respiratory protective device in case of insufficient ventilation.
	n of hands:
Protective	gloves
The glove	material has to be impermeable and resistant to the product/ the substance/ the preparation. ssing tests no recommendation to the glove material can be given for the product/ the preparation/ the
chemical i	
	of the glove material on consideration of the penetration times, rates of diffusion and the degradation
Material	of gloves ion of the suitable gloves does not only depend on the material, but also on further marks of quality ar
	n manufacturer to manufacturer.
	on time of glove material
The exact observed.	break through time has to be found out by the manufacturer of the protective gloves and has to be
 Eye/face 	protection
Safety gla	

9.1 Information on basic physical and cher	nical properties
General Information	
Physical state	Fluid
Colour:	colourless to pale yellow
Odour:	rose
Odour threshold:	Not determined.
Melting point/freezing point:	-15,0 °C
Boiling point or initial boiling point and poiling range	229,0 °C
Flammability	Not determined.
_ower and upper explosion limit	
_ower:	Not determined.
Jpper:	Not determined.
Flash point:	108,0 °C NFT 60-103 CC
Decomposition temperature:	Not determined.
рН	Not determined.
/iscosity:	
Kinematic viscosity	Not determined.
Dynamic:	Not determined.
Solubility	
water:	Not determined.



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Partition coefficient n-octanol/water (log value)	Not determined.
Vapour pressure:	Not determined.
Density and/or relative density	
Density:	Not determined.
Relative density	0,8790 0,8840 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	classes
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
Self-heating substances and mixtures	not applicable
Substances and mixtures, which emit	not applicable
flammable gases in contact with water	
Oxidising liquids	not applicable
Oxidising solids	not applicable
Organic peroxides	not applicable
Corrosive to metals Desensitised explosives	not applicable 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.

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PRODUCT :	GERANIOL EX PALMAROSA	(acation of a firm and the
SECTION 11	Toxicological information	(continued of page 5)
11.1 InformAcute to:	nation on hazard classes as defined in Regulation (EC) No 1272/2008 xicity	
LD/LC50 va	lues relevant for classification:	
400 04 4	ISO LD/LC	
106-24-1	Cymbopogon martinii (Roxb.) Will. Watson var.	
	motia (Syn Andropogon martini Roxb.) 3600 mg/kg (rat) (Standard acute method) 0: >5000 mg/kg (Rabbit) (standard acute method)	
87-44-5 Oral, LD50: :	beta-Caryophyllene > 5000 mg/kg (rat) (Hart and Wong 1971)	
	Linalool 2790 mg/kg (rat) 0: 5610 mg/kg (Rabbit)	
5392-40-5	Citral	
Oral, LD50: 4 • Primary	4960 mg/kg (rat) irritant effect: osion/irritation	
Irritant to Causes sk	skin and mucous membranes. in irritation. eye damage/irritation	
Strong irri	tant with the danger of severe eye injury. rious eye damage.	
Sensitizat	ory or skin sensitisation ion possible through skin contact.	
	Il mutagenicity	
106-24-1	Cymbopogon martinii (Roxb.) Will. Watson var.	
OECD 471	motia (Syn Andropogon martini Roxb.) AMES: NEGATIVE (in vitro) (INRS 315 2017)	
87-44-5 OECD 471	beta-Caryophyllene AMES: NEGATIVE (in vitro) (Heck and al., 1989)	
78-70-6 OECD 471 • Carcinog	Linalool AMES: NEGATIVE (in vitro) (Letizia and al., 2007) enicity	
	Linalool u: NEGATIVE (mouse) (in vivo, Letizia and al., 2007) u: NEGATIVE (in vitro) (DiSotto and al., 2011)	
	ctive toxicity	
Not deter	igle exposure nined. peated exposure	
 Not deterri Aspiratio 	nined.	
Not deterr • Subacute	nined. e to chronic toxicity:	
106-24-1	Cymbopogon martinii (Roxb.) Will. Watson var.	
Oral, NOA	motia (Syn Andropogon martini Roxb.) EL: 1000 mg/kg (rat) (103 weeks, INRS 315 2017)	
87-44-5	beta-Caryophyllene EL: 700 mg/kg (rat) (90 days Schmitt 2016)	
 Endocrin 	nation on other hazards e disrupting properties	
Substa	nce is not listed.	

SECTION 12: Ecological information

12.1 Toxicity

106-24-1

• Aquatic toxicity:

Cymbopogon martinii (Roxb.) Will. Watson var.

motia (Syn Andropogon martini Roxb.) CE50/48h: 10,8 mg/l (daphnia) (OECD 202)



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PRODUCT : GERANIOL EX PALMAROSA	
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(0-72h): 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.	(continued of page 6)
 12.5 Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable. 12.6 Endocrine disrupting properties The product does not contain substances with endocrine dis 12.6 Other adverse effects No further relevant information available. Ecotoxical effects: Not determined. 	rupting properties.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

- Recommendation
 - Must be specially treated adhering to official regulations.
- Uncleaned packaging:
- Recommendation:
 - Disposal must be made according to official regulations.

SECTION 14: Transport information

14.1 UN number or ID number ADR IMDG	Void Void
ΙΑΤΑ	Void
14.2 UN proper shipping name ADR	Void
IMDG	Void
ΙΑΤΑ	Void
14.3 Transport hazard class(es ADR)
Class	Void
IMDG	
Class	Void
IATA	
Class	Void
14.4 Packing group ADR IMDG IATA	Void Void Void

- EU



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RODUCT :	GERANIOL EX PALMAROSA
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	onmental hazards:
Not applicab	e.
14.6 Speci	al precautions for user
Not applicab	e.
14.7 Mariti	me transport in bulk according to IMO instruments
Not applicab	
 Transpo 	t/Additional information:
Not appli	
ECTION 15	: Regulatory information
15.1 Safet	, health and environmental regulations/legislation specific for the substance or mixture
	VE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical
	tronic equipment - Annex II e is not listed.
	TION (EU) 2019/1148
	- RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing
	ticle 5(3)) e is not listed.
	- REPORTABLE EXPLOSIVES PRECURSORS
	e is not listed.
	on (EC) No 273/2004 on drug precursors e is not listed.
	on (EC) No 111/2005 laying down rules for the monitoring of trade between the
	ity and third countries in drug precursors
Substanc	e is not listed.
 National 	regulations:
 Technica 	l instructions (air):
 Class Sh 	are in %
I	
Waterha	
Water ha	ard class 1 (Self-assessment): slightly hazardous for water.
	ical safety assessment:
A Chemical S	Safety Assessment has not been carried out.
ECTION 16	: Other information
	ion in this safety data sheet is based on the state of our knowledge at the date indicated. The
to be consid	n this sheet must be regarded as a description of the safety requirements for the product, they are not ered a warranty or quality specification and have no contractual value on properties and application
	f. The information contained in this safety data sheet relate to the specific material designated and may

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

- 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.
- 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:

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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: Règlement 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
ICAO: International Civil Aviation Organisation ICAO: International Civil Aviation Organisation
GHS: Globally Harmonised System of Classification and Labelling of Chemicals GHS: Globally Harmonised System of
Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances EINECS: European Inventory of Existing
Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society) CAS: Chemical Abstracts Service
(division of the American Chemical Society)
LC50: Lethal concentration, 50 percent LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative vPvB: very Persistent and very Bioaccumulative
CE50: effective concentration at 50% ErC50:concentration of test substance which results in a 50 percent reduction
in either growth rate (ErC50)relative to the control within 72hrs exposure.
Sources
IFRA/IOFI Labelling Manual, REACH registration dossier, supplier information