

1345008

SECTION 01: Identification of the substance/mixture and of the company/undertaking	
1.1 Product identifier	
 Trade name: GINGER OLEORESIN Article number: F9600 CAS Number: 8007-08-7 EC Number: 283-634-2 No CAS EINECS: 84696-15-1 	
1.2 Relevant identified uses of the substance or mixture and uses advised against Application of the substance / the preparation Cosmetic 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	
 2.1 Classification of the substance or mixture Classification according to Regulation (EC) No 1272/2008 GHS09 	
Aquatic Chronic 2 - H411 Toxic to aquatic life with long lasting effects. 2.2 Label elements	
 Labelling according to Regulation (EC) No 1272/2008 Hazard pictograms 	
GHS09 - Signal word	
Void - Hazard statements H411 Toxic to aquatic life with long lasting effects. - Precautionary statements P273 Avoid release to the environment. P391 Collect spillage. P501 Dispose of contents/container in accordance with local/regional/ national/international regulations.	
 2.3 Other hazards Results of PBT and vPvB assessment PBT: Not applicable. vPvB: 	
 Not applicable. Determination of endocrine-disrupting properties Substance is not listed. 	
EU (continued on page 2)	



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	PRODUCT :	GINGER OLEORESIN	
	SECTION 03:	Composition/information on ingredients	(continued of page 1)
*		Description Zingiber officinale Roscoe tion number(s)	
	 Dangerou CAS Number 	s components:	%
*	470-82-6	Eucalyptol EC number: 207-431-5 ألام Flam. Liq. 3 - H226; 🕐 Skin Sens.	0,101-1,00
*	5989-27-5	1B - H317 d-limonene EC number: 227-813-5 I Asp. Tox. 1 - H304; I Flam. Liq. 3 - H226; I Skin Irrit. 2 - H315, Skin	0,101-1,00
* *	5392-40-5	Sens. 1B - H317; 🚯 Aquatic Acute 1 - H400; Aquatic Chronic 3 - H412 Citral EC number: 226-394-6 () Skin Irrit. 2 - H315, Eye Irrit. 2 -	0,101-1,00
* * *	106-24-1	H319, Skin Sens. 1B - H317 geraniol EC number: 203-377-1 I Lippe Dam. 1 - H318; I Skin Irrit. 2	0,101-1,00
* * *	105-87-3	- H315, Skin Sens. 1 - H317 Geranyl acetate EC number: 203-341-5 ① Skin Irrit. 2 - H315, Skin Sens. 1B -	0,101-1,00
* * *	78-70-6	H317; Aquatic Chronic 3 - H412 Linalool EC number: 201-134-4 Skin Irrit. 2 - H315, Eye Irrit. 2 -	0,101-1,00
* * * *	71048-82-3	H319, Skin Sens. 1B - H317 [1.alpha.(E),2.beta.]-1-(2,6,6-Trimethyl-3- cyclohexen-1-yl)-2-buten-1-one EC number: 275-156-8 ① Acute Tox. 4 - H302, Skin Irrit. 2 -	0,01-0,100
* * * *	97-54-1	H315, Skin Sens. 1A - H317; S Aquatic Acute 1 - H400, Aquatic Chronic 1 - H410 isoeugenol EC number: 202-590-7 C Acute Tox. 4 - H302, Acute Tox. 4 -	0,01-0,100
*		H312, Skin Irrit. 2 - H315, Eye Irrit. 2 - H319, Skin Sens. 1A - H317;	

Skin Sens. 1A; H317: C >= 0,01 %

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RODUCT :	GINGER OLEORESIN
	(continued of page
	First aid measures
	tion of first aid measures
	information: ediate medical advice.
 After inh 	
Supply fre	sh air and to be sure call for a doctor.
After ski	
 After eye 	tation continues, consult a doctor.
	ned eye for several minutes under running water. If symptoms persist, consult a doctor.
 After swa 	allowing:
	ediate medical advice. ion for doctor:
• Informat	
4.2 Most in	portant symptoms and effects, both acute and delayed
No further re	levant information available.
4 3 Indicati	on of any immediate medical attention and special treatment needed
	levant information available.
ECTION 05	Firefighting measures
5.1 Extingu	ishing media
	extinguishing agents:
	l, extinguishing powder. Do not use water.
	xtinguishing methods suitable to surrounding conditions. y reasons unsuitable extinguishing agents:
Water wit	
	hazards arising from the substance or mixture toxic gases is possible during heating or in case of fire.
1 of mation of	toxic gases is possible during neutring of in case of me.
	for firefighters
 Protectiv 	e equipment:
	nale explosion gases or combustion gases. al information
	ngered receptacles with water spray.
ECTION 06	Accidental release measures
6.1 Persona	al precautions, protective equipment and emergency procedures
Wear protect	ive equipment. Keep unprotected persons away.
	Jate ventilation
keep away fr	om ignition sources.
	mental precautions:
	product to reach sewage system or any water course.
inform respe	ctive authorities in case of seepage into water course or sewage system.
	s and material for containment and cleaning up:
Dispose cont	aminated material as waste according to item 13.
6.4 Referen	nce to other sections
	7 for information on safe handling.
	B for information on personal protection equipment.
Eag Eaction	13 for disposal information.



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	(continued of page 3
ECTION 07: Handli	ing and storage
7.1 Precautions for s	
Keep receptacles tightly	
Keep away from heat a	nd direct sunlight. n/exhaustion at the workplace.
	d jolting, friction and impact.
	t fire - and explosion protection:
Keep ignition source	es away - Do not smoke.
Protect against elect	rostatic charges.
7.2 Conditions for sa	afe storage, including any incompatibilities
Storage:	
Requirements to I	be met by storerooms and receptacles:
Store only in the ori Prevent any seepage	
	s specifically permitted for this substance/ product.
	t storage in one common storage facility:
Not required.	
 Further information Keep container tight 	on about storage conditions:
Protect from heat an	nd direct sunlight.
Store receptacle in a	a well ventilated area.
7.3 Specific end use	e(s)
No further relevant info	
 Ingredients with T Not required. Additional information 	limit values that require monitoring at the workplace: ation:
The lists valid during	g the making were used as basis.
8.2 Exposure contro	ls
 Individual protect 	ion measures, such as personal protective equipment
	e and hygienic measures:
	nary measures are to be adhered to when handling chemicals. breaks and at the end of work.
 Respiratory protection 	ction:
	tory protective device in case of insufficient ventilation.
 Protection of hand Protective gloves 	JS:
2	nas to be impermeable and resistant to the product/ the substance/ the preparation.
Due to missing tests	s no recommendation to the glove material can be given for the product/ the preparation/ the
chemical mixture.	ve material on consideration of the penetration times, rates of diffusion and the degradation
	suitable gloves does not only depend on the material, but also on further marks of guality and
Selection of the glov • Material of gloves The selection of the	
Selection of the glov • Material of gloves The selection of the	cturer to manufacturer.
 Selection of the glov Material of gloves The selection of the varies from manufac Penetration time of 	cturer to manufacturer.
 Selection of the glow Material of gloves The selection of the varies from manufac Penetration time of The exact break thro observed. 	cturer to manufacturer. of glove material bugh time has to be found out by the manufacturer of the protective gloves and has to be
 Selection of the glow Material of gloves The selection of the varies from manufac Penetration time of The exact break thro observed. Eye/face protection 	cturer to manufacturer. of glove material bugh time has to be found out by the manufacturer of the protective gloves and has to be
 Selection of the glow Material of gloves The selection of the varies from manufac Penetration time of The exact break thro observed. 	cturer to manufacturer. of glove material bugh time has to be found out by the manufacturer of the protective gloves and has to be

General Information		
Physical state	Fluid	
Colour:	brown-red to brown	
Odour:	ginger	
Odour threshold:	Not determined.	
		(continued on page 5)



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RODUCT : GINGER OLEORESIN		
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Boiling point or initial boiling point and boiling range	Not determined.	
Flammability	Not determined.	
Lower and upper explosion limit		
Lower:	Not determined.	
Upper:	Not determined.	
Flash point:	> 100,0 °C NFT 60-103 CC	
Decomposition temperature:	Not determined.	
рН	Not determined.	
Viscosity:		
Kinematic viscosity	Not determined.	
Dynamic:	Not determined.	
Solubility	N	
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	Not determined.	
Vapour density	Not determined.	
9.2 Other information	No further relevant information available.	
Appearance:		
Form:	viscous	
Important information on protection of hea	alth 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	l classes	
Explosives	not applicable	
Flammable gases	not applicable	
Aerosols	not applicable	
Oxidising gases	not applicable	
Gases under pressure	not applicable	
Flammable liquids Flammable solids	not applicable not applicable	
Self-reactive substances and mixtures	not applicable 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	net applicable	
Oxidising liquids	not applicable	
Oxidising solids	not applicable	
Organic peroxides	not applicable	
Corrosive to metals	not applicable	
Desensitised explosives	not applicable	

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PRODUCT :	GINGER OLEORESIN		
SECTION 10.	Stability and reactivity		(continued of page 5)
10.1 Reactiv			
10.2 Chemic	al stability		
	lity of hazardous reactions reactions known.		
10.4 Conditi No further rele	ons to avoid evant information available.		
	oatible materials: evant information available.		
10.6 Hazard Not determine	ous decomposition products: d.		
SECTION 11:	Toxicological information		
11.1 Informa	ation on hazard classes as defined in Regu	lation (EC) No 1272/2008	
Acute toxLD/LC50 \	icity values relevant for classification:		
		ISO LD/LC	
470-82-6 Oral, LD50	Eucalyptol : 3849 mg/kg (mouse) (Jiao Xu, 2014)		
5989-27-5	(R)- p-mentha-1,8-diene : 4400 mg/kg (rat)		
5392-40-5 Oral, LD50	Citral : 4960 mg/kg (rat)		
105-87-3 Oral, LD50	Geranyl acetate : >4000 mg/kg (rat) (NTP 1987)		
	Linalool : 2790 mg/kg (rat) :50: 5610 mg/kg (Rabbit)		
97-54-1 Oral, LD50	isoeugenol : 1560 mg/kg (rat)		

- Oral, LD50: 1560 mg/kg (rat)
- Primary irritant effect:
- Skin corrosion/irritation
- No irritant effect. • Serious eye damage/irritation
- No irritating effect. Respiratory or skin sensitisation No sensitizing effects known. •
- · Germ cell mutagenicity
- 470-82-6 Eucalyptol
- OECD 471 AMES: NEGATIVE (in vitro) (Haworth, 1983)
- 105-87-3 Geranyl acetate OECD 471 AMES: NEGATIVE (in vitro) (NTP 1987)
- 78-70-6 Linalool
- OECD 471 AMES: NEGATIVE (in vitro) (Letizia and al., 2007) 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)
 - Reproductive toxicity
 - Not determined. STOT-single exposure
 - Not determined.
 - STOT-repeated exposure Not determined.



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PRODUCT : GINGER OLEORESIN	
 Aspiration hazard Not determined. * Subacute to chronic toxicity: Not determined. 11.2 Information on other hazards Endocrine disrupting properties Substance is not listed. 	(continued of page 6)
SECTION 12: Ecological information	
12.1 Toxicity	
 Aquatic toxicity: * 5989-27-5 (R)-p-mentha-1,8-diene 	
* LD50: 0,71 mg/l (fish) (OECD 203)	
* 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.	
 vPvB: Not applicable. 	
12.6 Endocrine disrupting properties The product does not contain substances with endocrine disrupting properties.	
12.6 Other adverse effects	
No further relevant information available. • Ecotoxical effects:	
Not determined.	
Remark: Toxic for fish	
Additional ecological information:General notes:	
Toxic for aquatic organisms The material is harmful to the environment.	
SECTION 13: Disposal considerations	
13.1 Waste treatment methods	
 Recommendation Must be specially treated adhering to official regulations. 	

- cially treated adhering to official regulations. be spe
- Uncleaned packaging:
- Recommendation: Disposal must be made according to official regulations. •
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	PRODUCT : GI	INGER OLEORESIN	
	SECTION 14: Tra	ansport information	(continued of page 7)
	14.1 UN number ADR IMDG		
	IATA 14.2 UN proper	UN3082 shipping name	
*	ADR	3082 ENVIRONMENTALLY HAZARDO (ZINGIBER OFFICINALE ROSCOE)	
*	IMDG	OFFICINALE ROSCOE)	UBSTANCE, LIQUID, N.O.S. (ZINGIBER
	IATA 14.3 Transport I	OFFICINALE ROSCOE)	UBSTANCE, LIQUID, N.O.S. (ZINGIBER
	ADR		
	Class Label	9 (M6) Miscellaneous dangerous substa	nces and articles.
	IMDG		
	Class Label	9 Miscellaneous dangerous substances 9	and articles.
	IATA Class	0 Misselleneous dengerous substances	and articles
	Label	9 Miscellaneous dangerous substances	and anticles.
	14.4 Packing gro		
	ADR IMDG		
	IATA	III	
	14.5 Environme Marine pollutant:		
	14.6 Special pre Warning: Miscellar Danger code (Ker	ecautions for user neous dangerous substances and articles. mler):	
	EMS Number:	F-A,S-F	
	14.7 Maritime tr Not applicable.	ransport in bulk according to IMO instruments	
	 Transport/Add Not applicable. ADR 	ditional information:	
	Excepted quantiti	ies (EQ): E1	(continued on page 9)



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PRODUCT :	GINGER OLEORESIN
Roboer :	(continued of page 8
Limited quan	
Transport car	
Tunnel restri	
IMDG	
	tities (LQ) 5L
Limited quan	
Excepted qua	
	l Regulation": IVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (ZINGIBER
	E ROSCOE), 9, III
	Regulatory information
	health and environmental regulations/legislation specific for the substance or mixture E 2011/65/EU on the restriction of the use of certain hazardous substances in electrical
	onic equipment - Annex II
	s not listed.
	ON (EU) 2019/1148
	RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing
under Art	Cle 5(3)) s not listed.
	REPORTABLE EXPLOSIVES PRECURSORS
Substance	s not listed.
	n (EC) No 273/2004 on drug precursors
	s not listed. n (EC) No 111/2005 laying down rules for the monitoring of trade between the
	y and third countries in drug precursors
	s not listed.
. National .	
 National r 	
 Technical 	instructions (air):
 Class Sha 	
I (),06
Waterhaz	ard class.
	rd class 1 (Self-assessment): slightly hazardous for water.
15.2 Chemic	al safety assessment:
	fety Assessment has not been carried out.
SECTION 16:	Other information
	n in this safety data sheet is based on the state of our knowledge at the date indicated. The
	this sheet must be regarded as a description of the safety requirements for the product, they are not
	ed a warranty or quality specification and have no contractual value on properties and application The information contained in this safety data sheet relate to the specific material designated and may
not be valid w	ith respect to the product associated with another product or process, unless it is specified in the text
of this docume	
	nformation complies with EU regulations in force. It does not exempt the user from knowing and e national regulations in force.
 Relevant 	5
H226	Flammable liquid and vapour.
H302 H304	Harmful if swallowed. May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage. Causes serious eye irritation.
H319	Very toxic to aquatic life.
H319 H400	Very toxic to aquatic life with long lasting effects.
H400 H410	
H400	Harmful to aquatic life with long lasting effects.
H400 H410	Harmful to aquatic life with long lasting effects.



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PRODUCT :	GINGER OLEORESIN
purpose of labeling of • Date of pr 20.12.2022	<i>(continued of page 9)</i> raining in occupational risk prevention is recommended for personnel who will handle this product, in the facilitating the understanding and interpretation of this form of safety data in the same way as the the product. revious version: umber of previous version:
IFRA:Interr ADR: Accor the Interna RID: Règle Concerning IMDG: Inte DOT: US DU IATA: Inter ICAO: Inter GHS: Globa EINECS: Eu ELINCS: Eu CAS: Chem LC50: Letha LD50: Letha PBT: Persis	ions and acronyms: national Fragrance Association IOFI:International Organization of the Flavor Industry d européen sur le transport des marchandises dangereuses par Route (European Agreement concerning tional Carriage of Dangerous Goods by Road) ment international concernant le transport des marchandises dangereuses par chemin de fer (Regulations the International Transport of Dangerous Goods by Rail) rnational Maritime Code for Dangerous Goods epartment of Transport Association national Air Transport Association national Civil Aviation Organisation ally Harmonised System of Classification and Labelling of Chemicals ropean List of Notified Chemical Substances ical Abstracts Service (division of the American Chemical Society) al concentration, 50 percent al dose, 50 percent tent, Bioaccumulative and Toxic Persistent and very Bioaccumulative
	Labelling Manual,REACH registration dossier, supplier information mpared to the previous version altered.