

1644005

Reviewed on: 05.21.2025
Printing date: 05.21.2025

01 Identification

1.1 Product identifier

- Trade name:
TUBEROSE ARTESSENCE
- Article number:
E4987

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

- 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

02 Hazard(s) identification

2.1 Classification of the substance or mixture

*



GHS05

*

Eye Damage 1 - H318 Causes serious eye damage.



GHS07

*

Sensitization - Skin 1 - H317 May cause an allergic skin reaction.

*



GHS08

*

Toxic to Reproduction 2 - H361 Suspected of damaging fertility or the unborn child.

*

H227 Combustible liquid.



GHS09

*

Aquatic Chronic 2 - H411 Toxic to aquatic life with long lasting effects.

*

H401 Toxic to aquatic life.

*

2.2 Label elements

- GHS label elements
- Hazard pictograms

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*

GHS05

GHS07

GHS08

GHS09

*

- Signal word

*

Danger

- Hazard statements

H227 Combustible liquid.

H317 May cause an allergic skin reaction.

*

H318 Causes serious eye damage.

*

H361 Suspected of damaging fertility or the unborn child.

*

H411 Toxic to aquatic life with long lasting effects.

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- Precautionary statements
- * P201 Obtain special instructions before use.
- * P202 Do not handle until all safety precautions have been read and understood.
- * P210 Keep away from flames and hot surfaces. No smoking.
- * P302+P352 If on skin: Wash with plenty of water.
- * P403+P235 Store in a well-ventilated place. Keep cool.
- * P501 Dispose of contents/container in accordance with local/regional/ national/international regulations.

03 Composition/information on ingredients

3.2 Chemical characterization: Mixtures

- Description:
Mixture

- Dangerous components:

CAS Number		%
93-16-3	methyl isoeugenol *+	5,001-10,00
	EC Number: 202-224-6	
111753-62-9	anthranolene	5,001-10,00
*	EC Number: 601-114-9	
13475-82-6	solis-isododecane	5,001-10,00
*	EC Number: 236-757-0	
120-51-4	BENZYL BENZOATE	5,001-10,00
*	EC Number: 204-402-9	
100-51-6	benzyl alcohol	1,001- 5,000
*	EC Number: 202-859-9	
134-20-3	methyl anthranilate	1,001- 5,000
*	EC Number: 205-132-4	
118-58-1	BENZYL SALICYLATE	1,001- 5,000
*	EC Number: 204-262-9	
4602-84-0	farnesol	1,001- 5,000
*	EC Number: 225-004-1	
119-36-8	METHYL SALICYLATE	1,001- 5,000
*	EC Number: 204-317-7	
93-58-3	METHYL BENZOATE	1,001- 5,000
*	EC Number: 202-259-7	
301-00-8	Linolenate de methyle	1,001- 5,000
*	EC Number: 206-102-3	
10482-56-1	p-menth-1-ene-8-ol (terpineol alpha)	1,001- 5,000
*	EC Number: 233-986-8	
78-70-6	LINALOOL	0,101-1,000
*	EC Number: 201-134-4	
470-82-6	EUCALYPTOL	0,101-1,000
*	EC Number: 207-431-5	
115-95-7	LINALYL ACETATE	0,101-1,000
*	EC Number: 204-116-4	
106-24-1	GERANIOL	0,101-1,000
*	EC Number: 203-377-1	
120-72-9	indol	0,101-1,000
*	EC Number: 204-420-7	
91-64-5	COUMARIN	0,101-1,000
*	EC Number: 202-086-7	
5989-27-5	LIMONENE	0,101-1,000
*	EC Number: 227-813-5	

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04 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.

05 Fire-fighting measures

- Suitable extinguishing agents:
CO2, sand, extinguishing powder. Do not use water.
Use fire fighting measures that suit the environment.
 - For safety reasons unsuitable extinguishing agents:
Water with full jet
- 5.2 Special hazards arising from the substance or mixture
Formation of toxic gases is possible during heating or in case of fire.
- Protective equipment:
Do not inhale explosion gases or combustion gases.
 - Additional information
Cool endangered receptacles with water spray.

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
- * 6.3 Methods and material for containment and cleaning up:
Dispose contaminated material as waste according to item 13.
- 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.

07 Handling and storage

- Handling:
- * 7.1 Precautions for safe handling
Keep receptacles tightly sealed.
Keep away from heat and direct sunlight.
Ensure good ventilation/exhaustion at the workplace.
- * Open and handle receptacle with care.
Handle with care. Avoid jolting, friction and impact.
- Information about protection against explosions and fires:
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.
- Storage:
- Requirements to be met by storerooms and receptacles:
Store only in the original receptacle.
Prevent any seepage into the ground.
Use only receptacles specifically permitted for this substance/ product.
 - Further information about storage conditions:
Keep receptacle tightly sealed.
Protect from heat and direct sunlight.
Store receptacle in a well ventilated area.

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7.3 Specific end use(s)
No further relevant information available.

08 Exposure controls/personal protection

- Components with limit values that require monitoring at the workplace:
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- CAS No. Designation of material % Type Value Unit
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- Additional information:
The lists that were valid during the creation were used as basis.
- Personal protective equipment:
- * • General protective and hygienic measures:
The usual precautionary measures for handling chemicals should be followed.
- * • Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
- * • Store protective clothing separately.
- * • Avoid contact with the skin.
- * • Avoid contact with the eyes.
- * • Breathing equipment:
Use suitable respiratory protective device in case of insufficient ventilation.
- Protection of hands:
Protective gloves
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
- Material of gloves
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
- Penetration time of glove material
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- Eye protection:
Safety glasses
- * Safety glasses

09 Physical and chemical properties

General Information	
Appearance:	
Form:	fluid
Color:	orange-yellow
Odor:	floral
Odor threshold:	Not determined.
Change in condition	
Boiling point/Boiling range:	Undetermined.
Flash point:	82,0 °C NFT 60-103 CC
Flammability (solid, gaseous):	Undetermined.
Auto igniting:	Not determined.
Danger of explosion:	Undetermined.
Vapor pressure:	Not determined.
Density:	Not determined.
Relative density	0,9750 0,9900 D 20/20
Solubility in / Miscibility with	
Water:	Not determined.
Partition coefficient (n-octanol/water):	Not determined.

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Other information

No further relevant information available.

10 Stability and reactivity

- Thermal decomposition / conditions to be avoided:
Undetermined.
- Incompatible materials:
No further relevant information available.
- Hazardous decomposition products:
Undetermined.

11 Toxicological information

- Acute toxicity:
- LD/LC50 values that are relevant for classification:

ISO LD/LC

- * **120-51-4 BENZYL BENZOATE**
Oral, LD50: 1700 mg/kg (rat)
Oral, LD50: 3450 mg/kg (mouse) (Bier, 1979)
Dermal, LD50: 4000 mg/kg (Rabbit)
- * **100-51-6 BENZYL ALCOHOL**
Oral, LD50: 1230 mg/kg (rat)
Dermal, LD50: 2000 mg/kg (Rabbit)
Inhalative, LC50/4h: >12 mg/l (rat) (CIR assessment 2017)
- 134-20-3 methyl anthranilate**
Oral, LD50: 2910 mg/kg (rat)
Dermal, LD50: >5000 mg/kg (Rabbit)
- * **4602-84-0 FARNESOL**
Oral, LD50: 20000 mg/kg (rat)
Dermal, LD50: 15000 mg/kg (rat)
- * **119-36-8 METHYL SALICYLATE**
Oral, LD50: 890 mg/kg (ETA)
Oral, LD50: 887 mg/kg (rat)
- * **93-58-3 METHYL BENZOATE**
Oral, LD50: 1177 mg/kg (rat)
- * **10482-56-1 TERPINEOL**
Oral, LD50: 5170 mg/kg (rat) (Handbook of preservatives 2004)
- * **78-70-6 LINALOOL**
Oral, LD50: 2790 mg/kg (rat)
Dermal, LD50: 5610 mg/kg (Rabbit)
- * **470-82-6 EUCALYPTOL**
Oral, LD50: 3849 mg/kg (mouse) (Jiao Xu, 2014)
- * **120-72-9 indol**
Oral, LD50: 1000 mg/kg (rat)
Dermal, LD50: 790 mg/kg (Rabbit)
- * **91-64-5 COUMARIN**
Oral, LD50: 293 mg/kg (rat)
- * **5989-27-5 LIMONENE**
Oral, LD50: 4400 mg/kg (rat)
- Primary irritant effect:
- on the skin:
No irritant effect.
- * • on the eye:
- * **100-51-6 BENZYL ALCOHOL**
Irritation of eyes, OECD 405 DRAIZE: IRRITANT (Rabbit) (CIR assessment 2017)
Strong irritant with the danger of severe eye injury.
Causes serious eye damage.
- * • Sensitization:
- * **120-51-4 BENZYL BENZOATE**
Sensitization, NESIL: 59000 ug/cm2 (human being) (Standard IFRA)

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- * **100-51-6 BENZYL ALCOHOL**
Sensitization, NESIL: 5900 ug/cm² (human being) (IFRA STANDARD)
Sensitization possible through skin contact.
 - Subacute to chronic toxicity:
- * **100-51-6 BENZYL ALCOHOL**
Oral, NOAEL: > 400 mg/kg (rat) (CIR assessment 2017)
 - Additional toxicological information:
The product shows the following dangers according to internally approved calculation methods for preparations:
- * Harmful
- * Corrosive
- * Irritant
- * The product can cause deformations.
Carcinogenic if inhaled.
 - Specific target organ toxicity - single exposure
Not determined.
 - Specific target organ toxicity - repeated exposure
Not determined.

12 Ecological information

- Aquatic toxicity:
- * **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)
- * **115-95-7 LINALYL ACETATE**
ErC50(0-72h): 9,6 mg/l (algae) (RIFM 2015)
ErC50(0-48h): 15 mg/l (daphnia) (RIFM 2015)
96h-LC50: 11 mg/l (fish) (RIFM 1998)
- * **91-64-5 COUMARIN**
CE50/48h: 30 mg/l (daphnia) (RIFM 2019)
- * **5989-27-5 LIMONENE**
LD50: 0,71 mg/l (fish) (OECD 203)
- Persistence and degradability
No further relevant information available.
- Behavior in environmental systems:
Not determined.
- Bioaccumulative potential
No further relevant information available.
- Ecotoxicological effects:
Not determined.
- Additional ecological information:
- General notes:
Toxic for aquatic organisms
The product contains materials that are harmful to the environment.

13 Disposal considerations

- Waste treatment methods
- Recommendation:
Must be specially treated adhering to official regulations.
- Uncleaned packagings:
- Recommendation:
Disposal must be made according to official regulations.

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14 Transport information

- UN-Number
- . DOT UN3082
- . ADR UN3082
- . IMDG UN3082
- . IATA UN3082
- * • UN proper shipping name
- * . DOT ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
- * . ADR 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
- * . IMDG ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
- * . IATA ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

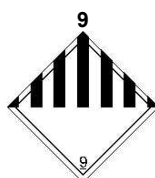
• Transport hazard class(es)

. DOT

. Class

9 Miscellaneous dangerous substances and articles

. Label

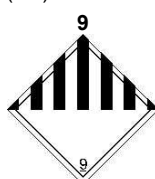


. ADR

. Class

9 (M6) Miscellaneous dangerous substances and articles

. Label

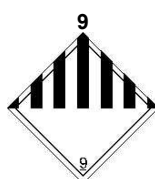


. IMDG

. Class

9 Miscellaneous dangerous substances and articles

. Label

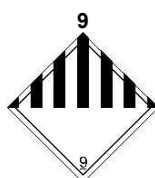


. IATA

. Class

9 Miscellaneous dangerous substances and articles

. Label



• Packing group

. DOT

III

. ADR

III

. IMDG

III

. IATA

III

• Environmental hazards:

. Marine pollutant:

Yes

• Special precautions for user

Warning: Miscellaneous dangerous substances and articles

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- . **Danger code (Kemler):** 90
- . **EMS Number:** F-A,S-F
- Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code
Not applicable.
- * • Transport/Additional information:
- . **DOT**
- . **Quantity limitations** On passenger aircraft/rail: 450 L On cargo aircraft only: 450 L
- . **IMDG**
- . **Limited quantities (LQ)** 5L
- . **Excepted quantities (EQ)** E1
- * • UN "Model Regulation":
- * UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., 9, III

15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture
Non-mandatory

16 Other information

The information in this safety data sheet is based on the state of our knowledge at the date indicated. The 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 US 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 vapor.
 - H227 Combustible liquid.
 - H302 Harmful if swallowed.
 - H304 May be fatal if swallowed and enters airways.
 - * H311 Toxic in contact with skin.
 - * H315 Causes skin irritation.
 - * H317 May cause an allergic skin reaction.
 - * H318 Causes serious eye damage.
 - * H319 Causes serious eye irritation.
 - * H320 Causes eye irritation.
 - * H361 Suspected of damaging fertility or the unborn child.
 - * H400 Very toxic to aquatic life.
 - * H401 Toxic to aquatic life.
 - * H402 Harmful to aquatic life.
 - * H411 Toxic to aquatic life with long lasting effects.
 - * H412 Harmful to aquatic life with long lasting effects.
 - * H413 May cause long lasting harmful effects to aquatic life.
- **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.
- **Date of preparation / last revision**
21.05.2025
- **Abbreviations and acronyms:**
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)
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
DOT: US Department of Transportation
IATA: International Air Transport Association

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ICAO: International Civil Aviation Organisation
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent

- Sources
IFRA/IOFI Labelling Manual, REACH registration dossier, supplier information
- * Data compared to the previous version altered.