

Safety Data Sheet
according to 29 CFR 1910.1200

1735401

Reviewed on: 16/08/19
Printing date: 16/08/2019

* **01 Identification**

1.1 Product identifier

- Trade name:
TUBEROSE ABSOLUTE
- Article number:
F2960
- CAS Number:
8024-05-3
- EC Number:
305-108-4

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 Béliis 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



GHS07

Acute Tox. 4 - H332 Harmful if inhaled.
Skin Sens. 1 - H317 May cause an allergic skin reaction.

H402 Harmful to aquatic life.
Aquatic Chronic 3 - H412 Harmful to aquatic life with long lasting effects.

2.2 Label elements

- GHS label elements
- Hazard pictograms



GHS07

- Signal word
Warning

- Hazard statements
H332 Harmful if inhaled.
H317 May cause an allergic skin reaction.
H412 Harmful to aquatic life with long lasting effects.

- Precautionary statements
P261 Avoid breathing dust/fume/gas/mist/vapors/spray
P271 Use only outdoors or in a well-ventilated area.
P272 Contaminated work clothing must not be allowed out of the workplace.
P273 Avoid release to the environment.
P302+P352 If on skin: Wash with plenty of water.
P501 Dispose of contents/container in accordance with local/regional/ national/international regulations.

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03 Composition/information on ingredients

3.1 Chemical characterization: Substances

CAS No.	Description	%
* 8024-05-3	Polianthes tuberosa L.	
	• Identification number(s)	
	• EC Number: 305-108-4	
	• Dangerous components:	
CAS Number		%
* 119-36-8	methyl salicylate	1,001- 5,00
	EC Number: 204-317-7	
* 120-51-4	benzyl benzoate	1,001- 5,00
	EC Number: 204-402-9	
* 93-15-2	methyl eugenol	0,101-1,00
	EC Number: 202-223-0	
* 118-58-1	benzyl salicylate	0,101-1,00
* 97-54-1	isoeugenol	0,101-1,00
* 4602-84-0	farnesol	0,101-1,00
	EC Number: 225-004-1	
* 97-53-0	eugenol	0,101-1,00
	EC Number: 202-589-1	
* 78-70-6	linalol	0,101-1,00
	EC Number: 201-134-4	
* 470-82-6	eucalyptol	0,101-1,00
	EC Number: 207-431-5	
* 140-29-4	cyanure benzyle	0,101-1,00
	EC Number: 205-410-5	

04 First-aid measures

- General information:
Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
- * 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.
- 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:

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- Mount respiratory protective device.
- 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.
 - 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.

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.
 - 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:
 - Not required.
- CAS No.** **Designation of material** **%** **Type** **Value Unit**
- Not required.
- 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.
 - * Wash hands before breaks and at the end of work.
 - * Store protective clothing separately.
 - Avoid contact with the skin.
 - Breathing equipment: In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air. Use suitable respiratory protective device in case of insufficient ventilation.

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- 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.
- 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

09 Physical and chemical properties

General Information

Appearance:

Form:	liquid to semi-crystallized
Color:	red-brown
Odor:	floral
Odor threshold:	Not determined.

Change in condition

Boiling point/Boiling range: Undetermined.

* **Flash point:** > 100,0 °C NFTA 60-103 CC

Flammability (solid, gaseous): Undetermined.

* **Auto igniting:** Not determined.

Danger of explosion: Undetermined.

Vapor pressure: Not determined.

Density: Not determined.

Relative density 0,9520 0,9920 (D20/20)

Solubility in / Miscibility with

Water: Not determined.

Partition coefficient (n-octanol/water): Not determined.

* **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

- * **119-36-8 methyl salicylate**
- * Oral, LD50: 887 mg/kg (rat)
- * **120-51-4 benzyl benzoate**

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- * Oral, LD50: 1700 mg/kg (rat)
- * Oral, LD50: 3450 mg/kg (mouse) (Bier, 1979)
- * Dermal, LD50: 4000 mg/kg (Rabbit)
- * **93-15-2 methyl eugenol**
- * Oral, LD50: 810 mg/kg (rat) (Beroza and al., 1975)
- * **97-54-1 isoeugenol**
- * Oral, LD50: 1560 mg/kg (rat)
- * **4602-84-0 farnesol**
- * Oral, LD50: 20000 mg/kg (rat)
- * Dermal, LD50: 15000 mg/kg (rat)
- * **97-53-0 eugenol**
- * Oral, LD50: 1930 mg/kg (rat)
- * **78-70-6 linalol**
- * 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)
- * **140-29-4 cyanure benzyle**
- * Oral, LD50: 270 mg/kg (rat)
- * Dermal, LD50: 270 mg/kg (Rabbit)
- * Inhalative, LC50/4h: 0,43 mg/l (rat)
- * • Primary irritant effect:
- * • on the skin:
- * No irritant effect.
- * • on the eye:
- * No irritating effect.
- * • Sensitization:
- * **120-51-4 benzyl benzoate**
- * Sensitization, NESIL: 59000 ug/cm² (human being) (Standard IFRA)
- * Sensitization possible through skin contact.
- * • Subacute to chronic toxicity:
- * Undetermined.
- * • OSHA-Ca (Occupational Safety & Health Administration)
- * Substance is not listed.

12 Ecological information

- * • Aquatic toxicity:
- * **93-15-2 methyl eugenol**
- * CE50/48h: 38 mg/l (daphnia) (Ministry of the Environment of Japan 2018)
- * ErC50(0-72h): 22 mg/l (algae) (Ministry of the Environment of Japan 2018)
- * 96h-LC50: 14 mg/l (fish) (Ministry of the Environment of Japan 2018)
- * **78-70-6 linalol**
- * 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)
- * • 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:
- * Harmful to aquatic organisms
- * The material is harmful to the environment.

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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.

14 Transport information

- UN-Number
- DOT** Void
- ADR** Void
- IMDG** Void
- IATA** Void
- UN proper shipping name
- DOT** Void
- ADR** Void
- IMDG** Void
- IATA** Void
- Transport hazard class(es)
- DOT**
- Class** Void
- ADR**
- Class** Void
- IMDG**
- Class** Void
- IATA**
- Class** Void
- Packing group
- DOT** Void
- ADR** Void
- IMDG** Void
- IATA** Void

- Environmental hazards:
Not applicable.
- Special precautions for user
- * Not applicable.
- Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code
Not applicable.
- Transport/Additional information:
Not applicable.

15 Regulatory information

- * • Safety, health and environmental regulations/legislation specific for the substance or mixture
Non-mandatory
- * • Hazardous Air Pollutants
Substance is not listed.

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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.
*	H301	Toxic if swallowed.
*	H302	Harmful if swallowed.
*	H311	Toxic in contact with skin.
*	H312	Harmful in contact with skin.
*	H315	Causes skin irritation.
*	H317	May cause an allergic skin reaction.
*	H319	Causes serious eye irritation.
*	H320	Causes eye irritation.
*	H330	Fatal if inhaled.
*	H341	Suspected of causing genetic defects.
*	H351	Suspected of causing cancer.
*	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.

- 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

* 16.08.2019

- 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
 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.