

1652804

Reviewed on: 19.12.2022
Printing date: 19.12.2022

SECTION 01: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

- Trade name:
CLARY SAGE ABSOLUTE
- Article number:
F2630
- CAS Number:
84775-83-7
- EC Number:
283-911-8

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:

- | | |
|----------------------------------------------------------------------------------------|-----------------------------------------------------------------|
| <p>* BIOLANDES, BP2</p> <p>* 2760 Route de Bélis</p> <p>40420 LE SEN</p> <p>FRANCE</p> | <p>TEL: +33(0)5.58.51.00.00</p> <p>email: fds@biolandes.com</p> |
|----------------------------------------------------------------------------------------|-----------------------------------------------------------------|

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



GHS07

Skin Irrit. 2 - H315 Causes skin irritation.

Eye Irrit. 2 - H319 Causes serious eye 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



GHS07

- Signal word
Warning

- Hazard-determining components of labelling:

* Linalool / geraniol / Coumarin

- Hazard statements

H315 Causes skin irritation.

* H317 May cause an allergic skin reaction.

* H319 Causes serious eye irritation.

- 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.

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.

(continued on page 2)

1652804

Reviewed on: 19.12.2022
Printing date: 19.12.2022

PRODUCT : CLARY SAGE ABSOLUTE

(continued of page 1)

- vPvB:
Not applicable.
- Determination of endocrine-disrupting properties
- * None of the ingredients is listed.

SECTION 03: Composition/information on ingredients

• 3.2 Mixtures		
• Description:		
Mixture		
• Dangerous components:		
CAS Number		%
115-95-7	Linalyl acetate	10,001-20,00
*	EC number: 204-116-4	
*	⚠ Skin Irrit. 2 - H315, Eye Irrit. 2 -	
*	H319, Skin Sens. 1 - H317	
78-70-6	Linalool	1,001- 5,00
*	EC number: 201-134-4	
*	⚠ Skin Irrit. 2 - H315, Eye Irrit. 2 -	
*	H319, Skin Sens. 1B - H317	
105-87-3	Geranyl acetate	0,101-1,00
*	EC number: 203-341-5	
*	⚠ Skin Irrit. 2 - H315, Skin Sens. 1B -	
*	H317; Aquatic Chronic 3 - H412	
87-44-5	beta-Caryophyllene	0,101-1,00
*	EC number: 201-746-1	
*	⚠ Asp. Tox. 1 - H304; ⚠ Skin Sens.	
*	1B - H317	
106-24-1	geraniol	0,101-1,00
*	EC number: 203-377-1	
*	⚠ Eye Dam. 1 - H318; ⚠ Skin Irrit. 2	
*	- H315, Skin Sens. 1 - H317	
91-64-5	Coumarin	0,01-0,100
*	EC number: 202-086-7	
*	⚠ Acute Tox. 4 - H302, Skin Sens. 1B -	
*	H317	
• Additional information:		
* For the wording of the listed risk phrases refer to section 16.		

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:

(continued on page 3)

1652804

Reviewed on: 19.12.2022
Printing date: 19.12.2022

PRODUCT : CLARY SAGE ABSOLUTE
(continued of page 2)

4.2 Most important symptoms and effects, both acute and delayed
No further relevant information available.

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 jet

- * 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.

(continued on page 4)

1652804

Reviewed on: 19.12.2022
Printing date: 19.12.2022

PRODUCT : CLARY SAGE ABSOLUTE

(continued of page 3)

Store receptacle in a well ventilated area.

7.3 Specific end use(s)

No further relevant information available.

*** SECTION 08: Exposure controls/personal protection**

8.1 Control parameters

- Ingredients 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.
- Additional information:
The lists valid during the making were used as basis.

8.2 Exposure controls

- Individual protection measures, such as personal protective equipment
- General protective and hygienic measures:
* The usual precautionary measures are to be adhered to when handling chemicals.
Keep away from foodstuffs, beverages and feed.
* Immediately remove all soiled and contaminated clothing
* Wash hands before breaks and at the end of work.
* Do not inhale gases / fumes / aerosols.
* Do not inhale dust / smoke / mist.
Avoid contact with the eyes.
- Respiratory protection:
* In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.
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/face protection
Safety glasses

SECTION 09: Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information

*	Physical state	Fluid
	Colour:	green-brown
	Odour:	agrestic
	Odour threshold:	Not determined.
	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.
*	pH	Not determined.

(continued on page 5)

1652804

Reviewed on: 19.12.2022
Printing date: 19.12.2022

PRODUCT : CLARY SAGE ABSOLUTE

(continued of page 4)

*	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	Not determined.
*	Vapour density	Not determined.
	9.2 Other information	No further relevant information available.
	Appearance:	
	Form:	very viscous to pasty
Important information on protection of health 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 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.

(continued on page 6)

1652804

Reviewed on: 19.12.2022
Printing date: 19.12.2022

PRODUCT : CLARY SAGE ABSOLUTE

(continued of page 5)

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

78-70-6 Linalool

Oral, LD50: 2790 mg/kg (rat)
Dermal, LD50: 5610 mg/kg (Rabbit)

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

87-44-5 beta-Caryophyllene

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

91-64-5 Coumarin

- * Oral, LD50: 293 mg/kg (rat)
- * • Primary irritant effect:
 - Skin corrosion/irritation
Irritant to skin and mucous membranes.
 - Serious eye damage/irritation
Irritating effect.
- * Causes skin irritation.
- * Causes serious eye irritation.
- * • Respiratory or skin sensitisation
Sensitization possible through skin contact.
- * • Germ cell mutagenicity

115-95-7 Linalyl acetate

- * OECD 471 AMES: NEGATIVE (in vitro) (RIFM 1989)

78-70-6 Linalool

- * OECD 471 AMES: NEGATIVE (in vitro) (Letizia and al., 2007)

105-87-3 Geranyl acetate

- * OECD 471 AMES: NEGATIVE (in vitro) (NTP 1987)

87-44-5 beta-Caryophyllene

- * OECD 471 AMES: NEGATIVE (in vitro) (Heck and al., 1989)
- * • Carcinogenicity

78-70-6 Linalool

- * Micronoyau: NEGATIVE (mouse) (in vivo, Letizia and al., 2007)
- * Micronoyau: NEGATIVE (in vitro) (DiSotto and al., 2011)

105-87-3 Geranyl acetate

- * Micronoyau: NEGATIVE (mouse) (in vivo, Shelby 1993)

91-64-5 Coumarin

- * Micronoyau: NEGATIVE (in vitro) (RIFM 2019)

- Reproductive toxicity

Not determined.

- STOT-single exposure

Not determined.

- STOT-repeated exposure

Not determined.

- Aspiration hazard

Not determined.

- Subacute to chronic toxicity:

115-95-7 Linalyl acetate

- * Oral, NOAEL: 250 mg/kg (rat) (90days, RIFM 1980)

78-70-6 Linalool

- * Oral, NOAEL: 200 mg/kg (rat) (maternal toxicity, Politano and al., 2008)

- Additional toxicological information:

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

(continued on page 7)

1652804

Reviewed on: 19.12.2022
Printing date: 19.12.2022

PRODUCT : CLARY SAGE ABSOLUTE

(continued of page 6)

- * Irritant
- * Carcinogenic if inhaled.
- 11.2 Information on other hazards
 - Endocrine disrupting properties
- * None of the ingredients is listed.

SECTION 12: Ecological information

- 12.1 Toxicity
 - Aquatic toxicity:
- * **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)
- * **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)
- * **91-64-5 Coumarin**
 - CE50/48h: 30 mg/l (daphnia) (RIFM 2019)
- * 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.
 - Ecotoxicological effects:
 - Not determined.
 - Additional ecological information:
 - General notes:
 - Do not allow product to reach ground water, water course or sewage system.

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.

EU

(continued on page 8)

1652804

Reviewed on: 19.12.2022
Printing date: 19.12.2022

PRODUCT : CLARY SAGE ABSOLUTE
(continued of page 7)

SECTION 14: Transport information

14.1 UN number or ID number

ADR Void

IMDG Void

IATA Void

14.2 UN proper shipping name

ADR Void

IMDG Void

IATA Void

14.3 Transport hazard class(es)

ADR
Class Void

IMDG
Class Void

IATA
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.

* SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

- DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment - Annex II

* None of the ingredients is listed.

- REGULATION (EU) 2019/1148

- Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

* None of the ingredients is listed.

- Annex II - REPORTABLE EXPLOSIVES PRECURSORS

* None of the ingredients is listed.

- Regulation (EC) No 273/2004 on drug precursors

* 108-88-3 toluene : 3

- Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

* 108-88-3 toluene : 3

- National regulations:

- Technical instructions (air):

- Class Share in %

* I

* III

- Waterhazard class:

* Water hazard class 2 (Self-assessment): hazardous for water.

(continued on page 9)

1652804

Reviewed on: 19.12.2022
Printing date: 19.12.2022

PRODUCT : CLARY SAGE ABSOLUTE

(continued of page 8)

15.2 Chemical safety assessment:
A Chemical Safety Assessment has not been carried out.

SECTION 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 EU regulations in force. It does not exempt the user from knowing and applying all the national regulations in force.
 - Relevant phrases
 - * H302 Harmful if swallowed.
 - * 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.
 - * 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: 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
 - * Data compared to the previous version altered.