

2160606

Reviewed on: 24.06.2024
Printing date: 24.06.2024

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

1.1 Product identifier

- Trade name:
ARMOISE OIL
- Article number:
P00628193000
- CAS Number:
8022-37-5

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

Application of the substance / the preparation

Perfume ingredient

Flavouring agent

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



GHS02

Flam. Liq. 3 - H226 Flammable liquid and vapour.



GHS07

Acute Tox. 4 - H302 Harmful if swallowed.

Skin Irrit. 2 - H315 Causes skin irritation.

Eye Irrit. 2 - H319 Causes serious eye irritation.

Skin Sens. 1B - H317 May cause an allergic skin reaction.



GHS08

STOT SE 2 - H371 May cause damage to organs.

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

2.2 Label elements

- Labelling according to Regulation (EC) No 1272/2008
- Hazard pictograms



GHS02



GHS07



GHS08

- Signal word
Warning

- * • Hazard-determining components of labelling:
- * ALPHA-THUJONE / CAMPHOR / Eucalyptol / (R)-p-mentha-1,8-diene / ALPHA-
- * PINENE
- Hazard statements
- H226 Flammable liquid and vapour.

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- H302 Harmful if swallowed.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H371 May cause damage to organs.
H412 Harmful to aquatic life with long lasting effects.
- Precautionary statements
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233 Keep container tightly closed.
P240 Ground and bond container and receiving equipment.
P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
P403+P235 Store in a well-ventilated place. Keep cool.
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
None of the ingredients is listed.

SECTION 03: Composition/information on ingredients

- 3.2 Mixtures
- Description:
Mixture

- Dangerous components:

	CAS Number		%
*	546-80-5	ALPHA-THUJONE	20,001-50,00
		EC number: 208-912-2	
		⚠ Acute Tox. 4 - H302	
*		Oral: ATE = 500 mg/kg	
*	76-22-2	CAMPHOR	20,001-50,00
*		EC number: 200-945-0	
*		⚠ Flam. Sol. 2 - H228; ⚠ Acute Tox.	
*		4 - H302, Acute Tox. 4 - H332; ⚠ STOT SE	
*		2 - H371	
*		Oral: ATE = 500 mg/kg; Inhalative: ATE = 11	
*		mg/l	
*	1125-12-8	B-THUJONE	5,001-10,00
*		EC number: 214-405-7	
*		⚠ Acute Tox. 4 - H302	
*	79-92-5	camphene	1,001- 5,000
*		EC number: 201-234-8	
*		⚠ Flam. Sol. 1 - H228; ⚠ Eye Irrit.	
*		2 - H319; ⚠ Aquatic Acute 1 - H400 (M=1)	
*		, Aquatic Chronic 1 - H410 (M=1)	
*	470-82-6	Eucalyptol	1,001- 5,000
*		EC number: 207-431-5	
*		⚠ Flam. Liq. 3 - H226; ⚠ Skin Sens.	
*		1B - H317	
*	99-87-6	p-cymene	1,001- 5,000
*		EC number: 202-796-7	
*		⚠ Acute Tox. 3 - H331; ⚠ Asp. Tox. 1	

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*	- H304;  Flam. Liq. 3 - H226; 	
*	Aquatic Chronic 2 - H411	
*	5989-27-5 d-limonene	0,101-1,000
*	EC number: 227-813-5	
*	 Asp. Tox. 1 - H304;  Flam. Liq. 3	
*	- H226;  Skin Irrit. 2 - H315, Skin	
*	Sens. 1B - H317;  Aquatic Acute 1 -	
*	H400 (M=1); Aquatic Chronic 3 - H412	
*	99-86-5 1-isopropyl-4-methylcyclohexa-1,3-diene	0,101-1,000
*	EC number: 202-795-1	
*	 Asp. Tox. 1 - H304;  Flam. Liq. 3	
*	- H226;  Acute Tox. 4 - H302, Skin	
*	Sens. 1 - H317;  Aquatic Chronic 2 -	
*	H411	
*	80-56-8 ALPHA-PINENE	0,101-1,000
*	EC number: 201-291-9	
*	 Asp. Tox. 1 - H304;  Flam. Liq. 3	
*	- H226;  Acute Tox. 4 - H302, Skin	
*	Irrit. 2 - H315, Skin Sens. 1B - H317	
*	127-91-3 BETA-PINENE	0,101-1,000
*	EC number: 204-872-5	
*	 Asp. Tox. 1 - H304;  Flam. Liq. 3	
*	- H226;  Skin Irrit. 2 - H315, Skin	
*	Sens. 1B - H317	
*	586-62-9 TERPINOLENE	0,101-1,000
*	EC number: 209-578-0	
*	 Asp. Tox. 1 - H304;  Skin Sens.	
*	1B - H317;  Aquatic Acute 1 - H400	
*	(M=1), Aquatic Chronic 1 - H410 (M=1)	
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:
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:
Call for a doctor immediately.
- Information for doctor:

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.

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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.
Inform respective authorities in case of seepage into water course or sewage system.

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.
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.
Prevent any seepage into the ground.
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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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.
Avoid contact with the eyes.
- Respiratory protection:
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
* • Body protection:
* Impervious protective clothing
* Boots

SECTION 09: Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information

Physical state	Fluid
Colour:	yellow to dark yellow
Odour:	aromatic
Odour threshold:	Not determined.
Melting point/freezing point:	< -20,0 °C
Boiling point or initial boiling point and boiling range	96,2 °C
Flammability	Not determined.
Lower and upper explosion limit	
Lower:	Not determined.
Upper:	Not determined.
Flash point:	57,5 °C NFT 60-103 CC
Decomposition temperature:	Not determined.
pH	Not determined.
Viscosity:	
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	0,9200 0,9400 (D20/20)
Vapour density	Not determined.
9.2 Other information	No further relevant information available.
Appearance:	
Form:	fluid
Important information on protection of health and environment, and on safety.	
Auto-ignition temperature:	275 °C
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	Flammable liquid and vapour.
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.

10.5 Incompatible materials:

No further relevant information available.

10.6 Hazardous decomposition products:

Not determined.

EU

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SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

- Acute toxicity
Harmful if swallowed.
- LD/LC50 values relevant for classification:

ISO LD/LC

ARMOISE OIL

- Oral, LD50: 329 mg/kg (calculation)
- Primary irritant effect:
- Skin corrosion/irritation
Irritant to skin and mucous membranes.
Causes skin irritation.
- Serious eye damage/irritation
Irritating effect.
Causes serious eye irritation.
- Respiratory or skin sensitisation
No sensitizing effects known.
- Germ cell mutagenicity

*

*

76-22-2

CAMPHOR

OECD 471 AMES: NEGATIVE (in vitro) (Anderson and Styles 1978)

470-82-6

Eucalyptol

OECD 471 AMES: NEGATIVE (in vitro) (Haworth, 1983)

*

*

76-22-2

CAMPHOR

Micronoyau: NEGATIVE (mouse) (NTP 1999)

- Reproductive toxicity
Not determined.
- STOT-single exposure
May cause damage to organs.
- STOT-repeated exposure
Not determined.
- Aspiration hazard
Not determined.
- Subacute to chronic toxicity:

*

76-22-2

CAMPHOR

Oral, NOAEL: >800 mg/kg (rat) (fetal toxicity GD 6 to 15, NTP 1992)

- 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:
Harmful
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:

*

*

76-22-2

CAMPHOR

CE50/48h: 26,82 mg/l (daphnia)

ErC50(0-72h): 23,8 mg/l (algae)

99-87-6

p-cymene

LD50: 1,63 mg/l (fish) (OECD 203)

5989-27-5

(R)-p-mentha-1,8-diene

LD50: 0,71 mg/l (fish) (OECD 203)

12.2 Persistence and degradability

Easily biodegradable

- Behaviour in environmental systems:
Not determined.

12.3 Bioaccumulative potential

No further relevant information available.

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- 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.
 - Remark:
Harmful to fish
 - Additional ecological information:
 - General notes:
Harmful to aquatic organisms
The product contains materials that are harmful to the environment.

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 | UN1993 |
| • IMDG | UN1993 |
| • IATA | UN1993 |
- 14.2 UN proper shipping name
- | | |
|--------|---|
| • ADR | 1993 FLAMMABLE LIQUID, N.O.S. (ARTEMISIA HERBA-ALBA ASSO) |
| • IMDG | FLAMMABLE LIQUID, N.O.S. (ARTEMISIA HERBA-ALBA ASSO) |
| • IATA | FLAMMABLE LIQUID, N.O.S. (ARTEMISIA HERBA-ALBA ASSO) |
- 14.3 Transport hazard class(es)
- | | |
|---------|--|
| • ADR | |
| • Class | 3 (F1) Flammable liquids. |
| • Label | <div style="text-align: center;"> 3
  </div> |
| • IMDG | |
| • Class | 3 Flammable liquids. |
| • Label | <div style="text-align: center;"> 3
  </div> |
| • IATA | |

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. **Class** 3 Flammable liquids.

. **Label** 3



14.4 Packing group

. **ADR** III

. **IMDG** III

. **IATA** III

14.5 Environmental hazards:
Not applicable.

14.6 Special precautions for user

Warning: Flammable liquids.

. **Danger code (Kemler):** 30

. **EMS Number:** F-E,S-E

14.7 Maritime transport in bulk according to IMO instruments
Not applicable.

*

• Transport/Additional information:

. **ADR**

. **Excepted quantities (EQ):** E1

. **Limited quantities (LQ)** 5L

. **Transport category** 3

. **Tunnel restriction code** D/E

. **IMDG**

. **Limited quantities (LQ)** 5L

. **Excepted quantities (EQ)** E1

• UN "Model Regulation":

UN 1993 FLAMMABLE LIQUID, N.O.S. (ARTEMISIA HERBA-ALBA ASSO), 3, III

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

*

None of the ingredients is listed.

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

*

None of the ingredients is listed.

• National regulations:

• Technical instructions (air):

*

• Class Share in %

*

I 29,32

• Waterhazard class:

Water hazard class 1 (Self-assessment): slightly hazardous for water.

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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

H226	Flammable liquid and vapour.
H228	Flammable solid.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H371	May cause damage to organs.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
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 previous version:

*

19.12.2022

*

- Version number of previous version:

*

2.00

- 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
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative

- Sources

IFRA/IOFI Labelling Manual,REACH registration dossier,supplier information

- * Data compared to the previous version altered.