

2618803

Reviewed on: 11.15.2024
Printing date: 11.15.2024

01 Identification

1.1 Product identifier

- Trade name:
TAGETE OIL
- Article number:
E4866
- CAS Number:
8016-84-0
- EC Number:
294--86-2-7

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



GHS08

Aspiration Hazard 1 - H304 May be fatal if swallowed and enters airways.



GHS02

Flammable Liquids 3 - H226 Flammable liquid and vapor.



GHS07

- * Skin Irritation 2 - H315 Causes skin irritation.
Sensitization - Skin 1B - H317 May cause an allergic skin reaction.



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



GHS08



GHS02



GHS07



GHS09

- Signal word
Danger
- Hazard statements

(Contd. on page 2)

2618803

Reviewed on: 11.15.2024
Printing date: 11.15.2024

PRODUCT : TAGETE OIL

(Contd. of page 1)

H226 Flammable liquid and vapor.
H304 May be fatal if swallowed and enters airways.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H411 Toxic to aquatic life with long lasting effects.
- **Precautionary statements**
P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P233 Keep container tightly closed.
P240 Ground/bond container and receiving equipment.
P301+P310 If swallowed: Immediately call a poison center/doctor.
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	%
	5989-27-5 LIMONENE	5,001-10,00
	EC Number: 227-813-5	
*	13877-91-3 3,7-dimethylocta-1,3,6-triene (ocimene beta)	0,101-1,000
	EC Number: 237-641-2	
*	87-44-5 caryophyllene	0,101-1,000
	EC Number: 201-746-1	
*	78-70-6 LINALOOL	0,101-1,000
	EC Number: 201-134-4	
*	99-49-0 d-p-mentha-1(6),8-diène-2-one	0,101-1,000
	EC Number: 202-759-5	
*	470-82-6 EUCALYPTOL	0,101-1,000
	EC Number: 207-431-5	

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.
- 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.

USA

(Contd. on page 3)

2618803

Reviewed on: 11.15.2024
Printing date: 11.15.2024

PRODUCT : TAGETE OIL

(Contd. of page 2)

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.
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:
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.
Avoid contact with the skin.
- 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

(Contd. on page 4)

2618803

Reviewed on: 11.15.2024
Printing date: 11.15.2024

PRODUCT : TAGETE OIL

(Contd. of page 3)

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

09 Physical and chemical properties

General Information

Appearance:

Form:	fluid
Color:	goldy yellow
Odor:	fruit-like
Odor threshold:	Not determined.

Change in condition

Boiling point/Boiling range:	Undetermined.
Flash point:	58,5 °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	0,8450 0,8750 (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

5989-27-5 LIMONENE

Oral, LD50: 4400 mg/kg (rat)

* **87-44-5 BETA-CARYOPHYLLENE**

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

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)

- Primary irritant effect:

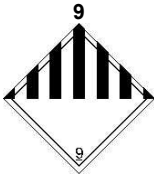






(Contd. on page 5)

2618803

Reviewed on: 11.15.2024
Printing date: 11.15.2024

PRODUCT : TAGETE OIL

(Contd. of page 5)

- . **ADR** 1197 EXTRACTS, LIQUID
 - * . **IMDG** EXTRACTS, LIQUID (TAGETES MINUTA L.)
 - . **IATA** EXTRACTS, LIQUID
 - Transport hazard class(es)
 - . **DOT**
 - . **Class** 3 Flammable liquids
 - . **Label**
- 

- . **ADR**
 - . **Class** 3 (F1) Flammable liquids
 - . **Label**
- 

- . **IMDG**
 - . **Class** 3 Flammable liquids
 - . **Label**
- 

- . **IATA**
 - . **Class** 3 Flammable liquids
 - . **Label**
- 
- Packing group
 - . **DOT** III
 - . **ADR** III
 - . **IMDG** III
 - . **IATA** III
 - Environmental hazards:
 - . **Marine pollutant:** Yes
 - Special precautions for user
 - Warning: Flammable liquids
 - . **Danger code (Kemler):** 30
 - . **EMS Number:** F-E,S-D
 - 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: 60 L On cargo aircraft only: 220 L

(Contd. on page 7)

2618803

Reviewed on: 11.15.2024
Printing date: 11.15.2024

PRODUCT : TAGETE OIL

(Contd. of page 6)

- . **IMDG**
- . **Limited quantities (LQ)** 5L
- . **Excepted quantities (EQ)** E1
- UN "Model Regulation":
UN 1197 EXTRACTS, LIQUID, 3, III, ENVIRONMENTALLY HAZARDOUS

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.
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.
H400	Very toxic to aquatic life.
H401	Toxic 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**
15.11.2024
- **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.