

CHEMICAL SAFETY DATA SHEET
according to 1907/2006/EC Article 31, as amended by N°
453/2010

1424604

 Reviewed on: 12/08/19
Printing date: 12/08/2019

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

1.1 Product identifier

- Trade name:
BLACK PEPPER OIL
- Article number:
F2079
- CAS Number:
8006-82-4
- EC Number:
284-524-7
- No CAS EINECS:
84929-41-9

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



GHS08

Asp. Tox. 1 - H304 May be fatal if swallowed and enters airways.



GHS02

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



GHS07

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



GHS09

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

2.2 Label elements

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



GHS08



GHS02



GHS07



GHS09

- Signal word

(continued on page 2)

CHEMICAL SAFETY DATA SHEET
according to 1907/2006/EC Article 31, as amended by N°
453/2010

1424604

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PRODUCT : BLACK PEPPER OIL

(continued of page 1)

- Danger
- Hazard statements
 - H304 May be fatal if swallowed and enters airways.
 - H226 Flammable liquid and vapour.
 - 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, 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+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.
- 2.3 Other hazards
- Results of PBT and vPvB assessment
 - PBT: Not applicable.
 - vPvB: Not applicable.

SECTION 03: Composition/information on ingredients

3.1 Chemical characterization: Substances











CAS No.	Description	%
* 8006-82-4	Piper nigrum L.	
	<ul style="list-style-type: none"> • Identification number(s) • EC number: 284-524-7 	
	• Dangerous components:	
* 87-44-5	beta-Caryophyllene	20,001-50,00
	EC number: 201-746-1	
	 Asp. Tox. 1 - H304;  Skin Sens.	
	1B - H317	
* 5989-27-5	d-limonene	20,001-50,00
	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; Aquatic Chronic 3 - H412	
* 127-91-3	beta-Pinene	10,001-20,00
	EC number: 204-872-5	
	 Asp. Tox. 1 - H304;  Flam. Liq. 3	
	- H226;  Skin Irrit. 2 - H315, Skin	
	Sens. 1B - H317	
* 80-56-8	pin-2(3)-ene	10,001-20,00
	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	
* 13466-78-9	delta-3-Carene	5,001-10,00
	EC number: 236-719-3	
	 Asp. Tox. 1 - H304;  Flam. Liq. 3	

(continued on page 3)

CHEMICAL SAFETY DATA SHEET
 according to 1907/2006/EC Article 31, as amended by N°
 453/2010

1424604

 Reviewed on: 12/08/19
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PRODUCT : BLACK PEPPER OIL		
<i>(continued of page 2)</i>		
*	- H226;  Skin Irrit. 2 - H315, Skin	
*	Sens. 1B - H317	
*	470-82-6 Eucalyptol	1,001- 5,00
*	EC number: 207-431-5	
*	 Flam. Liq. 3 - H226;  Skin Sens.	
*	1B - H317	
*	123-35-3 Myrcene	1,001- 5,00
*	EC number: 204-622-5	
*	 Asp. Tox. 1 - H304;  Flam. Liq. 3	
*	- H226;  Skin Irrit. 2 - H315, Eye	
*	Irrit. 2 - H319	
*	586-62-9 Terpinolene	0,101-1,00
*	EC number: 209-578-0	
*	 Asp. Tox. 1 - H304;  Skin Sens.	
*	1B - H317;  Aquatic Acute 1 - H400,	
*	Aquatic Chronic 1 - H410	
*	78-70-6 Linalool	0,101-1,00
*	EC number: 201-134-4	
*	 Skin Irrit. 2 - H315, Eye Irrit. 2 -	
*	H319, Skin Sens. 1B - H317	

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.
- 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:

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

(continued on page 4)

CHEMICAL SAFETY DATA SHEET
according to 1907/2006/EC Article 31, as amended by N° 453/2010

1424604

 Reviewed on: 12/08/19
 Printing date: 12/08/2019

PRODUCT : BLACK PEPPER OIL
(continued of page 3)

- 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.

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
• 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 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.
 * 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.

SECTION 08: Exposure controls/personal protection
8.1 Control parameters

- Ingredients with limit values that require monitoring at the workplace:
Not required.

CAS No.	Designation of material	%	Type	Value	Unit
Not required.					

Not required.

- Additional information:

The lists valid during the making were used as basis.

8.2 Exposure controls

- Personal protective equipment:
- General protective and hygienic measures:
* The usual precautionary measures are to be adhered to when handling chemicals.

(continued on page 5)

CHEMICAL SAFETY DATA SHEET
according to 1907/2006/EC Article 31, as amended by N° 453/2010

1424604

Reviewed on: 12/08/19
 Printing date: 12/08/2019

PRODUCT : BLACK PEPPER OIL

(continued of page 4)

- * Keep away from foodstuffs, beverages and feed.
 Wash hands before breaks and at the end of work.
 Avoid contact with the skin.
- 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.
 - 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

SECTION 09: Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information

Appearance:

Form:	fluid
Colour:	pale yellow to pale blue-green
Odour:	spicy
Odour threshold:	Not determined.

Change in condition

Initial boiling point and boiling range: Not determined.

* **Flash point:** 49,0 °C NPT 60-103 CC

Flammability (solid, gas): Not determined.

* **Auto-ignition temperature:** Not determined.

Explosive properties: Not determined.

Vapour pressure: Not determined.

Density: Not determined.

Relative density : 0,8650 0,8900 (D20/20)

Solubility in / Miscibility with

water: Not determined.

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

9.2 Other information No further relevant information available.

SECTION 10: Stability and reactivity

* **10.1 Reactivity**
 No further relevant information available.

10.2 Chemical stability
 Thermal decomposition / conditions to be avoided:
 Not determined.

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.

(continued on page 6)

1424604

 Reviewed on: 12/08/19
 Printing date: 12/08/2019

PRODUCT : BLACK PEPPER OIL

(continued of page 5)

 10.6 Hazardous decomposition products:
 Not determined.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

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

ISO LD/LC

- * **87-44-5** **beta-Caryophyllene**
- * Oral, LD50: > 5000 mg/kg (rat) (Hart and Wong 1971)
- * **5989-27-5** **(R)-p-mentha-1,8-diene**
- * Oral, LD50: 4400 mg/kg (rat)
- * **13466-78-9** **delta-3-Carene**
- * Oral, LD50: 4800 mg/kg (rat) (Moreno 1975)
- * **470-82-6** **Eucalyptol**
- * Oral, LD50: 3849 mg/kg (mouse) (Jiao Xu, 2014)
- * **78-70-6** **Linalool**
- * Oral, LD50: 2790 mg/kg (rat)
- * Dermal, LD50: 5610 mg/kg (Rabbit)
- * • Primary irritant effect:
- * • Skin corrosion/irritation
 Irritant to skin and mucous membranes.
- * • Serious eye damage/irritation
 No irritating effect.
- * • Respiratory or skin sensitisation
 Sensitization possible through skin contact.
- * • Subacute to chronic toxicity:
- * **87-44-5** **beta-Caryophyllene**
- * Oral, NOAEL: 700 mg/kg (rat) (90 days Schmitt 2016)
- * • Germ cell mutagenicity
- * **87-44-5** **beta-Caryophyllene**
- * OECD 471 AMES: NEGATIVE (in vitro) (Heck and al., 1989)
- * **470-82-6** **Eucalyptol**
- * OECD 471 AMES: NEGATIVE (in vitro) (Haworth, 1983)
- * **78-70-6** **Linalool**
- * OECD 471 AMES: NEGATIVE (in vitro) (Letizia and al., 2007)
- * • Carcinogenicity
- * **78-70-6** **Linalool**
- * Micronoyau: NEGATIVE (mouse) (in vivo, Letizia and al., 2007)
- * Micronoyau: NEGATIVE (in vitro) (DiSotto and al., 2011)
- * • Reproductive toxicity
 Not determined.
- * • STOT-single exposure
 Not determined.
- * • STOT-repeated exposure
 Not determined.
- * • Aspiration hazard
 Not determined.

SECTION 12: Ecological information

12.1 Toxicity

- Aquatic toxicity:

- * **5989-27-5** **(R)-p-mentha-1,8-diene**
- * LD50: 0,71 mg/l (fish) (OECD 203)
- * **123-35-3** **Myrcene**
- * LD50: 0,51 mg/l (fish) (OECD 203)
- * CE50/48h: 0,65 mg/l (daphnia)
- * **78-70-6** **Linalool**

(continued on page 7)

CHEMICAL SAFETY DATA SHEET
according to 1907/2006/EC Article 31, as amended by N°
453/2010

1424604

 Reviewed on: 12/08/19
Printing date: 12/08/2019

PRODUCT : BLACK PEPPER OIL
(continued of page 6)

- * 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)

- * 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.

- Ecotoxicological effects:
Not determined.
- Additional ecological information:
- * • General notes:
Toxic for aquatic organisms
The material is harmful to the environment.

12.5 Results of PBT and vPvB assessment

- PBT:
Not applicable.
- vPvB:
Not applicable.

12.6 Other adverse effects
No further relevant information available.

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

ADR UN1993

IMDG UN1993

IATA UN1993

14.2 UN proper shipping name

- * **ADR** 1993 FLAMMABLE LIQUID, N.O.S. (PIPER NIGRUM L.)

- * **IMDG** FLAMMABLE LIQUID, N.O.S. (PIPER NIGRUM L.)

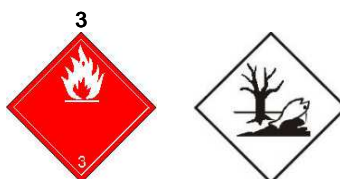
- * **IATA** FLAMMABLE LIQUID, N.O.S. (PIPER NIGRUM L.)

14.3 Transport hazard class(es)

ADR

Class 3 (F1) Flammable liquids.

Label



IMDG

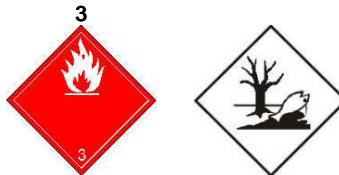
(continued on page 8)

CHEMICAL SAFETY DATA SHEET
according to 1907/2006/EC Article 31, as amended by N°
453/2010

1424604

 Reviewed on: 12/08/19
Printing date: 12/08/2019

PRODUCT : BLACK PEPPER OIL
(continued of page 7)
Class 3 Flammable liquids.

Label

IATA
Class 3 Flammable liquids.

Label


14.4 Packing group

ADR III

IMDG III

IATA III

14.5 Environmental hazards:

Marine pollutant: Yes

14.6 Special precautions for user

Warning: Flammable liquids.

Danger code (Kemler): 30

EMS Number: F-E,S-E

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

- Transport/Additional information:
Not applicable.

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. (PIPER NIGRUM L.), 3, III,
ENVIRONMENTALLY HAZARDOUS

*

SECTION 15: Regulatory information

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

- REGULATION (EC) No 1907/2006 ANNEX XVII
Conditions of restriction: 3, 40

*

- National regulations:

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

*

15.2 Chemical safety assessment:

(continued on page 9)

CHEMICAL SAFETY DATA SHEET

according to 1907/2006/EC Article 31, as amended by N°
453/2010

1424604

Reviewed on: 12/08/19
Printing date: 12/08/2019

PRODUCT : BLACK PEPPER OIL

(continued of page 8)

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.
*	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.
*	H400	Very toxic to aquatic life.
*	H410	Very 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.
 - 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.