



Material Safety Data Sheet
According to EU Regulation 1907/2006 in the current version

Date 04.12.2015
Version 1.0

BLACK PEPPER ESSENTIAL OIL

1. Identification of the substance/preparation and trade name

Trade name: Black pepper essential oil
Utilization: aromatic raw material for cosmetic and professional use
Company identification: **Elemental SRL**, Piata Cazarmii no.15, 410188-Oradea, Bihor-Romania,
Tel/Fax: +40259-436.755, www.elemental.eu
Emergency: RO: Biroul pentru Regulamentul Sanitar Internațional și Informare Toxicologică - Telefon de urgență 021 318 3606

2. Hazards Identification

EC Dir.: Harmful, flammable and dangerous for the environment.
Xn(Harmful), N(Dangerous for the environment),R10(Flammable), R38(Irritating to skin), R43(May cause sensitisation by skin contact), R50/53(Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment), R65(Harmful: may cause lung damage if swallowed), S24(Avoid contact with skin.), S37(Wear suitable gloves.), S61(Avoid release to the environment. Refer to special instructions /safety data sheets.), S62(If swallowed, do not induce vomiting; seek medical advice immediately and show this container or label.)

CLP/GHS: FL 3, AH 1, SCI 2, SS 1, EH A1,C1
SGH02, SGH07, SGH08, SGH09, H226(Flammable liquid and vapour), H304(May be fatal if swallowed and enters airways), H315(Causes skin irritation), H317(May cause an allergic skin reaction), H400(Very toxic to aquatic life), H410(Very toxic to aquatic life with long lasting effects), P262(Do not get in eyes, on skin, or on clothing), P280(Wear protective gloves/protective clothing/eye protection/face protection), P273(Avoid release to the environment), P301/330/331(IF SWALLOWED: Rinse mouth. Do NOT induce vomiting), P315(Get immediate medical advice/attention), P101(If medical advice is needed, have product container or label at hand)

Danger



3. Composition / Information on ingredients

Essential oil obtained by steam distillation of the crushed dried berries of black pepper

INCI-name: piper nigrum fruit oil

CAS-number: 84929-41-9

EINECS-number: 284-524-7

Main components: beta-caryophyllene, limonene, pinenes

Hazardous components naturally present:

alpha-Pinene N°CAS : 80-56-8 N°CE : 201-291-9 <= 12.0%

Xn R(10)-38-43-65 SGH02, SGH07, SGH08 H226-303-304-315-317 FL 3, ATO 5(3700), SCI 2, SS 1B, AH 1

beta-Pinene N°CAS : 127-91-3 N°CE : 204-872-5 <= 12.0%

Xn R(10)-38-43-65 SGH02, SGH07, SGH08 H226-304-315-317 FL 3, SCI 2, SS 1B, AH 1

Limonene N°CAS : 138-86-3 N°CE : 205-341-0 <= 17.0%

Xi,N R10-38-43-50/53 SGH07, SGH08, SGH09, SGH02 H304, 315, 317, 410, 226 AH 1, SCI 2, SS 1B, EH A1,C1, FL 3

4. First Aid



Material Safety Data Sheet
According to EU Regulation 1907/2006 in the current version

Date 04.12.2015
Version 1.0

BLACK PEPPER ESSENTIAL OIL

After excessive inhalation:	Move exposed person to fresh air. Keep the person warm and at rest. Call a doctor in case of persistence or worsening of adverse health effects. If unconscious, place the person in recovery position and call a physician immediately. Ensure good air circulation.
First aid after Skin contact:	Remove contaminated clothing. Rinse affected area with plenty of water. Contact a physician if symptoms persist.
First aid after Eye contact:	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 15 minutes. Get medical attention if irritation occurs.
First aid after Ingestion:	Rinse mouth with water. Move exposed person to fresh air. Keep the person warm and at rest. Do not induce vomiting unless directed by medical personnel. If vomiting occurs, keep head down to prevent the passage of vomit into the lungs. Call a doctor in case of persistence or worsening of adverse health effects. If unconscious, place the person in recovery position and call a physician immediately. Ensure good air circulation.

5. Fire-fighting Measures

Suitable extinguishing media:	Foam, dry chemical powder, carbon dioxide, sand or earth
Unsuitable extinguishing	Direct waterjet
Special protective equipment	Avoid vapour inhalation. Keep away from sources of ignition. Do not smoke. Wear positive pressure self-contained breathing apparatus & protective clothing.
Fire and explosion protection	Avoid open flames. Toxic vapours must be avoid during fire. Respiratory protection should be released during fire.
Other information	Closed containers may build up pressure when exposed to heat and should be cooled with water spray.

6. Accidental release measures:

Personal precautions:	Provide adequate ventilation, avoid contact with skin and eye contact. Use individual protective equipment (safety glasses, waterproof-boots, suitable protective clothing). Don't smoke. Prevent any contact with hot surfaces (see rubric 8).
Environmental precautions	Shut off source. Prevent product from entering sewerage, water courses or low lying areas. Take measures to reduce or prevent effects on ground water.
Land spill:	Gather product mechanically if possible. Bind remainings of the product with sand or other appropriate absorbent and remove. Dispose of product and contaminated absorbents in suitable containers, as directed in section 13.
Water spill:	Confine the spill immediately with booms. Warn other ships. Notify port and other relevant authorities. Remove from the surface by skimming or with suitable absorbents. In running waters, apply appropriate dispersants in accordance with local regulation.
Methods for cleaning up:	Contain spilled material, cover with an inert, non-combustible, inorganic, absorbent material and destroy according to the regulation in force.

7. Handling and Storage

Precautions for safe handling: To avoid splashing into the eyes and mucous membranes and following the arrangement of
Elemental SRL - www.elemental.eu



Material Safety Data Sheet
According to EU Regulation 1907/2006 in the current version

BLACK PEPPER ESSENTIAL OIL

the workplace and manipulations, wearing glasses and special clothing (gloves...) may be indicated. It is prohibit smoking in areas where they are handled. Do not heat with a naked flame or expose their vapors to a flame or other sources of ignition (eg electrical equipment). Do not abundantly breathe vapors. Large spillages should be contained with sand or inert powder.

Conditions for safe storage: Store in cool, dry and ventilated area, away from heat sources, sparks and open flames, protected from light in tightly closed original container

8. Exposure Controls and Personal Protection

Respiratory protection: Avoid to breath directly on the product. Ensure a good ventilation of the workroom.
Hand protection: Use protective gloves
Eye protection: Avoid contact with eyes. Use eye protectors designed to protect against liquid splashes
Before handling, wear safety goggles in accordance with standard EN166.
Physical protection: Use individual protective equipment



9. Physical and Chemical Properties

Appearance: liquid at room temperature
Colour: colourless to yellow greenish
Odour: typical
Flash point: +47°C
Specific gravity at 20°C: 0.864 to 0.886
Refractive index at 20°C: 1.478 to 1.491
Optical rotation at 20°C: -18° to -7°
Solubility(ies): insoluble in water; soluble in max 3 parts of 95% ethyl alcohol (V/V), soluble in oils

10. Stability and Reactivity

Stability: No significant modifications, respecting the storage conditions (see rubric 7).
Reactivity: This product is stable to shock, vibration and pressure under normal conditions of use. In the presence of light and heat, oxidation can occur.
Conditions to avoid: Do not heat to high temperature. Do not expose sealed containers in the sun. Keep away from sources of ignition.
Substances to avoid: Avoid contacts with strong acids, alkali or oxidizing agents.

11. Toxicological Information

Effect by ingestion: LD50 for the rat > 5000 mg/kg
Effect by dermal contact: LD50 for the rabbit > 5000 mg/kg
CMR naturally present: Toluene < 0.01% (Repro 2)
IFRA restrictions: not explicitly regulated by IFRA. Limited components listing available on technical data sheet and Section 2, 16



Material Safety Data Sheet
According to EU Regulation 1907/2006 in the current version

Date 04.12.2015
Version 1.0

BLACK PEPPER ESSENTIAL OIL

12. Ecological Information

Prevent contamination of soil, ground and surfacewater. Biodegradability not determined.

13. Disposal Considerations

Recommendation: In accordance with local environmental laws. Avoid disposing into drainage systems and into the environment.

14. Transport Information

UN no: 1169
Road (ADR/RID): UN 1169 Extracts, aromatic, liquid, 3, III
Air (IATA/ICAO): UN 1169 Extracts, aromatic, liquid, 3, III
Sea (IMDG): UN 1169 Extracts, aromatic, liquid, 3, III

15. Additional Regulatory Information

Regulations specific for the substance or mixture: not available data
Chemical safety assessment: not available data

16. Other Information

DECLARATION OF ALLERGENS

7th Amendment to Directive 76/768/EC, annex III, part I (2003/15/EC)

INCI Name	CAS No	Contents in %
2-(TERT-BUTYL PROPIONALDE) (Lilial)	80-54-6	0
3-METHYL-4-(2,6,6 TRIMETHYL-2-CYCLOHEXINE-1-YL)-3-BUTEN-2-ONE	127-51-5	0
AMYL CINNAMAL	122-40-7	0
AMYL CINNAMYL ALCOHOL	101-85-9	0
ANISYL ALCOHOL (Anise alcohol)	105-13-5	0
BENZYL ALCOHOL	100-51-6	0
BENZYL BENZOATE	120-51-4	0
BENZYL CINNAMATE	103-41-3	0
BENZYL SALICYLATE	118-58-1	0
CINNAMAL (Cinnamic Aldehyde)	104-55-2	0
CINNAMYL ALCOHOL	104-51-6	0
CITRAL	5392-40-5	0
CITRONELLOL	106-22-9	0
COUMARIN	91-64-5	0
EUGENOL	97-53-0	0
FARNESOL	4602-84-0	0
GERANIOL	106-24-1	0
HEXYL CINNAMIC ALDEHYDE (Hexyl Cinnamal)	101-86-0	0
HYDROXYCITRONELLAL	107-75-5	0



Material Safety Data Sheet
According to EU Regulation 1907/2006 in the current version

Date 04.12.2015
Version 1.0

BLACK PEPPER ESSENTIAL OIL

HYDROXYMETHYL PENTYL CYCLOHEXENE CARBOXALDEHYDE (Lyral)	31906-04-4	0
ISO EUGENOL	97-54-1	0
LIMONENE	138-86-3	<= 17
LINALOOL	78-70-6	<= 0.7
METHYL HEPTINE CARBONATE	111-12-6	0
OAK MOSS EXTRACT (Evernia Prunastri)	90028-68-5	0
TREE MOSS EXTRACT (Evernia Furfuracea)	90028-67-4	0

Disclaimer

This material safety data sheet does not constitute a guarantee of the properties of the product and is not a contractual legal report. The information is given in good faith on the basis of our best knowledge of the product at the indicated time. However, we cannot accept responsibility or liability for any consequences arising from its use, no warranty for correctness and completeness is given. We caution the users against the incurred possible risks when the product is used at other ends than the use for which it was initially planned. It is the user's responsibility during handling, storage and product use to consult the main regulatory texts in force regarding workers and environment protection.