





Safety Data Sheet

01. IDENTIFICATION OF THE SUBSTANCE/PREPARATION & THE COMPANY/UNDERTAKING

Product Name	Black Pepper Oil				
Biological Definition	The volatile oil obtained by steam distillation from the dried slightly unripe fruits of <i>Piper nigrum</i> L.				
INCI Name	Piper nigrum fruit oil.				
Synonyms & Trade Names	Pepper oil				
Supplier					
Reach Registration Number <small>(According to EU Reg 1907/2006)</small>	N/A				
FEMA No.	2847	FDA No.	182.20	CoE No.	347
CAS-No	8006-82-4	EC No.	284-524-7	EINECS No.	284-524-7

02. HAZARDS IDENTIFICATION

Classification (1999/45)	Xn Harmful N Dangerous for the environment R43-51/53-65			
Classification (EC 1272/2008)	UN-GHS: FL4, ATO5 (4000), ATD5 (4500), AH1, SCI 2, EDI 1, SS1, EH A2,C3. EU-CLP: FL 3, AH 1, SCI 2, SS 1, EH A2,C2			
Label in accordance with (EC) No 1272/2008				
	GHS02	GHS08	GHS07	GHS09
Signal Word	Danger			
Contains	Limonene, pinenes			
Hazard Statements	H226 Flammable vapour & liquid H304 May be fatal if swallowed and enters airways H315 May cause skin irritation H317 May cause an allergic skin reaction H411 Toxic to aquatic life with long-lasting effects.			
Precautionary Statements	P262 Avoid contact with skin & eyes P273 Avoid release to the environment. P280 Wear protective gloves/protective clothing/eye protection/face protection P301+P310 IF SWALLOWED immediately call a POISON CENTRE or doctor/physician. P331 Do NOT induce vomiting.			
Supplementary Precautionary Statements	P391 Collect spillage			
PBT or vPvB according to Annex XIII	Not applicable			
Adverse physio-chemical properties	This material is combustible but will not ignite readily			
Adverse effects on human health	May cause sensitisation in sensitive individuals			

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03. COMPOSITION/INFORMATION ON INGREDIENTS

28% beta-Caryophyllene UN-GHS: SCI 2
20% delta-3-Carene UN-GHS: ATO 5(4800), SCI 2, SS 1
17% Limonene UN-GHS: SCI 2, SS 1, EH A1,C1
17% Pinenes UN-GHS: ATO5(3700), SCI 2, SS 1
1% Terpinolene UN-GHS: ATO 5(3850), SCI 3, EH A2,C2
1% beta-Bisabolene UN-GHS: SCI 2, SS 1

04. FIRST AID MEASURES

General Information	See categories below
Inhalation	Remove from exposure area to fresh air. Contact a doctor if necessary.
Ingestion	Wash mouth out with water and obtain medical advice immediately.
Skin Contact	Remove contaminated clothing. Wash thoroughly with soap and water. Seek medical advice if irritation persists or there is any sign of tissue damage.
Eye Contact	Flush with plenty of water and seek medical advice if necessary.

05. FIRE-FIGHTING MEASURES

Extinguishing Media	Use CO ₂ , Dry Powder or Foam type extinguishers, spraying extinguishing media to base of flames. Do not use direct water jet on burning material.
Special Fire Fighting Procedures	Wear protective clothing. Avoid inhalation of vapours.
Specific Hazards	None
Protective Measures in Fire	Closed containers may build up pressure when exposed to heat and should be cooled with water spray

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06. ACCIDENTAL RELEASE MEASURES

Personal Precautions	Maintain good occupational and personal hygiene. Avoid contact with skin and eyes
Environmental Precautions	Do not discharge directly into drains or soil. Keep away from surface and ground water
Spill Clean Up Methods	Soak up spillage with sand or other inert material. Transfer soaked material to suitable waste container and dispose according to prevailing regulations.

07. HANDLING AND STORAGE

Usage Precautions	Apply good manufacturing practice & industrial hygiene practices, ensuring proper workplace ventilation. Observe good personal hygiene, and do not eat, drink or smoke whilst handling.
Storage Precautions	Store in tightly closed original container, in a cool, dry & ventilated area away from heat sources & protected from light. Keep air contact to a minimum.

08. EXPOSURE CONTROLS/PERSONAL PROTECTION

Protective Equipment	  Goggles Gloves Use cotton or natural fibre overalls if required.
Engineering Measures	Avoid static discharges in working area
Respiratory Equipment	Avoid breathing product vapour. Apply local ventilation where possible.
Hand Protection	Avoid all skin contact. Use chemically resistant gloves if required.
Eye Protection	Use safety glasses.
Other Protection	Ensure good ventilation of the working area
Hygiene Measures	Wash hands with soap & water after handling.

09. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Mobile liquid
Colour	Pale green or blue-green
Odour	Characteristic, warm, spicy.
Relative Density	0.864 to 0.884 @ 20°C

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Flash Point (°C)	50 c/c
Refractive Index	1.4740 to 1.4920 @ 20°C
Melting Point (°C)	Not determined
Boiling Point (°C)	166 @ 760mm Hg
Vapour Pressure	Not determined
Solubility in Water @20°C	Insoluble
Auto-ignition temperature (°C)	Not determined

10. STABILITY AND REACTIVITY

Stability	It presents no significant reactivity hazards, by itself or in contact with water.
Conditions to Avoid	Avoid storing in temperatures over 25°C.
Materials to Avoid	Avoid contact with strong acids, alkali or oxidising agents.
Hazardous Decomposition Products	Liable to cause smoke & acrid fumes during combustion: carbon monoxide, carbon dioxide & other non-identified organic compounds may be formed.

11. TOXOLOGICAL INFORMATION

Acute Toxicity	Acute dermal toxicity: not determined Acute oral toxicity: LD ₅₀ orl-rat >5000mg/kg
Skin corrosion / irritation	Not determined. Category 2 under GHS/CLP according to EU 1272/2008.
Serious eye damage / irritation	Acute eye damage: not characterised under GHS/CLP according to EU 1272/2008
Respiratory or skin sensitisation	May cause skin sensitisation (from limonene and linalool content) – listed as Skin Sensitiser Category 1 under GHS/CLP according to EU 1272/2008
Germ Cell Mutagenicity	Not listed as mutagenic by EPA, IARC, Cal Prop 69 etc.
Carcinogenicity	Not listed as carcinogenic by EPA, IARC, Cal Prop 69 etc.
Reproductive toxicity	Not listed as reprotoxic by EPA, IARC, Cal Prop 69 etc.
STOT-single exposure	Not determined

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STOT-repeated exposure	Not determined
Aspiration hazard	Acute inhalation toxicity: not determined. Classified as Category 1 under CLP/GHS.
Photo-toxicity	Not photo-toxic
Other Information	---


12. ECOLOGICAL INFORMATION

Ecotoxicity	Weight of evidence summary not available.
Mobility	Not determined
Persistence & Biodegradability	Not determined
Bioaccumulation Potential	Not determined
PBT Assessment Results	Not determined
Precautions	Avoid discharging into the environment.

13. DISPOSAL CONSIDERATIONS

Disposal Methods	Do not release into the environment. Collect waste into suitable containers and contact hazardous chemical disposal company.
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14. TRANSPORT INFORMATION

Warning Icon		
Proper Shipping Name	EXTRACTS, AROMATIC, LIQUID	
UN No. Road	UN 1169	

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ADR Class	Class 3
Hazard No (ADR)	30
Hazchem Code	+3YE
UN No. SEA	UN 1169
IMDG Class	Class 3
IMDG Pack Gr.	Pk Gp III
EMS	F-E, S-D
UN No. AIR	UN 1169
Air Class	Class 3
Air Pack Gr.	Pk Gp III

15. REGULATORY INFORMATION

EU Directives	Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 th Dec 2006 Concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 199/45/EC and repealing Council Regulation Council Regulation (EEC) No793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, and 93/105/EEC and 2000/21/EC including amendments.
Statutory Instruments	The Chemicals (Hazard Information and Packaging for Supply Regulations 2009 (S.I. 2009 No 716).
Approved Code of Practice	Classification and Labelling of Substances and Preparations Dangerous for Supply. Safety Data Sheets for Substances and Preparations
Guidance Notes	Workplace Exposure Limits EH40. CHIP for everyone HSG 108.

16. OTHER INFORMATION

Revision Date	11/2014
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Rev No/Repl, SDS Generated	1
Risk Phrases in Full	R43 May cause sensitisation by skin contact R51/53 Toxic to aquatic organisms. May cause long-term damage in the aquatic environment. R65 Harmful: may cause long-term lung damage if swallowed.
Hazard Statements in Full	H226 Flammable vapour & liquid H304 May be fatal if swallowed and enters airways H315 May cause skin irritation H317 May cause an allergic skin reaction H411 Toxic to aquatic life with long-lasting.
Other Information	Complies with REACH guidance for SDS as circulated by ECHA 2011

DISCLAIMER: This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.