The Essential Oil Company

SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

1.1 PRODUCT IDENTIFIER

PRODUCT NAME:  BLACK PEPPER OIL
BOTANICAL/CHEMICAL NAME:  Piper nigrum
MOLECULAR WEIGHT:  N/A
MOLECULAR FORMULA:  N/A
CLP REFERENCE NUMBER  N/A
REACH REGISTRATION NUMBER  N/A
REACH PREREGISTRATION NUMBER  N/A
APPLICATION OF THE SUBSTANCE:  Raw material:  Fragrance/flavor application
CAS No (TSCA)  8006-82-4
EINEC  284-524-7
FEMA No  2845
FDA No  182.200

1.2 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

The Essential Oil Company
9225 SE 7the Ave.
Portland, Oregon 97212
503-872-8772

FOR FURTHER INFORMATION, PLEASE CONTACT:

E-mail address:  Robert Seidel:  robert@essentialoil.com

EMERGENCY TELEPHONE NUMBER

800-729-5912
2. HAZARDS IDENTIFICATION

**Classification**
Classification of the substance / preparation
Classification according to Regulation (EC) No. 1272/2008
AH 1, EH A2, FL3, SC12, SSI – H304-226-315-317-411

Classification according to Directive 67/548/EEC or 1999/45/EC
Xn N R10-38-43-65-51/53

**Label elements, including precautionary statements**

**Label Elements**
Label elements according to Regulation (EC) No. 1272/2008

![Label symbols](image)

Label elements according to Directive 67/548/EEC or 1999/45/EC

![Label symbols](image)

**Classification system:**
The classification is according to the latest editions of EU lists, and extended by company and literature data.

**Additional Information:**
See section 16 for the wordings of listed R-, S-phrases, H-statements and Hazard codes.
Emergency Overview

Precautionary Statements – Prevention
Wash face, hands and any exposed skin thoroughly after handling
Wear protective gloves/protective clothing/eye protection/face protection
Avoid breathing dust/fume/gas/mist/vapors/spray
Contaminated work clothing should not be allowed in workplace
Keep away from heat/sparks/open flames/hot surfaces. –No smoking

Precautionary Statements – Response
Specific treatment (see ? on this label)
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
If eye irritation persists: Get medical advice/attention
IF ON SKIN: Wash with plenty of soap and water
Take off contaminated clothing and wash before reuse
If skin irritation or rash occurs: Get medical advice/attention
IF SWALLOWED: Immediately call POISON CENTER or doctor/physician
Do not induce vomiting
In case of fire: Use CO2, dry chemical, or foam for extinction

Precautionary Statements – Storage
Store locked up
Store in well-ventilated place. Keep cool

Precautionary Statements – Disposal
Dispose of contents/container to an approved disposal plant

3. COMPOSITION/INFORMATION ON INGREDIENTS

Product Description:
Essential Oil; UVCB; Substance of biological origin with variable and partially unknown composition.

Hazard Impurities: Not Applicable

Content of R65 classified products: No

Dangerous components:
ALPHA-PINENE (CAS No 80-56-8)Xn Xi N, R10-43-50/53-65; Amount-4.5 15%
BETA-PINENE (CAS No 127-91-3)Xn Xi N, R10 - 43- 50/53- 65; Amount- 9.5-36%
LIMONENE (CAS No 5989 – 27 -5)Xi N, R10 – 38 – 43 - 50/53; Amount:10 - 40%
CARYOPHYLLENE (CAS No 87 – 44 - 5)Xn,R65;Amount:10 - 34%

4. FIRST AID MEASURES

First aid measures for different exposure routes

**General Advice**
If symptoms persist, call a physician. Do not breathe dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or clothing.

**Eye contact**
Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. If symptoms persist, call a physician.

**Skin contact**
Consult a physician if necessary. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Remove and wash contaminated clothing before re-use. Wash off immediately with plenty of water. If skin irritation persists, call a physician. Wash off immediately with soap and plenty of water. Immediate medical attention is not required.

**Inhalation**
Move to fresh air. If breathing is irregular or stopped, administer artificial respiration. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Consult a physician. Immediate medical attention is not required. Move to fresh air in case of accidental inhalation of vapors or decomposition products.

**Ingestion**
Do not induce vomiting. Drink plenty of water. If symptoms persist, call a physician. Rinse mouth. Clean mouth with water and afterwards drink plenty of water. Never give anything by mouth to an unconscious person. Consult a physician.

**Protection of first-aiders**
Use personal protective equipment.
**Indication of immediate medical attention and special treatment needed, if necessary**

**Notes to physician**
May cause sensitization of susceptible persons. Treat symptomatically.

Symptoms of poisoning may even occur after several hours: therefore medical observation for at least 48 hours after accident

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### 5. FIRE-FIGHTING MEASURES

**Suitable extinguishing media**
Use: Dry chemical. Carbon dioxide (CO₂). Water spray. Alcohol-resistant foam.

**Unsuitable Extinguishing Media**
Do not use a solid water stream as it may scatter and spread fire.

**Specific hazards arising from chemical**
Thermal decomposition can lead to release of irritating gases and vapors. In the event of fire and/or explosion do not breathe fumes. May cause sensitization by inhalation and skin contact. Keep product and empty container away from heat and sources of ignition. Risk of ignition.

**Explosion Data**

<table>
<thead>
<tr>
<th>Sensitivity of Mechanical Impact</th>
<th>None</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sensitivity to Static Discharge</td>
<td>Yes</td>
</tr>
</tbody>
</table>

**Protective equipment and precautions for firefighters**
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

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### 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures**

**Personal precautions**
Avoid contact with skin, eyes and clothing. Use personal protective equipment. Remove all sources of ignition. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Pay
attention to flashback. Take precautionary measures against static discharge.

Environmental precautions

Environmental precautions
Prevent entry into waterways, sewers, basements or confined areas. Do not flush into surface water or sanitary sewer system. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

Methods and materials for containment and cleaning up

Methods for containment
Prevent further leakage or spillage if safe to do so.

Methods for cleaning up
Cover liquid spill with sand, earth or other noncombustible absorbent material. Cover powder spill with plastic sheet or tarp to minimize spreading. Pick up and transfer to properly labeled containers. Soak up with inert absorbent material. Dam up. Take precautionary measures against static discharges.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling
Avoid contact with skin, eyes and clothing. Remove and wash contaminated clothing before re-use. Do not eat, drink or smoke when using this product. Wear personal protective equipment. Do not breathe vapors or spray mist. Use only in area provided with appropriate exhaust ventilation. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded. Keep away from heat, sparks and open flame. No smoking. Take necessary action to avoid static discharge (which might cause ignition of organic vapors).

Conditions for safe handling

Technical measures/Storage
Conditions

Incompatible products
None known based on information supplied.

8. EXPOSURE CONTROL/PERSOAL PROTECTION

Control parameters

Exposure guidelines
This product does not contain hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Exposure controls

Engineering measures
Showers
Eye wash stations
Ventilation systems

Individual protection measures, such as personal protective equipment

Eye/Face Protection
Tightly fitting goggles. Face-shield

Skin and body protection
Chemical resistant apron

Respiratory protection
If exposure limits are exceeded for irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

Hygiene measures
When using, do not eat, drink or smoke. Provide regular cleaning of equipment, work are and clothing. Remove and wash contaminated clothing before re-use.

Skin Protection
Eye Protection
Body Protection
Environmental exposure controls
Prevent entry into drains, ground/surface water or sewerage system

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information On Basic Physical And Chemical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical State @20°C</td>
<td>Liquid</td>
</tr>
<tr>
<td>Appearance</td>
<td>Colorless to green</td>
</tr>
<tr>
<td>Odor</td>
<td>Strong husky dry sharp peppery</td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>No information available</td>
</tr>
<tr>
<td>pH</td>
<td>No information available</td>
</tr>
<tr>
<td>Optical Rotation</td>
<td>-12.8 to -13.2</td>
</tr>
<tr>
<td>Melting point/range</td>
<td>No information available</td>
</tr>
<tr>
<td>Freezing Point</td>
<td>No information available</td>
</tr>
<tr>
<td>Initial boiling point</td>
<td>No information available</td>
</tr>
<tr>
<td>Boiling point/boiling range</td>
<td>No information available</td>
</tr>
<tr>
<td>Flashpoint</td>
<td>50°C</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>0.8600 – 0.9160 @20°C</td>
</tr>
</tbody>
</table>
Refractive Index 1.4780 – 1.4990 @20°C
Evaporation Rate VALUE No information available
Flammable Properties No information available
Flammability limits in Air No information available
Explosive Properties No information available
Oxidizing Properties No information available
Vapor Pressure @20ºC No information available
Vapor Density No information available
Water Solubility Insoluble in water
Solubility Alcohol - 1:1(v/v)
Partition coefficient: No information available
Autoignition temperature No information available
Decomposition Temperature ºC No information available
Viscosity, dynamic No information available
Molecular Weight No information available
VOC Content No information available

10. STABILITY AND REACTIVITY

Reactivity
Not reactive, stable at room temperature

Chemical stability
Stable under recommended storage conditions

Possibility of hazardous reactions
Reactions with strong oxidizers

Conditions to avoid
Heat, flames and sparks

Incompatible materials
Avoid strong acids strong bases and all oxidizing agents

**Hazardous decomposition products**

No dangerous decomposition products expected by intended use

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**11. TOXICOLOGICAL INFORMATION**

**Information on likely routes of exposure**

**Product information**

Product does not present an acute toxicity hazard based on known information

**Inhalation**

There is no data available for this product

**Eye contact**

There is no data available for this product

**Skin contact**

There is no data available for this product

**Ingestion**

There is no data available for this product

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<table>
<thead>
<tr>
<th>Chemical name</th>
<th>LD50 Oral</th>
<th>LD50 Dermal</th>
<th>LG50 inhalation</th>
</tr>
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<tbody>
<tr>
<td>Black Pepper Oil</td>
<td>&gt;5 g/kw bw (rat)</td>
<td>&gt;5 g/kg bw (rabbit)</td>
<td>No Data available</td>
</tr>
</tbody>
</table>

**Information on toxicological effects**

**Symptoms**

No information available

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Sensitization**

No information available

**Mutagenic effects**

No information available

**Carcinogenicity**

No information available

**Reproductive Toxicity**

No information available

**Specific target organ systemic toxicity (single exposure)**

No information available
Specific target organ systemic toxicity (repeated exposure)

No information available

Chronic toxicity

Repeated exposure may cause allergic reactions in very susceptible persons. Avoid repeated exposure

Aspiration hazard

No information available

CMR Effects

Carcinogen

No information available

Mutagen

No information available

Reprotoxic

No information available

Exposure Limits

Note: There is a blanket recommendation of 10 mg/m³ for inspirable dusts or mists when limits have not otherwise been established

12. ECOLOGICAL INFORMATION

This product contains a chemical which is listed as a marine pollutant according to DOT

Ecotoxicity

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Toxicity to algae</th>
<th>Toxicity to fish</th>
<th>Toxicity to daphnia and other aquatic invertebrates</th>
</tr>
</thead>
<tbody>
<tr>
<td>Black Pepper Oil</td>
<td>No data available</td>
<td>No data available</td>
<td>No data available</td>
</tr>
</tbody>
</table>

Persistence and degradability

No information available

Bioaccumulation
No information available

Other adverse effects
No information available

13. DISPOSAL CONSIDERATIONS

Waste treatment

Waste disposal methods
Dispose of in accordance with local regulations

Contaminated packaging
Do not re-use empty containers

Recommendations:
Empty contaminated packing thoroughly as they may be recycled.
Moistened solids to be disposed of adhering to necessary technical regulations after consulting concerned authorities

14. TRANSPORTATION INFORMATION

DOT

BULK PACKAGING
Marine Pollutant not regulated

DOT

NON BULK PACKAGING
Marine Pollutant not regulated

IMDG/IMO

UN Number 2319
Proper shipping name Terpene Hydrocarbons (N.O.S)
Hazard Classification 3
<table>
<thead>
<tr>
<th><strong>Packaging Group</strong></th>
<th>III</th>
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<tbody>
<tr>
<td><strong>Marine Pollutant</strong></td>
<td>Yes</td>
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<tr>
<td><strong>MEX</strong></td>
<td></td>
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<tr>
<td><strong>UN Number</strong></td>
<td>2319</td>
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<tr>
<td><strong>Proper shipping name</strong></td>
<td>Terpene Hydrocarbons (N.O.S)</td>
</tr>
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<tr>
<td><strong>Packaging Group</strong></td>
<td>III</td>
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<tr>
<td><strong>ICAO</strong></td>
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<td>3</td>
</tr>
<tr>
<td><strong>Packaging Group</strong></td>
<td>III</td>
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<tr>
<td><strong>RID</strong></td>
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</tr>
<tr>
<td><strong>UN Number</strong></td>
<td>2319</td>
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</tbody>
</table>
Proper shipping name  Terpene Hydrocarbons (N.O.S)
Hazard Classification  3
Packaging Group  III

ADR/RID

UN Number  2319
Proper shipping name  Terpene Hydrocarbons (N.O.S)
Hazard Classification  3
Packaging Group  III

AND

UN Number  2319
Proper shipping name  Terpene Hydrocarbons (N.O.S)
Hazard Classification  3
Packaging Group  III

ADR/IMDG/IATA Labels:

Special precautions for users:
Wear protective gloves/protective clothing/eye protection/face protection. Take off contaminated clothing and wash before re-use. Prevent entry into drains, ground/surface water or sewerage system.

15. REGULATORY INFORMATION

EU regulations
This product has been classified and marked in accordance with the EU Directives/Ordinance on Hazardous Materials.
**Internal Inventories**

<table>
<thead>
<tr>
<th>Regulation</th>
<th>Complies</th>
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</thead>
<tbody>
<tr>
<td>TSCA</td>
<td>Complies</td>
</tr>
<tr>
<td>DSL/NDSL</td>
<td>Complies</td>
</tr>
<tr>
<td>EINECS/ELINCS</td>
<td>Complies</td>
</tr>
<tr>
<td>ENCS</td>
<td>Complies</td>
</tr>
<tr>
<td>IECSC</td>
<td>Complies</td>
</tr>
<tr>
<td>KECL</td>
<td>Complies</td>
</tr>
<tr>
<td>PICCS</td>
<td>Complies</td>
</tr>
<tr>
<td>AICS</td>
<td>Complies</td>
</tr>
</tbody>
</table>

**Legend:**

- **TSCA** – United States Toxic Substances Control Act Section 8(b) Inventory
- **DSL/NDSL** – Canadian Domestic Substances List/Non-Domestic Substances List
- **EINECS/ELINCS** – European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances
- **ENCS** – Japan Existing and New Chemical Substances
- **IECSC** – China Inventory of Existing Chemical Substances
- **KECL** – Korean Existing and Evaluated Chemical Substances
- **PICCS** – Philippines Inventory of Chemicals and Chemical Substances
- **AICS** – Australian Inventory of Chemical Substances

**Sudden Release of Pressure Hazard**  
No

**Reactive Hazard**  
No

**Clean Water ACT**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

**CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under Comprehensive Environmental Response Compensation and
Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization ACT (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional or state level pertaining to releases of this material.

**California Proposition 65**

This product does not contain any Proposition 65 Chemicals

## 16. OTHER INFORMATION

### Relevant R – and S phrases

R10 FLAMMABLE.

R38 IRRITATING TO SKIN.

R43 MAY CAUSE SENSITIZATION BY SKIN CONTACT.

R65 HARMFUL: MAY CAUSE LUNG DAMAGE IF SWALLOWED.

R50/53 VERY TOXIC TO AQUATIC ORGANISMS, MAY CAUSE LONG-TERM ADVERSE EFFECTS IN THE AQUATIC ENVIRONMENT.

S24 AVOID CONTACT WITH SKIN.

S61 AVOID RELEASE TO THE ENVIRONMENT. REFER TO SPECIAL INSTRUCTIONS/SAFETY DATA SHEET.

S62 IF SWALLOWED, DO NOT INDUCE VOMITTING: SEEK MEDICAL ADVICE IMMEDIATELY AND SHOW THIS CONTAINER OR LABEL.

### Relevant H-, P – Statements and Hazard Codes

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
P301+310 IF SWALLOWED: IMMEDIATELY CALL A POISON CENTER OR DOCTOR/PHYSICIAN

P303+361+353 IF ON SKIN (OR HAIR): REMOVE/TAKE OFF IMMEDIATELY ALL CONTAMINATED CLOTHING. RINSE SKIN WITH WATER/SHOWER

P370+378 IN CASE OF FIRE: USE ... FOR EXTINCTION

P403+235 STORE IN A WELL VENTILATED PLACE. KEEP COOL

P501 DISPOSE OF CONTENTS/CONTAINER TO ... (IN ACCORDANCE WITH LOCAL/REGIONAL/NATIONAL/INTERNATIONAL REGULATION)

FL 3 FLAMMABLE LIQUID 3

SCI 2 SKIN IRRITANT 2

SS 1 SKIN SENSITISATION 1

AH 1 ASPIRATION HAZARD CATEGORY 1

EH A1 ACUTE AQUATIC TOXICITY 1

EH C1 CHRONIC AQUATIC TOXICITY 1

Revision Date 7/25/15

Revision Note No information available

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of this publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The 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, unless specified in the text.

End of Safety Data Sheet