



SAFETY DATA SHEET (SDS)

Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Regulation (EU) 2020/878 and GHS.

Black Pepper Essential Oil

SECTION 1: IDENTIFICATION

Product Name: Black Pepper Essential Oil

Botanical Name: *Piper nigrum*

INCI Name: Piper Nigrum Fruit Oil

CAS Number: 8006-82-4

EINECS CAS Number: 84929-41-9

EINECS Number: 284-524-7

UN Number: UN 1197

Product Type: Organic Essential Oil

Recommended Use: Aromatherapy and natural perfumery

Restriction: Do not ingest

The supplied SDS identifies the product as Pepper, Black – Organic, with *Piper nigrum* as the botanical source and Piper Nigrum Fruit Oil as the INCI name.

Supplier

AROMOLOGY

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SECTION 2: HAZARD IDENTIFICATION

GHS Classification

Flammable Liquids – Category 3

Aspiration Hazard – Category 1

Skin Corrosion/Irritation – Category 2

Skin Sensitisation – Category 1

Serious Eye Damage/Eye Irritation – Category 2

Hazardous to the Aquatic Environment, Chronic – Category 2



Signal Word

DANGER

Hazard Statements

- 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.
- H319** – Causes serious eye irritation.
- H411** – Toxic to aquatic life with long lasting effects.

Precautionary Statements

- P102** – Keep out of reach of children.
- P210** – Keep away from flames and hot surfaces. No smoking.
- P233** – Keep container tightly closed.
- P240** – Ground/bond container and receiving equipment.
- P241** – Use explosion-proof electrical/ventilating/lighting equipment.
- P242** – Use only non-sparking tools.
- P243** – Take precautionary measures against static discharge.
- P261** – Avoid breathing dust/fume/gas/mist/vapours/spray.
- P264** – Wash hands thoroughly after handling.
- P272** – Contaminated work clothing should not be allowed out of the workplace.
- P273** – Avoid release to the environment.
- P280** – Wear protective gloves/protective clothing/eye protection/face protection.
- P301 + P310** – IF SWALLOWED: Immediately call a POISON CENTER/doctor/physician.
- P331** – Do NOT induce vomiting.
- P302 + P352** – IF ON SKIN: Wash with plenty of water/soap.
- P303 + P361 + P353** – IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
- P305 + P351 + P338** – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
- P333 + P313** – If skin irritation or rash occurs: Get medical advice/attention.
- P337 + P313** – If eye irritation persists: Get medical advice/attention.
- P362 + P364** – Take off contaminated clothing and wash before reuse.
- P370 + P378** – In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.
- P391** – Collect spillage.
- P403 + P235** – Store in a well-ventilated place. Keep cool.
- P405** – Store locked up.
- P501** – Dispose of contents/container to an approved waste disposal facility.

Other Hazards

May cause skin irritation/allergy. Patch testing is recommended in the source SDS.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS



Main Substance

Component	CAS No.	EINECS CAS No.	EINECS No.	Concentration
Piper Nigrum Oil (Black Pepper)	8006-82-4	84929-41-9	284-524-7	100%

Naturally Occurring Constituents / EU Allergens

Constituent	CAS No.	Concentration
Beta-Caryophyllene	87-44-5	10.00–25.00%
Camphor	76-22-2 / 21368-68-3 / 464-49-3 / 464-48-2	0.03%
Eugenol	97-53-0	0.01%
Limonene	5989-27-5 / 5989-54-8 / 138-86-3 / 7705-14-8	10.00–25.00%
Linalool	78-70-6	0.26%
Pinenes	80-56-8 / 7785-70-8 / 127-91-3 / 18172-67-3	7.00–41.00%
Terpineol	8000-41-7 / 98-55-5 / 138-87-4 / 586-81-2	0.20%
Terpinolene	586-62-9	0.58%

Myrcene – CAS 123-35-3: 1.5–4%

The composition and constituent ranges above are taken directly from the source SDS.

SECTION 4: FIRST AID MEASURES

Eye Contact

Check for and remove contact lenses. Flush eyes with water for at least 15 minutes. If symptoms persist, obtain medical attention.

Skin Contact

No harmful effect is expected with normal skin according to the source SDS. If irritation occurs, wash thoroughly with soap and water. If irritation continues, consult a doctor.

Inhalation

Not likely to occur under normal conditions of use. If symptoms occur, move the affected person to fresh air and obtain medical advice.

Ingestion

Not an expected route of exposure. If swallowed in a small quantity, rinse the mouth with milk or water and consult a doctor.

Keep the affected person at rest. Do not induce vomiting unless directed by medical personnel. Seek immediate medical attention and show the product label to medical personnel.



Most Important Symptoms

Eyes: May cause irritation and corneal damage if not immediately rinsed out.

Skin: Repeated contact may cause allergic dermatitis.

Inhalation: High concentrations of vapour may cause anaesthetic effects.

Ingestion: Not an expected route of exposure.

Special Treatment: None known.

SECTION 5: FIRE-FIGHTING MEASURES

Flash Point: 45 °C

Suitable Extinguishing Media

- Sprayed water or water mist
- Alcohol-resistant foam
- Multipurpose ABC powder
- BC powder
- Carbon dioxide (CO₂)

Unsuitable Extinguishing Media

Water jet / straight stream

Specific Hazards

None known.

Protective Equipment for Firefighters

Use self-contained breathing apparatus and suitable protective clothing.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Stop leakage if this can be done without risk.

Use appropriate personal protective equipment.

Avoid breathing emitted vapours.

Contain spills with non-combustible absorbent material such as:

- Sand
- Earth



- Vermiculite
- Diatomaceous earth

Prevent the product from entering sewage systems or waterways.

Notify the appropriate authorities if the product enters drains or waterways.

Absorb the spill with suitable non-combustible material and transfer to appropriate waste containers. Do not use solvents for clean-up.

SECTION 7: HANDLING AND STORAGE

Handling

Handle according to good industrial hygiene and safety practices.

Avoid unintentional skin contact.

Avoid inhalation.

Avoid contact with eyes.

Ensure adequate workplace ventilation or exhaust.

Wear suitable protective clothing.

Wash hands after handling.

Remove and wash contaminated clothing before reuse.

Storage

Store in closed glass containers.

Keep away from:

- Heat
- Light
- Sources of ignition

Store in a cool area.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Limits



OSHA TWA: None established
OSHA STEL: None established
ACGIH TWA: None established
ACGIH STEL: None established
NOHSC TWA: None established
NOHSC STEL: None established

Engineering Controls

General room or local exhaust ventilation is normally required.

Electrical equipment should be grounded and conform to applicable electrical codes.

Eye/Face Protection

Use suitable safety goggles meeting EN166 or equivalent requirements for protection against liquid splashes.

Hand Protection

Wear chemical-resistant protective gloves for prolonged or repeated contact.

Recommended Glove Materials:

- Nitrile rubber (NBR)
- Polyvinyl alcohol (PVA)

Body Protection

Wear suitable work clothing. Wash contaminated areas of the body after contact.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Property	Specification
Physical State	Transparent liquid
Colour	Colourless to pale yellow/green
Odour	Sharp, stimulating and spicy; aroma of freshly ground pepper
Water Miscibility	Insoluble
Alcohol Miscibility	Soluble
Essential Oil Miscibility	Soluble
Liposolubility	Soluble
pH	Not applicable
Boiling Point	Not specified



Property	Specification
Flash Point	45 °C
Vapour Pressure	Not specified
Evaporation Rate	Not specified
Density at 20 °C	Not specified
Water Solubility	Insoluble
Self-Ignition Temperature	Not specified
Decomposition Point	Not specified
Refractive Index at 20 °C	1.475–1.490
Partition Coefficient	Not specified
Specific Gravity at 20 °C	0.864–0.884

SECTION 10: STABILITY AND REACTIVITY

Reactivity: Not reactive.

Chemical Stability: Stable under recommended handling and storage conditions.

Hazardous Reactions

Exposure to high temperatures may release hazardous decomposition products including:

- Carbon monoxide
- Carbon dioxide
- Fumes
- Nitrogen oxide

Conditions to Avoid

None known.

Incompatible Materials

- Alkali metals
- Ammonia
- Oxidising agents
- Peroxides
- Strong inorganic acids

Hazardous Decomposition Products

Thermal decomposition may produce carbon monoxide (CO) and carbon dioxide (CO₂).



SECTION 11: TOXICOLOGICAL INFORMATION

Acute Toxicity: No data available.

Skin Corrosion/Irritation: May be irritating to skin.

Serious Eye Damage/Irritation: May be irritating to eyes. Prompt rinsing and removal of the substance may avoid damage.

Respiratory Effects: Breathing high concentrations of vapour may cause anaesthetic effects.

Germ Cell Mutagenicity: Not specified.

Reproductive Toxicity: Not specified.

STOT – Single Exposure: Not specified.

STOT – Repeated Exposure: Not specified.

Likely Route of Exposure

Skin/scalp contact.

Potential Chronic Effects

Exposure to high vapour concentrations may cause mucous membrane and respiratory irritation and may adversely affect the kidneys, liver and central nervous system.

Repeated or prolonged skin contact may remove natural oils from the skin, resulting in non-allergic contact dermatitis and possible absorption through the skin.

Eye splashes may cause irritation and reversible damage.

SECTION 12: ECOLOGICAL INFORMATION

Aquatic Classification: Toxic to aquatic life with long lasting effects.

Acute Fish Toxicity: No data available.

Aquatic Plant Toxicity: No data available.

Microorganism Toxicity: No data available.

Persistence and Degradability: Biodegradation is expected.

Bioaccumulative Potential: Bioaccumulation is unlikely.



Mobility in Soil: Unknown.

Other Adverse Effects: Avoid exposure to marine environments and waterways.

SECTION 13: DISPOSAL CONSIDERATIONS

Do not pour into drains or waterways.

Waste and contaminated containers must be handled in accordance with applicable environmental and waste regulations.

Waste minimisation should be practised where possible.

Recycle or dispose of waste through an appropriately authorised or certified waste contractor.

Empty containers completely and retain the product labels before transferring them to an authorised disposal contractor.

SECTION 14: TRANSPORT INFORMATION

UN Number: UN 1197

UN Proper Shipping Name: Extracts, Liquid

Transport Hazard Class: 3

Packing Group: III

Environmental Hazard: Toxic to aquatic life with long lasting effects.

Special Precautions

Store in closed containers away from heat sources, air and light and protect from extremes of temperature.

SECTION 15: REGULATORY INFORMATION

Jurisdiction	Status
Canada	Not regulated
European Union	Refer to EU allergens in Section 3
Hong Kong	Not regulated
Singapore	Not regulated
USA	California Proposition 65 components present

The source SDS states that the product contains chemicals identified under California Proposition 65 and directs users to Section 3 for the relevant constituent information.



SECTION 16: OTHER INFORMATION

This Safety Data Sheet has been converted into AROMOLOGY format using the supplied Black Pepper Organic Essential Oil SDS.

Original SDS Created: 06 May 2021
Latest Source Revision: 10 April 2025
Source Revision: R.4

Technical values, classifications and constituent concentrations have been retained from the supplied documentation and have not been independently tested by Aromology.

Authorised by:

Fozia Khot
Director