



SAFETY DATA SHEET (SDS)

Prepared in accordance with the Globally Harmonized System (GHS) and Regulation (EC) No. 1907/2006 (REACH, as amended)

SECTION 1 – IDENTIFICATION

Product Name: Black Pepper Essential CO₂

Alternative Names: Black Pepper CO₂ Extract, Black Pepper Supercritical CO₂ Extract

Botanical Name: *Piper nigrum* L.

INCI Name: Piper Nigrum Fruit Extract

CAS Number: 8006-82-4

EC Number: 284-524-7

Product Type: Natural CO₂ Extract

Plant Part: Dried Fruits (Peppercorns)

Extraction Method: Supercritical Carbon Dioxide (SFE CO₂)

Origin: India

Grade: Premium Perfumery Grade

Recommended Use: Professional Perfumery Raw Material

Supplier

Aromology Trading LLC
G05 Al Ghazal Building
Nadd Al Hamar
Dubai, United Arab Emirates

Website: www.aromology.com
Email: info@aromology.com
Telephone: +971 505197601



SECTION 2 – HAZARD IDENTIFICATION

GHS Classification

- Skin Irritation – Category 2
- Skin Sensitisation – Category 1
- Eye Irritation – Category 2A
- Aspiration Hazard – Category 1
- Hazardous to the Aquatic Environment (Chronic) – Category 3

Signal Word

Danger

Hazard Statements

- 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.
- H412 Harmful to aquatic life with long lasting effects.

Precautionary Statements

- P261 Avoid breathing vapours.
- P273 Avoid release to the environment.
- P280 Wear protective gloves, protective clothing and eye protection.
- P301+P310 IF SWALLOWED: Immediately call a POISON CENTRE or physician.
- P331 Do NOT induce vomiting.
- P302+P352 IF ON SKIN: Wash thoroughly with soap and water.
- P333+P313 If skin irritation or rash occurs: Get medical advice.
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes.
- P501 Dispose of contents/container according to local regulations.

SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS

Component	Information
Product	Black Pepper Essential CO ₂
Botanical Name	<i>Piper nigrum</i> L.
INCI Name	Piper Nigrum Fruit Extract
CAS Number	8006-82-4
EC Number	284-524-7



Purity 100% Natural CO₂ Extract

Typical Naturally Occurring Constituents

- β -Caryophyllene
- Limonene
- Sabinene
- β -Pinene
- α -Pinene
- δ -3-Carene
- Linalool
- Myrcene
- Germacrene D
- Piperine (trace)
- Oleoresin components

SECTION 4 – FIRST AID MEASURES

Inhalation: Move exposed person to fresh air. Seek medical advice if symptoms persist.

Skin Contact: Remove contaminated clothing and wash thoroughly with soap and water.

Eye Contact: Flush cautiously with water for at least 15 minutes. Obtain medical attention if irritation persists.

Ingestion: Do NOT induce vomiting. Immediately seek medical attention due to aspiration hazard.

SECTION 5 – FIRE FIGHTING MEASURES

Suitable Extinguishing Media

- Carbon dioxide
- Dry chemical powder
- Alcohol-resistant foam
- Water mist

Hazardous Combustion Products

Carbon monoxide, carbon dioxide and irritating organic vapours.



SECTION 6 – ACCIDENTAL RELEASE MEASURES

Wear appropriate personal protective equipment.

Prevent entry into drains and waterways.

Absorb using inert absorbent material.

Collect in approved waste containers.

SECTION 7 – HANDLING AND STORAGE

Use only in well-ventilated areas.

Avoid contact with skin and eyes.

Store tightly sealed away from direct sunlight, heat and oxidising agents.

Recommended Storage Temperature: 5–20 °C

SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

- Chemical safety goggles
 - Nitrile gloves
 - Protective laboratory clothing
 - Local exhaust ventilation
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SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Property	Specification
Appearance	Clear to slightly viscous liquid
Colour	Pale Yellow to Amber
Odour	Fresh, spicy, peppery, woody, warm, dry
Relative Density (20 °C)	0.900–0.960
Refractive Index (20 °C)	1.485–1.505



Flash Point	>75 °C
Solubility	Insoluble in water
Solubility	Soluble in ethanol and perfumery solvents

SECTION 10 – STABILITY AND REACTIVITY

Stable under recommended storage conditions.

Avoid:

- Strong oxidising agents
- Excessive heat
- Open flames
- Prolonged exposure to air

Hazardous decomposition products include carbon monoxide and carbon dioxide.

SECTION 11 – TOXICOLOGICAL INFORMATION

May cause skin irritation and allergic skin reactions.

Aspiration hazard if swallowed.

Contains naturally occurring terpene hydrocarbons capable of oxidising during storage.

SECTION 12 – ECOLOGICAL INFORMATION

Harmful to aquatic organisms with long-lasting effects.

Avoid uncontrolled release into the environment.

SECTION 13 – DISPOSAL CONSIDERATIONS

Dispose of contents and containers through an authorised waste contractor in accordance with local regulations.



SECTION 14 – TRANSPORT INFORMATION

Regulation	Status
UN Number	UN3082
Proper Shipping Name	Environmentally Hazardous Substance, Liquid, N.O.S. (Black Pepper CO ₂ Extract)
ADR/RID	Class 9
IMDG	Class 9
IATA	Class 9
Packing Group	III

SECTION 15 – REGULATORY INFORMATION

Prepared in accordance with:

- GHS Revision 9
 - OSHA Hazard Communication Standard (29 CFR 1910.1200)
 - Regulation (EC) No. 1907/2006 (REACH)
 - Regulation (EU) 2020/878
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SECTION 16 – OTHER INFORMATION

Black Pepper Essential CO₂ is produced by supercritical carbon dioxide extraction of the dried fruits of *Piper nigrum*. Compared with steam-distilled Black Pepper Essential Oil, the CO₂ extract retains a broader spectrum of aromatic constituents, resulting in a richer, warmer and more authentic pepper profile with enhanced spicy, woody and slightly balsamic nuances. It is widely used in premium masculine fragrances, oriental, woody, leather, amber and spice accords, where it contributes exceptional naturalness, diffusion and longevity.

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