



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: Cardamom Essential Oil CO₂
Botanical Name: *Elettaria cardamomum* (L.) Maton
INCI Name: Elettaria Cardamomum Seed Extract
CAS Number: 85940-32-5
EC Number: 288-922-1
Product Type: Natural CO₂ Extract
Plant Part: Seeds
Extraction Method: Supercritical Carbon Dioxide (CO₂) Extraction
Origin: India
Grade: Premium Perfumery Grade
Recommended Use: Professional perfumery, cosmetic and fragrance 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

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

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.
- H411 Toxic to aquatic life with long lasting effects.

Precautionary Statements

- P261 Avoid breathing vapours.
- P273 Avoid release to the environment.
- P280 Wear protective gloves 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.
- P391 Collect spillage.
- P501 Dispose of contents/container according to local regulations.

SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS

Component	Information
Product	Cardamom Essential Oil CO ₂
Botanical Name	<i>Elettaria cardamomum</i> (L.) Maton
INCI Name	Elettaria Cardamomum Seed Extract
CAS Number	85940-32-5
EC Number	288-922-1
Purity	100% Natural CO ₂ Extract

Typical Naturally Occurring Constituents

- α -Terpinyl Acetate
- 1,8-Cineole
- Linalool
- Linalyl Acetate
- Sabinene
- Limonene
- α -Pinene
- β -Pinene



- Myrcene
- α -Terpineol

SECTION 4 – FIRST AID MEASURES

Inhalation: Move exposed person to fresh air. Seek medical attention 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. Seek medical attention if irritation persists.

Ingestion: Rinse mouth. Do not induce vomiting. Obtain immediate medical attention.

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 suitable personal protective equipment.

Prevent release into drains and waterways.

Absorb using inert absorbent material and place into approved disposal containers.

SECTION 7 – HANDLING AND STORAGE



Use only in well-ventilated areas.

Avoid contact with skin and eyes.

Store tightly closed away from heat, sunlight and oxidising agents.

Recommended Storage Temperature: 5–20 °C

SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

- Chemical safety goggles
- Nitrile gloves
- Protective clothing
- Local exhaust ventilation

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Property	Specification
Appearance	Mobile to slightly viscous liquid
Colour	Pale Yellow to Yellow
Odour	Fresh, sweet, spicy, aromatic, warm, camphoraceous
Relative Density (20 °C)	0.930–0.980
Refractive Index (20 °C)	1.455–1.475
Flash Point	>70 °C
Solubility in Water	Insoluble
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
- Direct sunlight
- Prolonged exposure to air



Hazardous decomposition products include carbon monoxide and carbon dioxide.

SECTION 11 – TOXICOLOGICAL INFORMATION

May be fatal if swallowed and enters airways.

May cause skin irritation and allergic skin reactions.

Contains naturally occurring terpenes that may oxidise during storage and increase sensitisation potential.

SECTION 12 – ECOLOGICAL INFORMATION

Toxic 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. (Cardamom 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

Cardamom Essential Oil CO₂ is produced by supercritical carbon dioxide extraction of the seeds of *Elettaria cardamomum*. Compared with steam-distilled cardamom oil, the CO₂ extract provides a fuller, richer aromatic profile with enhanced spicy, green and balsamic nuances while preserving delicate naturally occurring constituents. It is widely used in fine fragrance, oriental, gourmand, woody and spice accords, where it imparts exceptional natural depth and authenticity.

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