



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 Identifier

Product Name: Sichuan Pepper Absolute CO₂

Common Name: Sichuan Pepper CO₂ Extract

Botanical Name: *Zanthoxylum bungeanum* Maxim.

INCI Name: *Zanthoxylum Bungeanum* Fruit Extract

CAS Number: 102242-62-6

EC Number: 289-757-7

Product Type: Supercritical CO₂ Extract

Extraction Method: Supercritical Carbon Dioxide (SFE/CO₂)

Recommended Use

Perfumery raw material intended for fragrance creation and cosmetic manufacturing.

Professional use only.

Supplier

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

Email: info@aromology.com
Website: www.aromology.com



SECTION 2: Hazard Identification

Classification (GHS)

Based on available information for concentrated spice CO₂ extracts, this material is classified as:

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

Signal Word

Warning

Hazard Pictograms

- GHS07 – Exclamation Mark

Hazard Statements

- 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 or mist.
- P264 Wash thoroughly after handling.
- P273 Avoid release into the environment.
- P280 Wear protective gloves, protective clothing and eye protection.
- P302+P352 IF ON SKIN: Wash with plenty of soap and water.
- P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes.
- P501 Dispose of contents/container in accordance with local regulations.



SECTION 3: Composition / Information on Ingredients

Component	CAS No.	Concentration
Sichuan Pepper Absolute CO ₂ (<i>Zanthoxylum bungeanum</i>)	102242-62-6	100%

SECTION 4: First Aid Measures

Inhalation

Move the affected person to fresh air.

Keep warm and at rest.

Seek medical advice if symptoms persist.

Skin Contact

Remove contaminated clothing.

Wash thoroughly with soap and water.

Seek medical advice if irritation or sensitisation develops.

Eye Contact

Immediately rinse cautiously with water for at least 15 minutes.

Remove contact lenses if present.

Seek medical attention if irritation persists.

Ingestion

Rinse mouth thoroughly.

Do not induce vomiting.

Seek immediate medical attention if symptoms occur.

SECTION 5: Fire Fighting Measures



Suitable Extinguishing Media

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

Unsuitable Extinguishing Media

Do not use a direct water jet.

Hazardous Combustion Products

- Carbon monoxide
- Carbon dioxide
- Irritating organic fumes

Protective Equipment

Wear self-contained breathing apparatus and full protective clothing.

SECTION 6: Accidental Release Measures

Wear suitable PPE.

Avoid breathing vapours.

Prevent entry into drains and waterways.

Absorb using inert absorbent material such as sand or vermiculite.

Transfer to suitable labelled containers for disposal.

Clean contaminated area thoroughly.

SECTION 7: Handling and Storage

Handling

- Avoid contact with skin and eyes.
- Avoid inhalation of vapours.



- Use only in well-ventilated areas.
- Observe good industrial hygiene practices.

Storage

- Store in tightly closed original containers.
- Store in a cool, dry and well-ventilated area.
- Protect from direct sunlight.
- Keep away from heat and oxidising agents.

Recommended storage temperature: 15–25 °C

SECTION 8: Exposure Controls / Personal Protection

Engineering Controls

Provide adequate local exhaust ventilation.

Personal Protective Equipment

Eye Protection

Chemical safety goggles.

Hand Protection

Chemical-resistant nitrile gloves.

Respiratory Protection

Organic vapour respirator where ventilation is inadequate.

Skin Protection

Protective clothing recommended.

SECTION 9: Physical and Chemical Properties

Property	Specification
Appearance	Dark yellow to amber viscous liquid
Odour	Fresh spicy, peppery, citrus, woody, warm, tingling



Property	Specification
Physical State	Viscous liquid
Relative Density (20 °C)	0.930–1.020
Refractive Index (20 °C)	1.4700–1.5100
Flash Point	>100 °C
Solubility	Insoluble in water
Solubility in Ethanol	Soluble
Extraction Method	Supercritical CO ₂

SECTION 10: Stability and Reactivity

Reactivity

No hazardous reactions are expected under recommended conditions.

Chemical Stability

Stable under normal storage conditions.

Conditions to Avoid

- Heat
- Flames
- Direct sunlight
- Strong oxidising agents

Hazardous Decomposition Products

Carbon monoxide, carbon dioxide and irritating organic fumes.

SECTION 11: Toxicological Information

Based on available information:

- May cause skin irritation.
- May cause allergic skin reactions.
- May cause temporary eye irritation.
- No known carcinogenic, mutagenic or reproductive effects under intended conditions of use.



SECTION 12: Ecological Information

Avoid uncontrolled release into the environment.

Harmful to aquatic organisms with long-lasting effects.

Expected to be biodegradable under environmental conditions.

SECTION 13: Disposal Considerations

Dispose of contents and containers in accordance with local, regional and national regulations.

Do not discharge into drains or waterways.

SECTION 14: Transport Information

Item	Information
UN Number	Not Regulated
Proper Shipping Name	Not Regulated
Transport Hazard Class	Not Applicable
Packing Group	Not Applicable
Marine Pollutant	No

SECTION 15: Regulatory Information

Prepared in accordance with:

- Globally Harmonized System (GHS)
 - REACH Regulation (EC) No. 1907/2006
 - CLP Regulation (EC) No. 1272/2008
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SECTION 16: Other Information



Sichuan Pepper Absolute CO₂ is a premium supercritical carbon dioxide extract obtained from the fruits of *Zanthoxylum bungeanum*. It possesses a distinctive fresh, peppery, citrus, woody, and slightly tingling aroma, making it highly valued in fine perfumery for spicy, citrus, woody, aromatic, and oriental fragrance compositions. The supercritical CO₂ extraction process preserves the natural aromatic profile without the use of organic solvents.

The information contained in this Safety Data Sheet is believed to be accurate at the date of issue and is intended solely as guidance for the safe handling, storage, transport, and use of this material. It does not constitute a warranty regarding product properties or suitability for any particular application.

Prepared By:
Quality & Regulatory Affairs

Authorised By:
Fozia Khot
Director