



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: Clove Terpenes

Botanical Source: *Syzygium aromaticum* (L.) Merr. & L.M.Perry

INCI Name: Syzygium Aromaticum (Clove) Leaf Oil (Terpene Fraction)

CAS Number: 84961-50-2

EC Number: 284-638-7

Product Type: Natural Terpene Fraction

Plant Part: Leaves and/or Flower Buds

Manufacturing Process: Fractional Distillation of Clove Essential Oil

Origin: Indonesia

Grade: Premium Perfumery Grade

Recommended Use: Professional perfumery, fragrance and cosmetic raw material. The CAS 84961-50-2 / EC 284-638-7 combination is commonly used commercially for clove terpene fractions derived from clove oil.

Supplier

Aromology Trading LLC

G05 Al Ghazal Building

Nadd Al Hamar

Dubai, United Arab Emirates

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SECTION 2 – HAZARD IDENTIFICATION

GHS Classification

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

Signal Word



Danger

Hazard Statements

- H304 May be fatal if swallowed and enters airways.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H412 Harmful to aquatic life with long lasting effects.

These classifications are consistent with published SDSs for commercial clove terpene products.

Precautionary Statements

- P261 Avoid breathing vapours.
- P272 Contaminated work clothing should not be allowed out of the workplace.
- 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 with plenty of 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 in accordance with local regulations.

SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS

Component	Information
Product	Clove Terpenes
Botanical Source	<i>Syzygium aromaticum</i>
CAS Number	84961-50-2
EC Number	284-638-7
Purity	Natural Terpene Fraction

Typical Constituents

- β -Caryophyllene
- α -Humulene
- Caryophyllene Oxide
- α -Pinene
- β -Pinene
- Limonene



- Myrcene
- Terpinolene
- Trace Eugenol

Rectification removes most of the eugenol-rich fraction while enriching the terpene hydrocarbons.

SECTION 4 – FIRST AID MEASURES

Inhalation: Remove exposed person to fresh air. Obtain medical advice if symptoms persist.

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

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.

SECTION 5 – FIRE FIGHTING MEASURES

Suitable Extinguishing Media

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

Hazardous Combustion Products

Carbon monoxide, carbon dioxide and irritating organic vapours.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Wear appropriate PPE.

Prevent product entering drains or waterways.



Absorb using inert absorbent material and transfer to suitable waste containers.

SECTION 7 – HANDLING AND STORAGE

Handle in well-ventilated areas.

Avoid contact with skin and eyes.

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

Recommended Storage Temperature: 5–20 °C

SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

- Safety goggles
 - Nitrile gloves
 - Protective clothing
 - Local exhaust ventilation
 - Organic vapour respirator where ventilation is inadequate
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SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Property	Typical Specification
Appearance	Clear mobile liquid
Colour	Colourless to Pale Yellow
Odour	Fresh woody, peppery, spicy, terpene-like with light clove notes
Relative Density (20 °C)	0.890–0.930
Refractive Index (20 °C)	1.485–1.505
Flash Point	>65 °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
- Heat
- 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 allergic skin reactions.

Causes eye irritation.

Oxidised terpenes may exhibit increased sensitisation potential during prolonged storage.

SECTION 12 – ECOLOGICAL INFORMATION

Harmful to aquatic life with long lasting effects.

Avoid uncontrolled release into the environment.

SECTION 13 – DISPOSAL CONSIDERATIONS

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

SECTION 14 – TRANSPORT INFORMATION

Regulation	Status
UN Number	Not Regulated (typical commercial shipments)*
ADR/RID	Not Classified



IMDG Not Classified
IATA Not Classified

*Transport classification should always be confirmed against the supplier's current SDS and shipment specifications.

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

SECTION 16 – OTHER INFORMATION

Clove Terpenes are obtained by fractional distillation of natural clove essential oil, producing a terpene-rich fraction with substantially reduced eugenol content. The material exhibits a fresh woody, peppery and mildly spicy profile and is used extensively in fragrance creation to provide natural terpene freshness while reducing the heavy phenolic character of conventional clove oil. Commercial products identified under CAS 84961-50-2 are widely supplied for fragrance manufacture and professional perfumery applications.

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