SAFETY DATA SHEET (SDS)

According to Regulation (EC) No. 1907/2006 (REACH), as amended by Regulation (EU) 2020/878

SECTION 1: IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY

1.1 Product Identifier

Product Name: Betel Leaf Essential Oil

Botanical Name: *Piper betle* L.

Common Name: Betel Leaf Oil

INCI Name: *Piper Betle* Leaf Oil

CAS Number: 84775-81-5

EC (EINECS) Number: 283-910-2

Product Type: Natural Essential Oil

Extraction Method: Steam Distillation

Plant Part: Fresh Leaves

Country of Origin: India

1.2 Relevant Identified Uses

- Fragrance ingredient
- Perfumery raw material
- Cosmetic ingredient
- Aromatherapy ingredient
- For professional use only

1.3 Supplier

Aromology Trading LLC
G05 Al Ghazal Building
Nadd Al Hamar

Dubai
United Arab Emirates

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

1.4 Emergency Telephone

Refer to the local Poison Centre or emergency medical services.

SECTION 2: HAZARDS IDENTIFICATION

Classification according to Regulation (EC) No. 1272/2008 (CLP)

Based on available supplier Safety Data Sheets:

- **Skin Sensitisation** – Category 1 (H317)

The material is generally not classified as hazardous under CLP except for its skin sensitising potential, owing to naturally occurring phenolic constituents such as eugenol, chavicol and related compounds.

Signal Word

Warning

Hazard Statements

- H317 May cause an allergic skin reaction.

Precautionary Statements

P261 Avoid breathing vapours.

P272 Contaminated work clothing should not be allowed out of the workplace.

P280 Wear protective gloves 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.

P363 Wash contaminated clothing before reuse.

P501 Dispose of contents/container in accordance with local regulations.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Component	Information
Substance	Betel Leaf Essential Oil
Botanical Name	*Piper betle* L.
INCI Name	*Piper Betle* Leaf Oil
CAS Number	84775-81-5
EC Number	283-910-2
Concentration	100%

Typical naturally occurring constituents include:

- Chavicol
- Chavibetol
- Eugenol
- Hydroxychavicol
- Safrole*
- Estragole*
- β-Caryophyllene

*Composition varies significantly depending on chemotype and geographical origin.

SECTION 4: FIRST AID MEASURES

Inhalation

Move the affected person to fresh air.

Seek medical attention if symptoms persist.

Skin Contact

Remove contaminated clothing.

Wash thoroughly with soap and water.

Seek medical advice if irritation or sensitisation develops.

Eye Contact

Rinse immediately with plenty of water for at least 15 minutes.

Seek medical attention.

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 spray

Hazardous combustion products:

- Carbon monoxide
- Carbon dioxide

Firefighters should wear self-contained breathing apparatus.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Avoid contact with skin and eyes.

Provide adequate ventilation.

Prevent release into drains and waterways.

Absorb with inert material and dispose of according to local regulations.

SECTION 7: HANDLING AND STORAGE

Store in tightly closed original containers.

Protect from:

- Heat
- Direct sunlight
- Oxidising agents

Store in a cool, dry and well-ventilated area.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls

Provide adequate ventilation.

Eye Protection

Chemical safety goggles.

Hand Protection

Chemical-resistant gloves.

Respiratory Protection

Organic vapour respirator where ventilation is insufficient.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Property	Specification
Appearance	Clear yellow to brown liquid
Odour	Strong phenolic, spicy, smoky, peppery
Physical State	Liquid
Relative Density (20°C)	0.900 – 1.200
Refractive Index (20°C)	1.524 – 1.535
Optical Rotation	-5° to +5°
Solubility	Soluble in alcohol; insoluble in water

These analytical values are consistent with published supplier specifications for *Piper betle* leaf oil.

SECTION 10: STABILITY AND REACTIVITY

Stable under recommended storage conditions.

Avoid:

- Excessive heat
- Strong oxidising agents

Hazardous decomposition products:

- Carbon monoxide
- Carbon dioxide.

SECTION 11: TOXICOLOGICAL INFORMATION

Routes of exposure:

- Skin
- Eyes
- Inhalation
- Ingestion

May cause:

- Allergic skin reaction
- Eye irritation
- Skin irritation following prolonged exposure

Chemotype-dependent constituents such as safrole and estragole should be considered during cosmetic safety assessment where present.

SECTION 12: ECOLOGICAL INFORMATION

Avoid uncontrolled release into the environment.

No comprehensive ecotoxicological data are available for the complete natural essential oil.

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of product and packaging in accordance with applicable local, regional and national regulations.

SECTION 14: TRANSPORT INFORMATION

UN Number: Not regulated

ADR/RID: Not regulated

IMDG: Not regulated

IATA: Not regulated

Packing Group: Not applicable

SECTION 15: REGULATORY INFORMATION

Botanical Name: *Piper betle* L.

INCI Name: *Piper Betle* Leaf Oil

CAS Number: 84775-81-5

EC Number: 283-910-2

Intended Use: Fragrance ingredient and perfumery raw material.

SECTION 16: OTHER INFORMATION

This Safety Data Sheet has been prepared using verified supplier Safety Data Sheets and published regulatory information for Betel Leaf Essential Oil (Piper betle L.).

The verified identifiers are:

- **CAS Number:** 84775-81-5
- **EC (EINECS) Number:** 283-910-2

The chemical composition of Betel Leaf Essential Oil varies considerably according to cultivar and geographical origin. Major constituents may include chavicol, chavibetol, eugenol, hydroxychavicol, safrole and estragole. Batch-specific GC-MS analysis is recommended where detailed compositional data are required.

Authorized by

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