501 SPICES

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FROM MADAGASCAR

TECHNICAL DATA SHEET

CLOVE BUD ESSENTIAL OIL

Syzygium aromaticum (L.) Merr. & L.M. Perry

1. PRODUCT IDENTIFICATION

Parameter	Specification
Product Name	Clove Bud Essential Oil
Botanical Name	Syzygium aromaticum (L.) Merr. & L.M. Perry
Family	Myrtaceae
Country of Origin	Madagascar
Part Used	Flower buds (Clove buds)
Extraction Method	Steam Distillation
CAS Number	8000-34-8
EINECS Number	284-638-7
FEMA Number	2325
Harvest Period	October – January

2. DESCRIPTION

100% pure and natural essential oil obtained by steam distillation of dried flower buds of Syzygium aromaticum.

Free from additives, solvents, preservatives and synthetic ingredients.

3. ORGANOLEPTIC CHARACTERISTICS

Parameter	Specification
Appearance	Clear mobile liquid
Color	Pale yellow to yellow-brown
Odor	Powerful, warm, spicy, eugenol-rich, characteristic clove aroma
Taste	Spicy, pungent (not tested routinely)

4. PHYSICAL & CHEMICAL CHARACTERISTICS

Parameter	Specification
Relative Density at 20°C	1.040 – 1.063
Refractive Index at 20°C	To be specified on COA
Optical Rotation at 20°C	To be specified on COA
Flash Point	> 93°C
Solubility	Insoluble in water, soluble in alcohol

Values may vary according to crop, origin and production batch.

5. MAIN CONSTITUENTS (TYPICAL RANGE)

Constituent	Typical Range (%)
Eugenol	75 – 87
Eugenyl Acetate	8 – 15
β-Caryophyllene	2 – 7
α-Humulene	0.1 – 1.0

Villa Martin 25 Rue Labigorn | Cité Duplex Pile 32/12 | 501 Toamasina – Madagascar

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Other identified compounds	up to 100

The composition may vary according to raw material and batch.

TYPICAL ANALYSIS — 501 SPICES LOT N°04-110626

Constituent	Result (%)
Eugenol	80.3
Eugenyl Acetate	13.9
β-Caryophyllene	4.4
α-Humulene	0.5

Compliant with NF ISO 3142.

6. PACKAGING

Packed in food-grade HDPE drums.

Available packaging:

- 5 kg
- 10 kg
- 25 kg
- 180 kg

Net weight according to customer requirements.

7. STORAGE CONDITIONS

Store in tightly closed containers in a cool, dry and well-ventilated area, protected from heat, moisture and direct sunlight.

8. SHELF LIFE

24 months under recommended storage conditions and in original unopened packaging.

9. REGULATORY COMPLIANCE

This product complies with:

- ISO 3142 — Oil of Clove Bud
- IFRA Standards (latest revision)
- European Regulation (EC) No. 1223/2009 (Cosmetics)
- REACH requirements where applicable
- 100% Pure and Natural Essential Oil
- Non-GMO
- No additives or solvents