501 SPICES

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VANILLA • SPICES • ESSENTIAL OILS

FROM MADAGASCAR

TECHNICAL DATA SHEET

CLOVE LEAF ESSENTIAL OIL

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

1. PRODUCT IDENTIFICATION

Parameter	Specification
Product Name	Clove Leaf Essential Oil
Botanical Name	Syzygium aromaticum (L.) Merr. & L.M. Perry
Family	Myrtaceae
Country of Origin	Madagascar
Part Used	Leaves
Process	Steam Distillation
CAS Number	8000-34-8 / 8015-97-2
EINECS Number	284-638-7

2. DESCRIPTION

100% pure and natural essential oil obtained by steam distillation of Clove leaves.

Product is free from additives and solvents.

3. ORGANOLEPTIC CHARACTERISTICS

Parameter	Specification
Appearance	Clear mobile liquid
Color	Yellow to dark brown
Odor	Warm, spicy, woody, characteristic of clove

4. PHYSICAL & CHEMICAL CHARACTERISTICS

Parameter	Specification
Relative Density at 20°C	1.030 – 1.055
Refractive Index at 20°C	1.528 – 1.538
Optical Rotation at 20°C	−2° to +2°

Values may vary according to raw material and batch.

5. MAIN CONSTITUENTS (TYPICAL RANGE)

Constituent	Typical Range (%)
Eugenol	80 – 92
Eugenyl Acetate	0.2 – 2
β-Caryophyllene	5 – 15
α-Humulene	0.5 – 3
Caryophyllene Oxide	0.2 – 2
Other identified compounds	up to 100

The composition may vary according to raw material and batch.

6. PACKAGING

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

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Packed in food-grade HDPE drums, net weight 25 kg.

7. STORAGE CONDITIONS

Store in a cool, dry place, away from light and heat, in tightly closed containers.

8. SHELF LIFE

24 months under recommended storage conditions.

9. REGULATORY COMPLIANCE

This product complies with:

- IFRA Standards, latest revision
- Regulation (EC) No. 396/2005 and subsequent amendments regarding Maximum Residue Levels (MRLs) for pesticides
- 100% Pure and Natural Essential Oil