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FROM MADAGASCAR

TECHNICAL DATA SHEET

FRESH GINGER ESSENTIAL OIL

Zingiber officinale Roscoe

1. PRODUCT IDENTIFICATION

Parameter	Specification
Product Name	Fresh Ginger Essential Oil
Botanical Name	Zingiber officinale Roscoe
Family	Zingiberaceae
Country of Origin	Madagascar
Part Used	Rhizome
Process	Steam Distillation
CAS Number	8007-08-7
EINECS Number	283-634-2

2. DESCRIPTION

100% pure and natural essential oil obtained by steam distillation of fresh Ginger rhizomes.

Product is free from additives and solvents.

3. ORGANOLEPTIC CHARACTERISTICS

Parameter	Specification
Appearance	Clear mobile liquid
Colour	Yellow to pale yellow
Odour	Fresh, spicy, warm and characteristic

4. PHYSICAL & CHEMICAL CHARACTERISTICS

Parameter	Specification
Relative Density at 20°C	0.870 – 0.880
Refractive Index at 20°C	1.460 – 1.470
Optical Rotation at 20°C	-25° to -15°
Flash Point	57 – 60 °C (Closed Cup)

Values may vary according to raw material and batch.

5. MAIN CONSTITUENTS (TYPICAL RANGE)

Constituent	Typical Range (%)
α-Zingiberene	23 – 45
β-Sesquiphellandrene	8 – 17
Camphene	0.2 – 13.0
ar-Curcumene	3 – 11
1,8-Cineole	3 – 10
β-Bisabolene	2.5 – 9.0
Citral (Geranial + Neral)	0.2 – 8.0
α-Pinene	0.1 – 6.0
Geraniol	0.1 – 3.5

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Other identified compounds	up to 100

Composition is indicative, based on ISO 16928:2014 and independent reference analyses; it may vary according to raw material and batch.

6. PACKAGING

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
- REACH registration status to be confirmed by the importer based on tonnage (not exempt under Annex V, as this substance meets CLP hazard classification criteria)
- 100% Pure and Natural Essential Oil