

TECHNICAL DATA SHEET (TDS)

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| Product Name | GINGER ESSENTIAL OIL |
| Botanical Name | Zingiber officinale |
| CAS # | 8007-08-7 ; 84696-15-1 |
| EINECS # | 283-634-2 |
| INCI Name | Homalomena Aromatica Root Oil |

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|---------------------|-------------------------------|
| Part Used | Rhizomes |
| Extraction Method | Steam Distilled Essential Oil |
| Quality | 100% Pure and Natural |
| Note Classification | Middle Note |

| <u>PROPERTIES</u> | <u>SPECIFICATIONS</u> |
|-------------------------|--|
| Appearance | Pale yellow to orange brown colored liquid |
| Odour | Warm, smooth, sweet, spicy aroma reminiscent of fresh cut ginger |
| Refractive Index | 1.480 - 1.495 @ 20°C |
| Specific Gravity (g/mL) | 0.865 - 0.894 @ 20°C |
| Optical Rotation (°) | -52° to -10° |
| Solubility | Soluble in alcohols and fixed oils; Insoluble in water |

| <u>MICROBIAL ANALYSIS</u> | <u>SPECIFICATIONS</u> | <u>STANDARDS</u> |
|------------------------------------|-----------------------|------------------|
| Aerobic Mesophilic Bacterial Count | < 100 CFU/g | ISO 21149 |
| Yeast and Mould | < 10 CFU/g | ISO 16212 |
| Candida albicans | ABSENT / 1g | ISO 18416 |
| Escherichia coli | ABSENT / 1g | ISO 21150 |
| Pseudomonas aeruginosa | ABSENT / 1g | ISO 22717 |
| Staphylococcus aureus | ABSENT / 1g | ISO 22718 |

| <u>HEAVY METAL TESTS</u> | <u>SPECIFICATIONS</u> | <u>STANDARDS</u> |
|----------------------------|-----------------------|------------------|
| Lead: Pb (mg/kg or ppm) | < 10 ppm | na |
| Arsenic: As (mg/kg or ppm) | < 2 ppm | na |
| Mercury: Hg (mg/kg or ppm) | < 1 ppm | na |

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