

TECHNICAL DATA SHEET (TDS)

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| Product Name | CITRONELLA ESSENTIAL OIL |
| Botanical Name | Cymbopogon winterianus |
| CAS # | 8000-29-1 ; 91771-61-8 |
| EINECS # | 294-954-7 |
| INCI Name | Cymbopogon Winterianus (Citronella) Herb Oil |

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

| <u>PROPERTIES</u> | <u>SPECIFICATIONS</u> |
|--------------------------------|--|
| Appearance | Pale yellow to dark yellow colored liquid |
| Odour | Sweet, fresh, lemony, grassy-green aroma |
| Refractive Index | 1.463 - 1.485 @ 20°C |
| Specific Gravity (g/mL) | 0.881 - 0.901 @ 20°C |
| Optical Rotation (°) | -5° to +2° |
| 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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