

## TECHNICAL DATA SHEET (TDS)

|                       |                                       |
|-----------------------|---------------------------------------|
| <b>Product Name</b>   | <b>PETITGRAIN OIL</b>                 |
| <b>Botanical Name</b> | <i>Citrus reticulata</i>              |
| <b>Product Code</b>   | E262                                  |
| <b>CAS #</b>          | 8014-17-3 ; 84929-38-4                |
| <b>FEMA #</b>         | 2854                                  |
| <b>EINECS #</b>       | 284-521-0                             |
| <b>INCI Name</b>      | Citrus Reticulata (Mandarin) Leaf Oil |

|                            |                               |
|----------------------------|-------------------------------|
| <b>Part Used</b>           | Leaves                        |
| <b>Extraction Method</b>   | Steam Distilled Essential Oil |
| <b>Quality</b>             | 100% Pure and Natural         |
| <b>Note Classification</b> | Top to Middle Note            |

| <u>PROPERTIES</u>              | <u>SPECIFICATIONS</u>                                   |
|--------------------------------|---------------------------------------------------------|
| <b>Appearance</b>              | Amber yellow colored liquid                             |
| <b>Odour</b>                   | Sweet, slightly tangy, fruity grape and plum-like odour |
| <b>Refractive Index</b>        | 1.498 - 1.547 @ 20°C                                    |
| <b>Specific Gravity (g/mL)</b> | 0.970 - 1.044 @ 20°C                                    |
| <b>Optical Rotation (°)</b>    | +2° to +13°                                             |
| <b>Solubility</b>              | Soluble in alcohols and fixed oils; Insoluble in water  |

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

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

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## **STABILITY AND STORAGE:**

Keep in tightly closed container in a cool and dry place, protected from sunlight. When stored for more than 24 months, quality should be checked before use.

**As it is electronically generated document, hence no signature required.**

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