



## **TECHNICAL DATA SHEET (TDS)**

|                       |  |
|-----------------------|--|
| <b>Product Name</b>   | <b>GOLDEN JOJOBA OIL</b>               |
| <b>Botanical Name</b> | Simmondsia chinensis                   |
| <b>Product Code</b>   | PCO4010                                |
| <b>CAS #</b>          | 61789-91-1; 90045-98-0                 |
| <b>EINECS #</b>       | 289-964-3                              |
| <b>INCI Name</b>      | Simmondsia chinensis (Jojoba) Seed Oil |

|                          |                       |
|--------------------------|-----------------------|
| <b>Part Used</b>         | Seeds                 |
| <b>Extraction Method</b> | Cold Pressed          |
| <b>Quality</b>           | 100% Pure and Natural |

| <b><u>PROPERTIES</u></b>                    | <b><u>SPECIFICATIONS</u></b>                                     |
|---|--|
| <b>Appearance</b>                           | Pale yellow to golden colored liquid                             |
| <b>Odour</b>                                | Very mild odour  |
| <b>Refractive Index</b>                     | 1.460 - 1.468 @ 20°C   |
| <b>Specific Gravity (g/mL)</b>              | 0.863 - 0.895 @ 20°C   |
| <b>Saponification Value (mgKOH/g)</b>       | 85 - 110   |
| <b>Unsaponifiable Matter (%)</b>            | 45.0 – 55.0  |
| <b>Peroxide Value (meqO<sub>2</sub>/kg)</b> | Less than 2.0  |
| <b>Iodine Value (g I<sub>2</sub>/100g)</b>  | 80 - 92  |
| <b>Acid Value (mgKOH/g)</b>                 | Less than 1.0  |
| <b>Moisture (%)</b>                         | Maximum 0.1%   |
| <b>Solubility</b>                           | Soluble in cosmetic esters and fixed oils;<br>Insoluble in water |

### **FATTY ACID COMPOSITION:**

| <b><u>FATTY ACID</u></b>  | <b><u>C-CHAIN</u></b> | <b><u>SPECIFICATIONS (%)</u></b> |
|---------------------------|-----------------------|----------------------------------|
| <b>Palmitic Acid</b>      | C16:0                 | Maximum 3.00                     |
| <b>Palmitoleic Acid</b>   | C16:1 (n-7)           | Maximum 1.00                     |
| <b>Oleic Acid</b>         | C18:1 (n-9)           | 5.00 – 15.00                     |
| <b>11-Eicosenoic Acid</b> | C20:1 (n-9)           | 65.00 – 80.00                    |
| <b>Erucic Acid</b>        | C22:1 (n-9)           | 10.00 – 20.00                    |
| <b>Nervonic Acid</b>      | C24:1 (n-9)           | Maximum 3.00                     |

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### **WAX ESTERS COMPOSITION:**

| <b><u>WAX ESTERS</u></b> | <b><u>SPECIFICATIONS (%)</u></b> |
|--------------------------|----------------------------------|
| C36                      | Maximum 2.00                     |
| C38                      | Maximum 10.00                    |
| C40                      | 27.00 – 37.00                    |
| C42                      | 45.00 – 56.00                    |
| C44                      | Maximum 13.00                    |
| C46                      | Maximum 2.00                     |

| <b><u>MICROBIAL ANALYSIS</u></b>          | <b><u>SPECIFICATIONS</u></b> | <b><u>STANDARDS</u></b> |
|---|------------------------------|-------------------------|
| <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               |

| <b><u>HEAVY METAL TESTS</u></b>   | <b><u>SPECIFICATIONS</u></b> | <b><u>STANDARDS</u></b> |
|-----------------------------------|------------------------------|-------------------------|
| <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                      |

### **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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