

## TECHNICAL DATA SHEET

|                       |                               |
|-----------------------|-------------------------------|
| <b>Product Name</b>   | <b>SACHA INCHI OIL</b>        |
| <b>Botanical Name</b> | Plukenetia volubilis          |
| <b>Product Code</b>   | PCO4074                       |
| <b>INCI Name</b>      | Plukenetia volubilis Seed Oil |

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

| <u>PROPERTIES</u>                            | <u>SPECIFICATIONS</u>                                  |
|--|--|
| <b>Appearance</b>                            | Pale yellow to golden colored liquid                   |
| <b>Odour</b>                                 | Characteristic mild, nutty odour                       |
| <b>Refractive Index</b>                      | 1.470 - 1.490 @ 20°C                                   |
| <b>Specific Gravity (g/mL)</b>               | 0.905 - 0.935 @ 20°C                                   |
| <b>Saponification Value (mgKOH/g)</b>        | 180 - 210  |
| <b>Peroxide Value (meq O<sub>2</sub>/kg)</b> | Less than 10.0   |
| <b>Iodine Value (g I<sub>2</sub>/100g)</b>   | 180 - 200  |
| <b>Free Fatty Acids (% oleic)</b>            | Less than 5.0  |
| <b>Acid Value (mgKOH/g)</b>                  | Less than 10.0   |
| <b>Solubility</b>                            | Soluble in alcohols and fixed oils; Insoluble in water |

### FATTY ACID COMPOSITION:

| <u>FATTY ACID</u>           | <u>C-CHAIN</u> | <u>SPECIFICATIONS (%)</u> |
|-----------------------------|----------------|---------------------------|
| <b>Palmitic Acid</b>        | C16:0          | 3.00 – 8.00               |
| <b>Stearic Acid</b>         | C18:0          | 2.00 – 4.00               |
| <b>Oleic Acid</b>           | C18:1 (n-9)    | 6.00 – 12.00              |
| <b>Linoleic Acid</b>        | C18:2 (n-6)    | 31.00 – 37.00             |
| <b>Alpha-Linolenic Acid</b> | C18:3 (n-3)    | 42.00 – 55.00             |

### 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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