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

<b>Product Name</b>	<b>MORINGA OIL</b>
<b>Botanical Name</b>	Moringa oleifera
<b>Product Code</b>	PCO4059
<b>CAS #</b>	93165-54-9
<b>EINECS #</b>	296-941-1
<b>INCI Name</b>	Moringa Oleifera 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 greenish golden colored liquid
<b>Odour</b>	Characteristic mild, pleasant odour
<b>Refractive Index</b>	1.460 - 1.474 @ 20°C
<b>Specific Gravity (g/mL)</b>	0.900 - 0.922 @ 20°C
<b>Saponification Value (mgKOH/g)</b>	176 - 196
<b>Peroxide Value (meq O<sub>2</sub>/kg)</b>	Less than 5.0
<b>Iodine Value (g I<sub>2</sub>/100g)</b>	57 - 77
<b>Acid Value (mgKOH/g)</b>	Less than 1.0
<b>Solubility</b>	Soluble in cosmetic esters and fixed oils; Insoluble in water

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### **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	2.00 – 10.00
<b>Palmitoleic Acid</b>	C16:1 (n-7)	1.00 – 5.00
<b>Stearic Acid</b>	C18:0	2.00 – 8.00
<b>Oleic Acid</b>	C18:1 (n-9)	65.00 – 85.00
<b>Linoleic Acid</b>	C18:2 (n-6)	Maximum 2.0
<b>Alpha-Linolenic Acid</b>	C18:3 (n-3)	Maximum 0.5
<b>Arachidic Acid</b>	C20:0	2.00 – 5.00
<b>11-Eicosenoic acid</b>	C20:1 (n-9)	0.50 – 4.00
<b>Behenic Acid</b>	C22:0	3.00 – 10.00

<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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