

TECHNICAL DATA SHEET (TDS)

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

Part Used	Seeds
Extraction Method	Cold Pressed
Quality	100% Pure and Natural

<u>PROPERTIES</u>	<u>SPECIFICATIONS</u>
Appearance	Pale yellow to golden colored liquid
Odour	Very mild odour
Refractive Index	1.460 - 1.468 @ 20°C
Specific Gravity (g/mL)	0.863 - 0.895 @ 20°C
Saponification Value (mgKOH/g)	85 - 110
Unsaponifiable Matter (%)	45.0 – 55.0
Peroxide Value (meqO₂/kg)	Less than 2.0
Iodine Value (g I₂/100g)	80 - 92
Acid Value (mgKOH/g)	Less than 1.0
Moisture (%)	Maximum 0.1%
Solubility	Soluble in cosmetic esters and fixed oils; Insoluble in water

FATTY ACID COMPOSITION:

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

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WAX ESTERS COMPOSITION:

<u>WAX ESTERS</u>	<u>SPECIFICATIONS (%)</u>
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

<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

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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