

TECHNICAL DATA SHEET (TDS)

Product Name	CHAULMOOGRA OIL
Botanical Name	Hydnocarpus wightiana
CAS #	8001-74-9
EINECS #	-
INCI Name	Hydnocarpus wightiana (Chaulmoogra) Oil

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

<u>PROPERTIES</u>	<u>SPECIFICATIONS</u>
Appearance	pale yellow to viscous liquid
Odour	Characteristic mild odour
Refractive Index	1.472 - 1.476 @ 20°C
Specific Gravity (g/mL)	0.950 - 0.960 @ 20°C
Saponification Value (mgKOH/g)	195 - 205
Peroxide Value (meq O ₂ /kg)	Less than 5.0
Iodine Value (g I ₂ /100g)	98 - 103
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>
Myristic Acid	<u>C14:0</u>	<u>Maximum 1.0</u>
Palmitic Acid	<u>C16:0</u>	<u>4.00 – 12.00</u>
Palmitoleic Acid	<u>C16:1 (n-7)</u>	<u>4.00 – 10.00</u>
Oleic Acid	<u>C18:1 (n-9)</u>	<u>3.00 – 8.00</u>
Linoleic Acid	<u>C18:2 (n-6)</u>	<u>1.00 – 3.00</u>
Hydnocarpic Acid	=	<u>15.00 – 30.00</u>
Chaulmoogri Acid	=	<u>20.00 – 40.00</u>
Gorlic Acid	=	<u>20.00 – 35.00</u>

MICROBIAL ANALYSIS	<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

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