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

Product Name	SIBERIAN PINE NUT OIL
Botanical Name	Pinus sibirica
Product Code	PCO4137
INCI Name	Pinus Sibirica Seed Oil

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

<u>PROPERTIES</u>	<u>SPECIFICATIONS</u>
Appearance	Bright yellow to golden colored liquid
Odour	Fresh, softly nutty aroma
Refractive Index	1.460 - 1.480 @ 20°C
Specific Gravity (g/mL)	0.910 - 0.940 @ 20°C
Saponification Value (mgKOH/g)	190 - 250
Peroxide Value (meq O <sub>2</sub> /kg)	Less than 5.0
lodine Value (g l <sub>2</sub> /100g)	130 - 170
Acid Value (mgKOH/g)	Less than 4.0
Solubility	Soluble in cosmetic esters and fixed oils; Insoluble in water



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## **FATTY ACID COMPOSITION:**

FATTY ACID	C-CHAIN	SPECIFICATIONS (%)
Palmitic Acid	C16:0	3.50 – 10.00
Stearic Acid	C18:0	1.00 – 6.00
Oleic Acid	C18:1 (n-9)	20.00 – 35.00
Linoleic Acid	C18:2 (n-6)	40.00 – 66.00
Pinolenic Acid	C18:3	12.00 – 24.00

MICROBIAL ANALYSIS	SPECIFICATIONS	<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

HEAVY METAL TESTS	SPECIFICATIONS	STANDARDS
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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