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TECHNICAL DATA SHEET (TDS)

Product Name	COCOA BEAN OIL	
Botanical Name	Theobroma cacao	
Product Code	PCO4146	
CAS #	8002-31-1	
INCI Name	Theobroma Cacao (Cocoa) Seed Oil	

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

PROPERTIES	SPECIFICATIONS
Appearance	Pale yellow to golden colored liquid
Odour	Characteristic faint odour
Refractive Index	1.450 - 1.490 @ 20°C
Specific Gravity (g/mL)	0.890 - 0.930 @ 20°C
Saponification Value (mgKOH/g)	170 - 200
Peroxide Value (meq O ₂ /kg)	Less than 4.0
lodine Value (g l ₂ /100g)	30 - 85
Free Fatty Acids (% oleic)	Less than 1.5
Moisture (%)	Less than 0.1%
Solubility	Soluble in Cosmetic esters and fixed oils; Insoluble in water

FATTY ACID COMPOSITION:

FATTY ACID	<u>C-CHAIN</u>	SPECIFICATIONS (%)
Palmitic Acid	C16:0	5.00 - 12.00
Stearic Acid	C18:0	6.00 - 16.00
Oleic Acid	C18:1 (n-9)	66.00 - 78.00
Linoleic Acid	C18:2 (n-6)	5.00 - 14.00

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MICROBIAL ANALYSIS	SPECIFICATIONS	STANDARDS
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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