

TECHNICAL DATA SHEET

Product Name	PEQUI OIL
Botanical Name	Caryocar brasiliense
Product Code	PCO4102
CAS #	394238-03-0
EINECS #	-
INCI Name	Caryocar Brasiliense (Pequi) Fruit Oil

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

<u>PROPERTIES</u>	<u>SPECIFICATIONS</u>
Appearance	Pale yellow to red orange colored liquid
Odour	Characteristic mild sweet, fruity odour
Refractive Index	1.460 - 1.480 @ 20°C
Specific Gravity (g/mL)	0.910 - 0.950 @ 20°C
Saponification Value (mgKOH/g)	180 - 220
Peroxide Value (meq O₂/kg)	Less than 8.0
Iodine Value (g I₂/100g)	60 - 95
Acid Value (mgKOH/g)	Less than 5.0
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	34.00 – 45.00
Palmitoleic Acid	C16:1 (n-7)	0.40 – 1.00
Stearic Acid	C18:0	1.50 – 3.00
Oleic Acid	C18:1 (n-9)	45.00 – 60.00
Linoleic Acid	C18:2 (n-6)	1.00 – 3.00
Alpha-Linolenic Acid	C18:3 (n-3)	0.30 – 1.00

Disclaimer & Caution: Please refer to all relevant technical information specific to the product, prior to use. The information contained in this document is obtained from current and reliable sources. Ethereal Ingredients (P) Ltd provides the information contained herein, but makes no representation as to its comprehensiveness or accuracy. Individuals receiving this information must exercise their independent judgment in determining its appropriateness for a particular purpose. The user of the product is solely responsible for compliance with all laws and regulations applying to the use of the product, including intellectual property rights of third parties. As the ordinary or otherwise use(s) of this product is outside the control of Ethereal Ingredients (P) Ltd, no representation or warranty - expressed or implied - is made as to the effect(s) of such use(s), (including damage or injury), or the results obtained. The liability of Ethereal Ingredients (P) Ltd is limited to the value of the goods and does not include any consequential loss. Ethereal Ingredients (P) Ltd shall not be liable for any errors or delays in the content, or for any actions taken in reliance thereon. Ethereal Ingredients (P) Ltd shall not be responsible for any damages resulting from the use of or reliance upon this information.

<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.

Disclaimer & Caution: Please refer to all relevant technical information specific to the product, prior to use. The information contained in this document is obtained from current and reliable sources. Ethereal Ingredients (P) Ltd provides the information contained herein, but makes no representation as to its comprehensiveness or accuracy. Individuals receiving this information must exercise their independent judgment in determining its appropriateness for a particular purpose. The user of the product is solely responsible for compliance with all laws and regulations applying to the use of the product, including intellectual property rights of third parties. As the ordinary or otherwise use(s) of this product is outside the control of Ethereal Ingredients (P) Ltd, no representation or warranty - expressed or implied - is made as to the effect(s) of such use(s), (including damage or injury), or the results obtained. The liability of Ethereal Ingredients (P) Ltd is limited to the value of the goods and does not include any consequential loss. Ethereal Ingredients (P) Ltd shall not be liable for any errors or delays in the content, or for any actions taken in reliance thereon. Ethereal Ingredients (P) Ltd shall not be responsible for any damages resulting from the use of or reliance upon this information.