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MARULA OIL

TECHNICAL DATA

Product Name:	Marula Oil
Botanical Name:	<i>Sclerocarya birrea</i>
INCI Name (USA)	Sclerocarya birrea Seed Oil
CAS #	68956-68-3
EC #	273-313-5

Applications

Rich in anti-oxidants and oleic acid, and extremely stable, marula oil is one of Africa's finest skin and hair care oils. It is an excellent choice for inclusion in formulations for dry skin, as its high content of palmitic acid creates a protective coating on the skin surface. Marula oil absorbs quickly, hydrates the skin, aids in healing skin tissue, reduces redness, reduces trans-epidermal water loss, increases skin smoothness, and conditions hair.

General Properties

Fatty Acid Composition (Range of values)					
Miristic Acid	C 14:0	<1%	Oleic acid (omega 9)	C 18:1 (ω 9)	65-78%
Palmitic acid	C 16:0	9-12%	Linoleic acid (omega 6)	C 18:2 (ω 6)	4-7%
Palmitoleic acid (omega 7)	C 16:1	0-3%	α-linolenic acid (omega 3)	C 18:3 (ω 3)	0-3%
Stearic acid	C 18:0	5-8%	Arachidic acid	C 20:0	<1%

General Properties (cont.)

- Appearance : Liquid at 25°C
- Color : Light gold to light or slightly dark amber
- Clarity : Clear to slightly cloudy. May show "ghosts" if cool.
- Odor : Varies – earthy, nutty, pleasant scent
- Taste : Light, nutty
- Specific Gravity : 0.88 – 0.94
- Iodine value : 70 - 80 g/100g
- OSI (Rancimat) : 34 – 35 h
- Saponification Index : 178 - 199 mg (KOH/g)

Storage conditions

Stable vegetable oil. Shelf life 2+ years.

Containers should be kept closed in order to minimize contamination. Store in a cool (<70° F), dry, well ventilated, place away from heat and light. Keep from extreme heat and away from all sources of ignition.

Note: Cool temperatures may result in coagulation of the fat molecules and appearance of "ghosts" in the oil. Slow and gentle reheating allows the "ghosts" to disappear.

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