



<b>PRODUCT INCI NAME</b>	Mongongo (Schinziophyton rautanenii) seed oil
<b>PLACE OF ORIGIN</b>	Namibia
<b>EXTRACTION METHOD</b>	Cold press
<b>PART OF PLANT</b>	Seeds
<b>CAS number</b>	90063-86-8
<b>EC number</b>	273-313-5

### **MONGONGO (Manketti) OIL PROPERTIES**

Mongongo Oil also known as Manketti Oil is extracted from the kernels of Mongongo tree, an endemic plant to Africa from the Kalahari Desert situated in the South between Botswana, South Africa and Namibia also grows in minor scale in Malawi, Mozambique, Zambia, Somalia, Chad, Sudan, Mali, Niger and Zimbabwe.

The oil is rich, with a light-yellow colour tending towards green, it has a natural smell of hazelnut.

Local people have been using it for centuries to protect skin and hair from wind, sun and dry weather and is now gaining popularity as the rest of the world becomes aware of its beneficial qualities. Archaeological evidence has shown that the fruits were used by the Bushmen as far back as 6000 years. They used the kernels mainly as food but also “chew” the kernels and rub it onto their bodies as a moisturizer against the African heat.

It is nourishing and moisturizing, spreads easily and penetrates without leaving a greasy skin.

### **Oil Composition**

The nut has extremely high fat content (>57%) and contains a plethora of other valuable nutrients, such as calcium, magnesium, iron, copper, zinc and thiamine. Each seed contains approximately 560 mg of vitamin E (tocopherol). The antioxidant properties of this vitamin lend a high degree of thermal and oxidative stability to the oil, which greatly delays onset of rancidity of the oil, even in the intense Southern Africa heat.

The kernel has a protein content of about 25%, and a fat content of about 50%. It has a high vitamin E content - around 560mg per 100 grams of kernel. The nutritional content of the kernel is outstanding. The kernel is 57% fat, and of this, about 43% are polyunsaturated (almost entirely linoleic acid), about 17% saturated fats (palmitic and stearic), and about 18% monounsaturated (oleic).

The kernel contains calcium, magnesium, iron, copper, zinc, thiamine, riboflavin, nicotinic acid, and high concentrations of vitamin E (almost entirely as g-tocopherol). Due to the high g-tocopherol content, the oil is very stable, and does not become rancid in the African heat.

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Mongongo oil is beneficial for topical use because of its content of linoleic acid (between 30% and 54%), the derivatives of which synthesized by the body form part of the composition of cell membranes. Mongongo oil therefore has hydrating, regenerative and restructuring properties. And due to the presence of Eleostearic acid which reacts rapidly with UV light producing polymerization.

### Typical Properties

Acid Value	<6 mg KOH/g
Peroxide value	<20 meqO <sub>2</sub> /kg
Specific gravity (20C°)	0.919-0.930
Refractive Index	1.4844 – 1.4944
Iodine value	105 - 145 I <sub>2</sub> /100g
Saponifation value	190 - 205mg KOH/kg

### Fatty Acid Composition (Range of values)

Saturated fatty acids		Unsaturated fatty acids	
Palmitic acid (C16:0)	5-15%	Oleic acid (omega 9) (C18:1)	14-20%
Stearic acid (C18:0)	4-9%	Linoleic acid (omega 6) (C18:2)	30-55%
		α-linolenic acid (omega 3) (C18:3)	15-29%

### Impresario Beauty Oils Specification

Acid Value	<2
Peroxide Value	<6 mEq/kg
Eschericia coli	Not detected
Mould	< 10 cfu/g
Yeast	< 10 cfu/g



## APPLICATIONS

Mongongo oil is used in many hair and skincare products. It works great as an emollient and a protectant for both the skin and hair and is a good source of Vitamin E, calcium, Omega 6, copper and zinc, all which helps nourishes damaged skin and reduce appearance of wrinkles and fine lines. Mongongo oil is said to offer high levels of polyunsaturated fatty acids which are absorbed in the skin longer. The fatty acids deliver a protective, emollient layer on the surface of the skin and act as a barrier to prevent moisture from escaping through the pores. These fatty acids can retain moisture

and keep the skin glowing, while smoothing out rough texture and diminishing the appearance of wrinkles and fine lines.

Mongongo oil is also a natural sunblock with its alpha-Eleostearic acid properties. The alpha-Eleostearic acid polymerises rapidly under UV light to form a protective film e.g. over the hair.

This oil has naturally high zinc content and, for years, San communities of the Kalahari have used it to safeguard themselves from the desert sun, it also moisturizes and conditions offering additional protection from the elements.

Rich in Vitamin E, Manketti oil works well as a leave-on hair or skin conditioner while the saponification value and refitting agents make it equally as good for soaps.

In addition, Mongongo oil has natural anti-inflammatory properties that can help to soothe breakouts and eczema.

## Cosmetic Applications

- Skin (added in lotions, creams, lip balms, sun care products, body butter formulations and massage oil.)
  - Helps to alleviate dry, scaly and flaky skin,
  - Promotes cellular repair
  - Helps to regenerate and moisturize the skin
  - Reduces inflammation and redness
- Hair (the high fat and protein content makes it a perfect ingredient to treat dry, frizzy, split hair.)
  - It restores the healthy shine and silkiness of hair
  - Offers protection against damages caused by the sun as well as various chemicals applied to the hair
  - It helps to control dandruff and reduce itchy scalp.
  - Protects the hair from environmental pollutants and blow drying

**Can replace Shea Butter and Palm Oil**

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#### HEALTH AND SAFETY AND NON-GMO STATEMENT

- Ionization: Product did not undergo any ionizing treatment & does not contain any ingredient/additive treated by ionization.
- Pesticides: Product conforms with regulation 396/2005 EC and its last amendments.
- Heavy Metals: Product conforms with regulation 1881/2006 EC and its last amendments.
- Non-GMO: Raw materials were not subject to any Genetic Modifications.

#### CONTACT DETAIL

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