

## TECHNICAL DATA SHEET

**Product Name:** Babassu Oil

**INCI Name:** Orbignya Oleifera Seed Oil

**CAS:** 91078-92-1

**Botanical Name:** Orbignya Oleifera Seed Oil

**Chemical Classification:** Fats and Oils

**Functional Category:** Skin and Hair Conditioning Agent ~ Emollient

**Extraction Method:** Cold-Pressed Oil (26–32°C)

**Processing Type:** RBD

**Description:** Natural oil. Represents a natural alternative to petroleum-based products. Due to its high content of saturated fatty acids, primarily lauric acid (C12:0), babassu oil is highly resistant to rancidity. Oleic acid, an omega-9 monounsaturated fatty acid, helps hydrate and nourish the skin, while palmitic acid contributes to the texture and stability of the oil. Regarding vitamin E content, it contains  $\alpha$ -,  $\gamma$ -, and  $\delta$ -tocotrienols in amounts ranging from 67–127 mg/kg. Vitamin E compounds are antioxidant substances that help protect the skin from oxidative damage. The phytosterol profile includes 293–375 mg/kg of  $\beta$ -sitosterol, 106–158 mg/kg of  $\Delta$ -5 avenasterol, and 107–137 mg/kg of campesterol. Total sterol content ranges from 570–766 mg/kg. The physical characteristics of babassu oil are very similar to coconut oil. Organoleptic characteristics: white, semi-solid paste with a neutral to mildly pleasant odor at room temperature. Like coconut oil, it behaves as a butter at lower temperatures and as an oil at higher temperatures. HLB = 8

### Benefits:

- **Hydration:** Helps moisturize and hydrate the skin. Easily absorbed, leaving the skin soft and smooth without a greasy residue. For this reason, babassu oil is suitable for use in various moisturizing lotions and creams.
- **Soothing Effect:** The oil contains fatty acids such as lauric acid and myristic acid, which possess soothing properties and may help nourish the skin. It is especially

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beneficial for dry, irritated, or sensitive skin.

- **Anti-Inflammatory Effect:** Babassu oil contains phytosterols with anti-inflammatory properties. This makes it useful in reducing redness and inflammation associated with skin conditions such as eczema and psoriasis. It also provides a soothing effect on itchy skin.
- **Antioxidant Effect:** The presence of vitamin E and polyphenols gives the oil antioxidant properties. These antioxidants help neutralize free radicals that may damage the skin and contribute to premature aging.
- **Non-Comedogenic Oil:** Babassu oil has a lightweight composition and is considered non-comedogenic, meaning it does not clog pores. This makes it suitable for all skin types, including acne-prone skin, as it may help balance the skin's natural oil production.
- **Hair Conditioning:** In addition to cosmetic applications, babassu oil is also used in hair care products. It may help moisturize the hair and reduce static electricity. It is commonly found in conditioners, hair masks, and styling products.

**Directions for Use and Applications:** In skin care formulations, babassu oil is used at concentrations ranging from 1–100%, while typical usage levels in hair care products range from 0.2–5.0%. Due to its ability to penetrate deeply into the skin, babassu oil provides effective moisturization and is frequently used as a key ingredient in moisturizing creams and body lotions to keep the skin soft, smooth, and hydrated. It is an excellent ingredient in lip balms because of its soothing and moisturizing properties. It helps protect the lips from dryness and cracking, leaving them softer and healthier. Babassu oil is commonly used in shampoos, conditioners, and hair masks. Its ability to penetrate the scalp and hair helps moisturize and restore damaged hair, reduce static electricity, and add shine. Babassu oil is sometimes used in sun care products as an additional ingredient that helps protect the skin from harmful UV rays and reduce skin redness. It is also used as a massage oil due to its soothing effect on the skin. For external use only.

**Animal Testing:** This substance has not been tested on animals.

**GMO:** Non-GMO

**Vegan:** Does not contain ingredients of animal origin.

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