

## CERTIFICATION OF ANALYSIS

### VIRGIN BABAÇU OIL

<b>Scientific name:</b> <i>Orbignya oleifera</i>	<b>Product code:</b> OVBABAVIRG
<b>Source of Raw Material:</b> Cerrado Bioma / Brazil	<b>Batch Number:</b> 4418309
<b>Part Used of the plant:</b> Kernel	<b>Best Before End:</b> December 2022
<b>Production Process:</b> Cold Extraction	
<b>Preservatives:</b> Absent	
<b>Solvent Extraction:</b> Absent	
<b>Origin of the Vegetable Drugs:</b> Wild crafted	

ITEM	UNIT	SPECIFICATION RANGE	TEST METHOD	ANALYTICAL RESULTS
<b>PHYSICAL CHEMISTRY</b>				
Appearance (25° C)	----	liquid	Visual	In accordance
Color	----	Translucent yellow	AOCS 1a 64 - 82	In accordance
Odour	---	Characteristic	--	In accordance
Acid value	mg KOH/g	< 15	AOCS CD3D-63	3,04
Peroxide value	meq/1000g	< 10	AOCS CD8 – 53	1,59
Iodine value	gI <sub>2</sub> /100g	10 - 20	AOCS TG2A – 64	13
Saponification value	Mg KOH/g	240 - 260	AOCS CD3 - 25	236,16
Density	25°C g/ml	0,903 – 0,924	AOCS Cc 10c-95	In accordance
Refractive index (40°C)	-	1,448 - 1,450	AOCS Cc 7–25(09)	In accordance
Unsaponifiable matter (bioactives)	%	< 1	AOCS CA 6A - 40	In accordance
Melting point	C°	22	AOCS CJ 1 -94	In accordance
<b>MICROBIOLOGY</b>				
Total bacteria	cfu/ml	<100	NF ISO 4833	Absent
Fungi and Yeasts	cfu/ml	<100	NF V 08-036	Absent
<b>RESULTS:    (X) APPROVED        ( ) DISAPPROVED</b>				

**SAFETY HEALTH:** product harmless, for cosmetic use only, not suited for human consumption

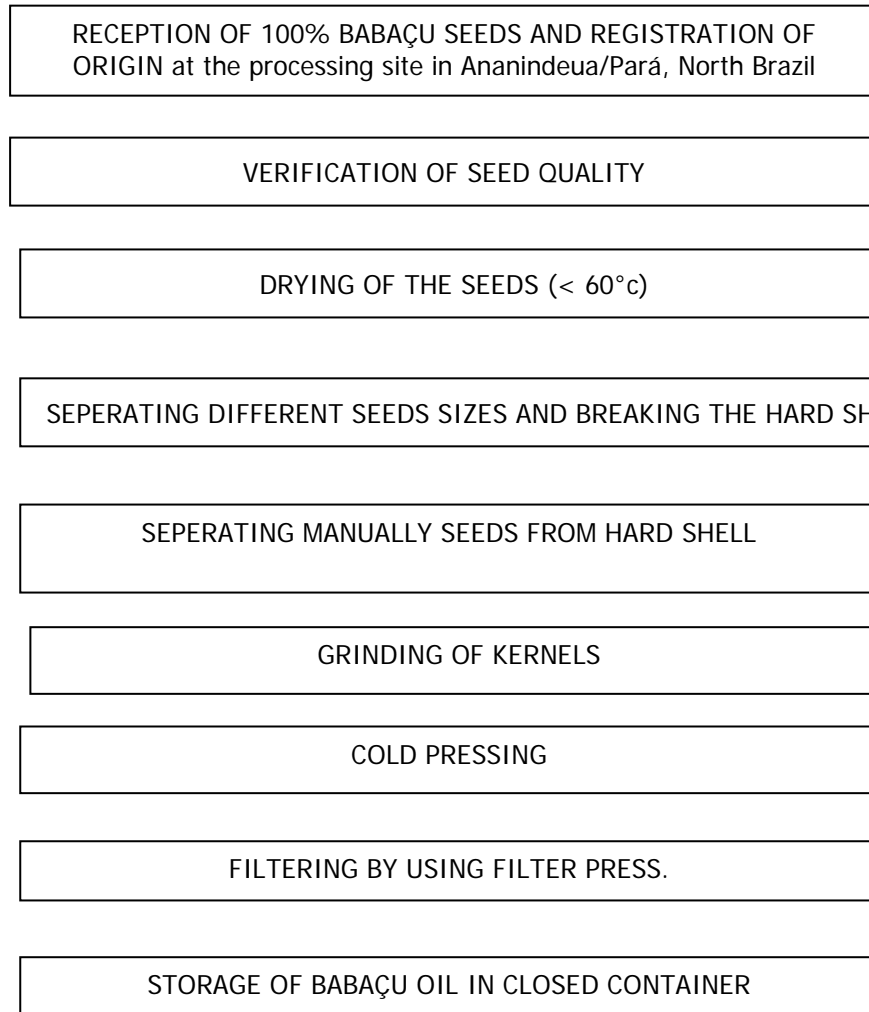
**STORAGE:** should be stored tightly sealed, protected from light and heat.

FATTY CHAIN COMPOSITION		
Caprilic Acid	% weight	4,0 – 6,0
Capric Acid	% weight	6,0 – 8,0
Lauric Acid	% weight	43,0 – 47,0
Miristic Acid	% weight	15,0 – 19,0
Palmitic Acid	% weight	5,0 – 9,0
Stearic Acid	% weight	2,5 – 5,5
Oleic Acid	% weight	12,0 – 16,0
Linoleic Acid	% weight	1,0 – 3,0
Saturated	%	85
Unsaturated	%	15



FLOWCHART FOR THE PROCESSING OF  
COLD PRESSED BABASSU VIRGIN OIL

**Ingredients: BABAÇU SEEDS 100%**





MATERIAL SAFETY DATA SHEET  
VIRGIN BABASSU OIL (*Orbignya oleifera*)

**SECTION 1 – CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

Product:	BABASSU VIRGIN OIL ( <i>Orbignya oleifera</i> )
Product ID:	OVBABAVIRG
Production process:	Cold extraction
Origin:	Amazonian Rainforest, wild crafted
Product use:	Personal Care Formulations
Supplier's name:	MADAR Corporation Limited
Manufacture's address:	19-20 Sandleheath Industrial Estate, Fordingbridge, Hampshire, SP6 1PA
Approved sellers:	Mystic Moments, New Directions, World of Moulds
Date issued:	12 <sup>th</sup> of April 2014

**SECTION 2 – HAZARDOUS IDENTIFICATION**

Classification according to EC regulation 1272/2008 (CLP):

This substance is not classified as hazardous according to regulation (EC) 1272/2008 [CLP].

Classification according to Directive 67/548/EEC or 1999/45/EC

This preparation is not classified as dangerous according to 1999/45/EC.

**GHS LABEL ELEMENTS**

Classification according to EC regulation 1272/2008 (CLP):

<b>Signal word:</b>	Not applicable
2.1. Hazard Pictograms	Not applicable
2.2. Hazard Statements	Not applicable
2.3. Safety Precautions	
2.3.1. General Precautionary statements	P101: If medical advice is needed, have product container or label at hand P102: Keep out of reach of children P103: Read label before use
2.3.2. Prevention precautionary statements	P261: Avoid breathing dust/fume/gas/mist/vapors/spray. P272: Contaminated work clothing should not be allowed out of the workplace. P280: Wear protective gloves. P301 + P310: IF SWALLOWED: Immediately call a POISON CENTER/ doctor/ according to your area. P302 + P352: IF ON SKIN: Wash with plenty of water and soap P302: Call a POISON CENTER or doctor/physician if you feel unwell P331: Do NOT induce vomiting. P321: Specific treatment – see on this label P330: Rinse mouth P333 + P313: If skin irritation or rash occurs: Get medical advice/attention. P362 + P364: Take off contaminated clothing and wash it before reuse. P405: Store locked up.



## MATERIAL SAFETY DATA SHEET

### VIRGIN BABASSU OIL (*Orbignya oleifera*)

	P501: Dispose of contents/container in accordance with local/ regional/ national/ international regulations
<b>Labelling (67/548/EEC or 1999/45/EC)</b>	
2.1. Hazard Symbol	Not applicable
2.2. Risk Phrases	Not applicable
2.3. Safety Phrases	S02 - Keep out of the reach of children. S23 - Do not breathe gas/fumes/vapor/spray (appropriate wording to be specified by the manufacturer). S37- Wear suitable gloves. S62 - If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label

## SECTION 3 – COMPOSITION /INGREDIENT INFORMATION

Substance or mixture:	substance
Ingredients:	Virgin babaçu oil
<b>INCI name</b>	<i>Orbignya oleifera</i> seed oil
Hazardous Components:	Not a hazardous material under the Department of Labor definitions. Is Generally Recognized As Safe (GRAS) under the Food, Drug and Cosmetic Act According to Classification 1999/45/EC not classified as hazardous According to Classification 1272/2208 not classified as hazardous
<b>REACH status (EC 1907/2006)</b>	This product is according to Annex 5, §9 exempted from the registration
CAS #:	91078-92-1
EINECS #:	n/a

## SECTION 4 – First Aid Measures

<b>Description of necessary measures, subdivided according to the different routes of exposure</b>	
Eyes:	Flush eyes with plenty of water or eye wash solution for at least 15 minutes - get medical attention if irritation persists
Skin:	Wash with soap and water - get medical attention if irritation persists
Ingestion:	If ingested in large amounts can cause nausea, vomiting and diarrhea
Inhalation:	Under mist conditions, no short term inhalation limits
Acute:	Not known

## SECTION 5 – FIRE FIGHTING MEASURES

Flash point and Method:	Not determined
Autoignition:	Not determined
Boiling point:	Not determined
Extinguishing Media:	CO2, Dry Chemical, Foam
Special Fire Fighting Procedures:	Class B Fire; Application of water to burning oil can cause splattering; oil will float; use air supplied equipment for fighting interior fires.



## MATERIAL SAFETY DATA SHEET

### VIRGIN BABASSU OIL (*Orbignya oleifera*)

Unusual Fire & Explosion Hazards:	
Explosion Hazard:	None
Possible risk of auto ignition/spontaneous combustion under high temperature/closed conditions if material is absorbed on various matrices and oxygen present.	

## SECTION 6 – ACCIDENTAL RELEASE MEASURES

If material is spilled:	No specific hazards: material is non-hazardous; if in mist form and levels are above 15g/m <sup>3</sup> (total), a dust mask and goggles are required
Personal Precautions:	
Respiratory Protection:	Not normally needed
Ventilation:	Intermittent clean air exchanges recommended, but not required
Protection gloves:	Not normally needed
Eye Protection:	Not normally needed
Environmental precautions:	Dispose of in accordance with local, state and federal regulations

## SECTION 7 – HANDLING & STORAGE

Handling:	No special requirements
Storage requirements for storage areas and containers:	Store in a cool, dry location, in a sealed container, don't expose to direct sunlight, keep storing temperature below 77°F (25°C)
Shelf life:	24 months, should be stored tightly sealed, protected from light and heat

## SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

Eye Protection:	Safety Glasses
Skin Protection:	N/A
Respiratory Protection:	Not needed under normal conditions of use
Ventilation:	Area should be well ventilated
Special:	N/A
Mechanical:	N/A
Other Protective Clothing:	None
Work/Hygienic Practices:	Normal work and hygiene practices for handling non-hazardous liquid material

## SECTION 9 – PHYSICAL & CHEMICAL PROPERTIES

Physical State:	liquid
Appearance:	white
Odor:	Typical vegetable butter odor, characteristic
Specific density	0,924
Solubility in water:	Insoluble
Liquid surface tension:	25 dynes/cm @ 20°C
Melting point:	22 - 26 °C



MATERIAL SAFETY DATA SHEET  
VIRGIN BABASSU OIL (*Orbignya oleifera*)

Vapor pressure (mm Hg):	N/A
Evaporation rate:	Greater than 1
Water reactive:	No

## SECTION 10 – STABILITY & REACTIVITY

Stability:	Generally stable, becomes rancid on extended exposure to air, avoid strong oxidizers
Conditions to avoid:	N/A
Incompatibility:	None
Hazardous Decomposition Products	N/A
Hazardous Polymerization:	Will not occur

## SECTION 11 – TOXICOLOGICAL INFORMATION

Acute toxicity:	Acute effects are not expected after exposure to the product. DL50 oral: not determined DL50 dermal: not determined CL50: not determined
Skin irritation:	May cause mild skin irritation
Eye irritation:	May cause mild irritation to eyes
Respiratory or skin sensitization	not expected sensitizing effects after exposure to the product
Germ cell mutagenicity	not expected that the product presents mutagenic potential
Carcinogenicity	Not expected that the product has carcinogenic potential
Reproductive toxicity	Not expected that the product present to potential toxicity reproduction
Systemic target organ toxicity - single exposure	Systemic effects are not expected after a single exposure to the product
Systemic target organ toxicity – repeated exposure	systemic effects are not expected after repeated and prolonged exposure to the product
Aspiration Hazard	not determined

## SECTION 12 – ECOLOGICAL INFORMATION

Ecotoxicity:	Product does not present risk
Persistence and degradability	Good degradability
Bioaccumulative potential	No bioaccumulation
Mobility in Soil	Well-tolerated
Other Adverse Effects	Not determined

## SECTION 13 – DISPOSAL CONSIDERATIONS

Waste Disposal Method(s):	Physically clean up, check local landfill disposal requirements
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**SECTION 14 – TRANSPORTATION INFORMATION**

DOT classification:	Not a DOT controlled material (USA); ship as raw material for cosmetically use, not to be loaded with incompatible materials including poisons.
Class/Divison:	Not restricted
Proper shipping name:	N/A
Label:	None
Packing group:	N/A
ID number:	N/A
Hazard:	N/A

**SECTION 15 – REGULATORY INFORMATION**

Immediate (Acute) Health	N
Sudden Release of Pressure	N
Delayed (Chronic) Health	N
Reactivity	N
Fire	N
State Right-To-Know (RTK) Information: Check with specific state authorities since regulations vary within the states.	

**SECTION 16 – ADDITIONAL INFORMATION**

To the best of our knowledge, the information contained herein is accurate and is provided in good faith to comply with applicable federal and state laws. However, we cannot assume any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user.

All materials may present unknown hazards and should be used with caution, although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist.

NA = Not Applicable ND = Not Determined



## Technical Data Sheet Babassu Virgin

<b>Product code:</b> 030	<b>Production Process:</b> Cold Extraction
<b>Scientific name:</b> <i>Orbignya oleifera</i>	<b>Preservatives:</b> Absent
<b>Source of Raw Material:</b> Amazonian Rainforest / Brazil	<b>Solvent Extraction:</b> Absent
<b>Used part of the plant:</b> Kernel	<b>Traceability:</b> guaranteed
<b>Origin of the Vegetable Drug:</b> Wild crafted	<b>Shelf life:</b> 24 months

	CHARACTERISTIC	UNIT	PRESENTATION
01	Appearance (25C°)	----	liquid
02	Color	----	Translucent yellow
03	Odour	----	Characteristic
04	Acid value	mgKOH/g	< 15,0
05	Peroxide value	10 meq O <sub>2</sub> /kg	< 10,0
06	Iodine value	gl2/100g	14 – 17
07	Saponification value	mgKOH/g	240 - 255
08	Density	25°C g/ml	0,903 – 0,924
09	Refractive index (40°C)	-	1.448 - 1.450
10	Unsaponifiable matter (bioactives)	%	< 1
11	Melting point	C°	22
12	<b>FATTY CHAIN COMPOSITION</b>		
	Caprylic Acid	% weight	4,0 – 6,0
	Capric Acid	% weight	6,0 – 8,0
	Lauric Acid	% weight	43,0 – 47,0
	Miristic Acid	% weight	15,0 – 19,0
	Palmitic Acid	% weight	5,0 – 9,0
	Stearic Acid	% weight	2,5 – 5,5
	Oleic Acid	% weight	12,0 – 16,0
	Linoleic Acid	% weight	1,0 – 3,0
	Saturated	%	85
	Unsaturated	%	15
13	<b>MICROBIOLOGY</b>		
	Total bacteria	g	<100 / g
	Fungi and Yeasts	g	<100 / g

**SAFETY HEALTH:** product harmless, for cosmetic use only, not suited for human consumption

**STORAGE:** should be stored tightly sealed, protected from light and heat.





## GMO-free CERTIFICATE

### **Babassu Oil** (*Orbignya oleifera*)

Madar Corporation Limited certifies that the cold pressed babassu oil (*Orbignya oleifera*) does not contain Genetically Modified Organisms (GMO) and therefore complies with the **European Legislation 1829/2003/CE and 1830/2003/CE.**

15<sup>th</sup> of June 2019



## VEGAN CERTIFICATE FOR BABASSU OIL

We hereby certify that the BABASSU OIL (*Orbignya oleífera*) **DOES NOT** contain ingredients of meat, fish, fowl, animal by-products (including silk or dyes from insects), eggs or egg products, milk or milk products, honey or honey bee products, or be clarified or finished with any animal products.

Futhermore, Babassu Oil did not get in contact with animal products during manufacturing process.

15<sup>th</sup> of June 2019