MATERIAL SAFETY DATA SHEET (MSDS)

1. IDENTIFICATION OF THE SUBSTANCE AND COMPANY

Material Name: Babassu Oil
Chemical Description: Babassu Oil, ***Orbignya oleifera.***
Product Code: 0108CNOIL

2. COMPOSITION / INFORMATION ON INGREDIENTS

INCI name[1] (CTFA)	CAS no.	EINECS no.	Concentration[2]	EU Symbol	EU R-Phrase
Orbignya oleifera seed oil	**352458 – 32 - 3**		**A**	No health risk	No health risk

INCI name (EU labeling) [1]	CAS no.	EINECS no.	Concentration[2]	EU Symbol	EU R-Phrase
Orbignya oleifera seed oil	**352458 – 32 - 3**		**A**	No health risk	No health risk

[1] CTFA dictionary
[2] FDA – Code (A = >50 %, B = 25 -50%, C = 10 – 25%, D = 5 -10%, E = 1 -5 %, F = 0,1 -1, G = <0,1%)

3. HAZARD IDENTIFICATION

This product is a pure vegetable butter which is not considered to present any hazard during normal use. Non Dangerous, Non Hazardous product, usually accepted as a sage commodity (GRAS) in accordance to the food, drugs and cosmetics legislation.

Risks Classification	NFPA 04	HMIS
H = Health	**0**	**0**
F = Flammability	**0**	**0**
R = Reactivity	**0**	**0**
S/R = Special recommendations	**NW**	**NW**

CODES RISKS	4 -EXTREME	3 – HIGH	2 - MODERATE	1 – LIGHT	0 – NO RISKS	N/W – USE NO WATER

4. FIRST AID

Inhalation	At ambient/normal handling temperature (0 – 38 deg. C), no adverse effects due to inhalation of vapor are expected. But excessive exposure to the oil vapor may affect the breading system. If inhalation occurred, expose the individual to fresh air.
Skin contact	No adverse effects due to skin contact expected. Wash with water and soap. Sensible individuals may present dermatology alterations after long exposition to the oil.
Eye contact	Rinse with water. In case of irritation seek medical advice.
Ingestion	No adverse effects due to ingestion are expected.

5. FIRE – FIGHTING MEASURES

Classification	Combustible Liquid Class III - B
Ignition point	Above 228 graus Celcius – Method used Cleveland Cup
Extinguishing media	CO2 chemical powder, sand, foam.
Extinguishing media not	Water.

applicable	
Fire and explosion hazards	Combustible material, low hazard. The product can form flammable mixtures or can burn only on heating above the flash point. However, minor contamination by hydrocarbons of higher volatility may increase the hazard. Leakage or conditions resulting in impregnation of this oil with some porous materials such as rags, paper, insulation or clay may cause spontaneous combustion. Special fire-fighting procedures: Water fog or spray, to cool fire-exposed surfaces (e.g. containers) and to protect personnel, should only be used by personnel trained in firefighting. Do avoid the use of water directly over the flames; it could disperse the oil and thus the fire. Cut off "fuel", depending on circumstances, either allows the fire to burn out under controlled conditions or use foam or dry chemical powder to extinguish the fire. Respiratory and eye protection required for firefighting personnel exposed to fumes or smoke.
Ignition risks and unusual explosions	Textile sheets and paper sheets imbibed with the product may spontaneously heat and burn.
Hazardous combustion products	Smoke, carbon monoxide and carbon dioxide.
Protection of Firefighters	Use adequate eye and skin protection; water suitable self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	None Known
Environmental Precautions	None
Methods of Cleaning Up	Materials is biodegradable and does not require special cleanup.

7. SAFETY OPERATION GUIDELINES

Masks, glasses and ventilation are desirable but not mandatory. Gloves are required.

8. HANDLING AND STORAGE

Handling	None restrictions
Storage	Store at room temperature
Suitable Packaging Materials	Opaque, tightly sealed container.

9. EXPOSURE CONTROL / PERSONAL PROTECTION

Engineering measures	Ensure ventilation or local exhaust it formation of vapor occurs
Hygiene measures	Good industrial hygiene should be followed
Occupational Exposure Limits	No occupational exposure limits have been established.
Personal Protection Equipment	Normal protection should be observed as for handling all chemicals

10. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid viscous
Aspect at 25 °C	Liquid
Color	Translucent Yellow
Odor	Not deodorized
pH	No data
Boiling Point (°C)	No data
Density at 25 °C (g/cm^3)	0,917
Refraction value at 40°C (Zeiss)	1,40
Iodine value (gI_2/100g)	95
Saponification value (mgKOH/g)	196
Peroxide value (meq/1000g)	≤10
Acid value (mgKOH/g)	≤10

Solubility in water	Insoluble
Fatty acid distribution	No data
Others (%)	No data
Partition coefficient	No data

11. STABILITY AND REACTIVIY

Stability Conditions to avoid	Stable under normal conditions
Incompatible materials	Avoid contact with strong oxidants such as liquid chlorine and concentrated oxygen.
Hazardous decomposition products	Smoke and carbon monoxide may be formed in the event of incomplete combustion. Product does not decompose at ambient temperature

12. TOXICOLOGICAL INFORMATION

Effects of over exposure inhalation : skin contact	No hazard normal industrial use.
Primary cutaneous irritation	Not considered irritating.
Repeated cutaneous irritation	Not considered irritating
Maximized cutaneous sensibilization	Not considered sensitizer
Repeated cutaneous photoirritation	Not considered photo irritating
Maximized cutaneous photosensibilization	Not considered photosensitizer
Phototoxicity	Not considered phototoxic
Eye contact	-
Ocular irritation 7 days	-
Toxicity data	-
Oral, rat, LD 50	-
Dermal, rat, LD 50	-

13. ECOLOGICAL INFORMATION

Comment	None
Ecotoxicity	None

This assessment is based on general information for vegetable oils. The oil will largely on the soil surface, and in water, will remain largely on the water surface. No harmful effects to terrestrial or aquatic habitats would be expected. This product is expected to be biodegradable.

14. DISPOSAL CONSIDERATIONS

Methods of Disposal	Dispose in a accordance with local, state and federal regulations
EU Code of Disposal	Dispose in accordance with local regulations.

15. TRANSPORT INFORMATION

Usual shipping containers	Road tankers, liquid containers, drums.
Transport temperature (°C)	10 – 25 °C
Transport sea/air	Not regulated
Transport land	Not regulated

16. REGULATORY INFORMATION

EC Regulations	N/A
EC Classifications	N/A

Label Name	Babassu virgin oil
Risk Phrases	None
None Hazard Symbols	None

17. OTHER INFORMATION

Product type/uses	Glycerides of fatty acids
Source of key data	The recommendations presented in this Material Safety Data Sheet (MSDS) were compiled from actual test data, when available, comparison with similar products, component information from suppliers and from recognized codes of good practice.

The information and recommendations contained herein are, to the best of our knowledge and belief, accurate and reliable as of the date issued, but are offered without guarantee or warranty. They relate to the specific material designated and may process.
Conditions of use the material are under the control of the user, therefore, it is user`s responsibility to satisfy himself as to the suitability and completeness of such information for this own particular use.
This data sheet was prepared in accordance with directive 88/379/EEC 2 – directive 91/155/CEE
EU labeling : INCI name according amending Decision 96/335/EC of 09 February 2006 establishing an inventory and a common nomenclature of ingredients employed in cosmetic products.