

WALA MORINGA SEED OIL



Botanical & Traditional Context

Scientists commonly refer to *Moringa Oleifera* (Moringa) as the 'miracle tree' due to the myriad of nutritional benefits offered by all parts of the plant.

The moringa pod (or fruit) is green, long and slender – usually 30cm-50cm in length. When opened, the highly prized black-winged seeds are revealed, numbering between 5-20 per fruit.

Originating from India, the moringa plant is now a common part of Africa's smallholder farming landscape. Grown in various regions across Africa, moringa harvests from December to March in southern Africa, and June to September in the northern regions.

The word 'wala' means to appear radiant or shine in the African language of Chichewa, which is spoken in Malawi – one of our sourcing regions.

Product Name & Variants

Wala Moringa Seed Oil – Unrefined

Wala Moringa Seed Oil – Refined.



Ingredients

Contents: 100% *Moringa oleifera* seed oil

Stabilizers: Blanketed with nitrogen.

Registration and Regulatory

| | |
|---------------|---|
| INCI: | <i>Moringa Oleifera</i> (Moringa) Seed Oil |
| CAS No: | 93165-54-9 |
| EINECS No: | 296-941-1 |
| ABS/Nagoya: | Compliant |
| REACH Status: | Exempt - natural product. |

Key Application/s

Skin microbiome:

- > Skin microflora rebalance
- > Cleansing and anti-blemish/spots

Anti-oxidant

Protection and recovery - barrier function.

Key Content

High oleic and meaningful behenic fatty acids
Relatively balanced α -, β -, and γ -tocopherol ratios
High levels of β -sitosterol, Δ^5 -avenasterol, and campesterol
Lipid soluble antioxidants.

Benefits

Stratum corneum integrity
Anti-oxidant
Anti-microbial.

Physiochemical Properties

| Property | Unrefined | Refined |
|---|--|---|
| Physical State at 20°C | Light yellow - green colour, liquid form, with characteristic odour. | Clear - pale yellow colour, liquid form, with no-low odour. |
| Acid Value (mg KOH/g) | 0.0 – 4.0 | 0.0 - 2.0 |
| Peroxide Value (mEq O ₂ /kg) | 0.0 - 7.0 | 0.0 - 2.0 |
| Saponification Value (mg KOH/kg) | 175 – 200 | |
| Unsaponifiable Matter (%) | 0.0 – 1.0 | |
| Iodine Value (g/100g) | 60 - 75 | |
| Moisture (%) | 0.0 - 1.0 | |
| Key Fatty Acid Profile (%) | 16:0 Palmitic acid: | 5.5 – 8.0 |
| | 18:0 Stearic acid: | 4.0 – 8.0 |
| | 18:1 Oleic acid: | 65.0 – 85.0 |
| | 18:2 Linoleic acid: | 0.0 – 1.0 |
| | 20:0 Arachidic acid: | 2.0 – 5.0 |
| | 20:1 Eicosenoic (Gondoic) acid: | 0.0 – 3.0 |
| | 22:0 Behenic acid: | 3.0 – 8.0 |
| Solubility: | Soluble in cosmetics esters and vegetable oils; insoluble in water. | |
| Shelf Life/Retest: | 24 months | 36 Months |

Formulation and Usage (Indicative)

| Category | Form | % Usage (Up to) |
|-----------------------|---|-----------------|
| Facial skin cleansing | Cleansing gels and scrubs | 5 |
| Hand & body care | Moisturising creams, hydration lotions, body massage oils | 10/100 |
| Facial moisturisers | Creams and nano-emulsions | 7 |
| Hair care | Shampoo, conditioner, scalp mask, leave in lotions | 5 |
| Soaps | Hand soap bars, liquid soap | 15 |

Toxicology

Non irritating to skin and eyes. Non-toxic.

Storage

To prolong shelf life, store in dry and light-protected locations, and at ambient temperatures.

Supply & Production Chain

Seed Origin/s: Malawi or Sudan

Manufacture & Location: Cold-pressed in Germany, and physically refined in European (refer CoA for specific location) ISO 9001-, HACCP–certified and food-grade facilities.

Laboratory Testing: Independent and accredited EU laboratories.

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Company Head Office:

Kupanda Ltd
Level 1, 12 Menandrou Street
Nicosia, CY-1066
Cyprus

Africa Office:

Kupanda Africa (Pty) Ltd
Ground Floor, 29 Wessel Road
Rivonia, Sandton 2128
South Africa

Contact:

t: +27 72 857 7291
e: info@kupanda.co
w: www.kupanda.co

