



Organic Kalahari melon seed oil

TECHNICAL DATA SHEET (TDS)

Product Description: Kalahari melon seed oil is the oil expressed from the seeds of the melon from the *Citrullus lanatus* tree. No additives or preservatives are added.

General

Product name:	Organic Kalahari melon seed oil
Product code	OCLO-001
HS Code:	15159059
Supplier:	Zuplex Pty Ltd
E-mail:	dominic@zuplex.co.za/ gill@zuplex.co.za
Latin name of plant material used	<i>Citrullus lanatus (watermelon) semen</i>
Part of plant used	Seed
Geographical origin of the plant	Africa
Kind of extraction	Cold Pressing
Solubility	Soluble in vegetable oils, esters and solvents. Insoluble in water
Certification	EOS and NOP Organic certified

Applications: Kalahari melon seed oil may be applied as an emollient and a carrier oil in the cosmetic industry. It is a light oil that absorbs quickly and helps skin keep its elasticity thereby preventing wrinkles.

Manufacturer/Supplier:

Zuplex (Pty) Ltd
Umbogintwini Industrial Complex (North Gate)
1 Dickens Road,
Umbogintwini,
Durban,
South Africa

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Regulation and Safety

Component INCI	Chemical Name	CAS#	EINECS#
Citrullus lanatus seed oil	Citrullus lanatus seed oil	90244-99-8	290-802-9

Processing

Extraction method: This product is manufactured from raw materials of strictly vegetable origin. The oil is obtained by cold pressing the melon seeds. The oil is filtered for clarity.

Further treatment: No preservatives or production additives.

Composition

Kalahari melon seed oil	100 %
Other constituents (incidental ingredients)	0 %

Product analysis:

Chemical & physical specifications		
Parameter	Specification	
Appearance	Colourless to light yellow - green coloured oil	Visual inspection
Odour	Subtle neutral odour	Inspection
Peroxide Value	< 10	mg KOH/ 1000 g (meq/kg oil)
Acid Value	< 5	mg KOH/g sample (% m/m)
Free Fatty Acids	< 2	g/100g (as Oleic)
Saponification Value	180 – 200	mg KOH/g
Moisture Content	< 0.5	g/ 100 g
Iodine Value	120 – 135	g I ₂ / 100 g
Relative Density @ 20°C	0.86 – 0.95	g/ ml

Fatty acid profile

Main Components		Unit (%)
Palmitic acid	C16:0	8 - 13
Palmitoleic acid	C16:1	< 1
Stearic acid	C18:0	1.5 - 11

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<i>cis</i> Oleic acid	C18:1	20 - 29
<i>cis</i> Linoleic acid	C18:2	55 – 70
n3 Linoleic acid	C18:2	< 2

Microbiology

Batch Specific. A microbiological screening of the product is done on request of customer.

Packaging and Storage

Pack Size:	23.5 kg oil capacity
Primary Packaging:	25 L Epoxy lined drum (food grade)
Shelf Life	24 Months unopened and stored at 15°C.
Recommended Storage Conditions	Closed. Protect from moisture, light and high temperatures

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