

# Macadamia Oil Cosmetic Grade

*Macadamia ternifolia*



## Specification

Product Name:	Macadamia Oil - CG
Product Code:	RMAC1
Appearance (Visual):	Clear mobile liquid
Colour (Visual):	Colourless to pale yellow
Odour:	Odorless to mild
Relative Density @ 25°C/25°C:	0.910 - 0.930
Refractive Index @ 25°C:	1.460 - 1.480
Congel Point:	12°C - 14°C ( <i>not tested</i> )
Saponification Value:	190 - 200
Non Saponifiable Matter:	Maximum 1.5%
Acid Value: (mg KOH/g)	0 - 1.0
Peroxide Value: (meq/Kg)	0 - 5.0 ( <i>when packed</i> )
Iodine Value:	75 - 82

## GC Profile

C12:0 Lauric Acid	<0.5%
C14:0 Myristic Acid	0.5% - 1.6%
C16:0 Palmitic Acid	7.0% - 9.5%
C16:1 Palmitoleic Acid*	15.0% - 22.0%
C18:0 Stearic Acid	2.0% - 5.5%
C18:1 Oleic Acid*	55.0% - 67.0%
C18:2 Linoleic Acid	1.0% - 5.0%
C18:3 Linolenic Acid	0.1% - 3.0%
C20:0 Arachidic Acid	1.5% - 3.0%
C20:1 Eicosenoic Acid*	1.5% - 3.0%
C22:0 Behenic Acid	0.1% - 1.0%

\*Mono-unsaturated fatty acids

Contact SCB for the latest revision of the specification.

## Description

Macadamia Oil - CG is a versatile natural cosmetic oil for high performance emulsions, lip sticks, conditioners and skin lubricants.

It is produced from the cold pressed kernels of *Macadamia ternifolia*, which is indigenous to the sub-tropical coastal rainforest of Australia. The oil is enhanced by a unique refining process resulting in an ultra pure oil with the following benefits for cosmetics:

- High oxidative stability
- Non-oily, dry skin feel
- Enhanced softening effect
- High lubricity
- Colourless and odourless
- Very safe for dermal applications

Macadamia Oil - CG is surprisingly light in texture with a dry, velvet-soft skin feel. It is an excellent skin conditioner, protectant, lubricator and emollient.

It finds wide application in skin care, anti-ageing treatments, sun care, lip care, hair care, baby care, nail care and aromatherapy.



# Macadamia Oil - Cosmetic Grade

## Properties

- ✍ Dry, non-oily emollient
- ✍ Velvet-soft skin feel
- ✍ High penetration
- ✍ Good lubricity
- ✍ Safe for dermal use
- ✍ Good oxidative stability
- ✍ Ultra light consistency
- ✍ Colourless
- ✍ Odourless
- ✍ Biodegradable

## Traditional Use

For thousands of years, the macadamia nut has been eaten by the Australian Aborigines as a 'bush-food' for its high nutritional value and health promoting benefits for radiant skin and shiny hair. The Macadamia tree is native to the sub-tropical coastal rainforest of Australia where the highest quality nuts are grown.

## Anti-ageing Supplement

Macadamia Oil - CG is an ideal anti-ageing supplement for cosmetics, due to its high content of palmitoleic acid (cis-hexadec-9-enoic acid), which is an essential component of human sebum, which is lost with ageing.

Human skin lipids contain 22% palmitoleic acid isomer (cis-hexadec-6-enoic acid) which along with palmitic acid comprise around half the skin lipid content. Its action is thought to be a combination of lubrication, softening and protection of the protein structures and prevention of moisture loss from the skin.

As the production of palmitoleic acid in sebum decreases with ageing, it makes perfect sense to use Macadamia Oil - CG as the principal cosmetic oil in skin care emulsions.

## Stability

Macadamia Oil - CG is over 80% mono-unsaturated, and exhibits one of the highest levels of oxidative stability of any unmodified vegetable oil. With the addition of tocopherols, the stability is enhanced to that of castor and coconut oils, making it ideal for most skin care and cosmetic applications with a superior skin feel.



## Applications

- **Skin Care** - anti-aging supplement and non-greasy emollient (5-10%)
- **Hair Care** - enhanced shine (0.5-1.0%)
- **Soaps** - emollient (1-2%)
- **Sunscreen** - non-greasy emollient and pigment disperser (5-10%)
- **Lip-Stick** - non-greasy emollient and pigment disperser (2-10%)
- **Baby Oil** - non-greasy emollient (100%)
- **Massage Oil** - non-greasy emollient (100%)
- **Aromatherapy** - carrier for essential oils
- Replacement for Mineral Oil and Jojoba Oil in creams and lotions.

## Regulatory Status

- EINECS Number: 273-313-5
- CAS Number: 128497-20-1
- CTFA INCI: Macadamia Ternifolia Seed Oil

## Pack Sizes

- 18 Kg & 200 Kg

## Storage & Handling

Store in a cool, dry place away from direct heat and sunlight.

## Shelf Life

Three years from date of manufacture when stored correctly, unopened in original packaging.

## Contact Details

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*DISCLAIMER: The information contained in this brochure is accurate to the best of our knowledge. As is normal industry practice, intending users should carry out their own tests to ensure suitability of the product for the intended application.*

LEFT: Southern Cross Macadamia plantation in New South Wales.

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