

TECHNICAL DATA SHEET

Product Name: Gotu Kola (Centella) Infused Oil

INCI Name: Centella Asiatica Extract, Helianthus Annuus Seed Oil, Prunus Amygdalus Dulcis Oil, Tocopherol

CAS: 84696-21-9, 8001-21-6, 8007-69-0, 59-02-9

Chemical Classification: Mixture

Functional Category: Skin Conditioning Agent ~ Occlusive, Skin Conditioning Agent ~ Emollient, Antioxidant

Description: Gotu Kola Infused Oil (Centella Oil) is obtained by macerating dried plant material (Centella asiatica extract) in a suitable carrier oil using the so-called "Stove-Top" method. The active compounds gradually transfer from the extract into the oil, enhancing the therapeutic properties of both the base oil and Centella asiatica extract. Cold-pressed linoleic-type sunflower oil is used as the carrier oil, containing a higher percentage of essential linoleic acid and a lower amount of oleic acid, along with sweet almond oil. The oil is yellow, odorless, and preserved with Vitamin E to prevent rancidity. Rancidity is a process of oil degradation caused by oxidation, hydrolysis, or other chemical reactions. When oils become rancid, they may develop unpleasant odors and lose their nutritional properties. This ingredient is widely used in skincare products for its ability to stimulate collagen synthesis and improve skin elasticity. Thanks to its regenerative properties, Gotu Kola Infused Oil is ideal for treating scars, stretch marks, and wrinkles, as it accelerates skin renewal and enhances its structure. Its anti-inflammatory action makes it suitable for sensitive and problematic skin, including acne-prone skin. Additionally, the oil soothes irritations and redness while helping to hydrate and maintain a healthy skin barrier.

Bioactive Compounds: Gotu Kola Infused Oil contains a high level of bioactive compounds essential for its effectiveness in cosmetic products. Pentacyclic triterpenoids, such as asiaticoside, brahmoside, asiatic acid, and brahmie (madassic) acid, are the key active components. These compounds stimulate collagen and elastin synthesis in the skin, promoting tissue repair, reducing the appearance of scars and stretch marks, and enhancing skin firmness and elasticity.

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Asiaticoside is particularly known for its ability to accelerate wound healing by stimulating fibroblast production, the cells responsible for tissue regeneration. Brahmoside and brahmic acid help reduce inflammation and redness, making the oil suitable for sensitive and problematic skin. Centelloside and centellose have regenerative properties and strengthen the skin barrier. They work synergistically with triterpenoids to enhance skin resistance against external aggressors such as pollution and UV radiation. Madecassoside, one of the most potent compounds, possesses strong antioxidant and anti-inflammatory properties. It neutralizes free radicals, slowing down the skin aging process and maintaining a youthful appearance. Additionally, Gotu Kola Infused Oil contains natural vitamins, including vitamins C and E, which contribute to antioxidant protection. These vitamins shield the skin from oxidative stress while maintaining hydration and elasticity. The presence of minerals, such as zinc and magnesium, helps soothe irritations, regenerate skin cells, and improve overall skin texture. Due to this rich composition, Gotu Kola Infused Oil not only nourishes and hydrates the skin but also regenerates, protects, and strengthens its structure, making it one of the most valued ingredients in cosmetic formulations.

Benefits:

- Forms a protective layer on the skin, reducing moisture loss and maintaining hydration.
- Softens and smooths dry and rough skin, improving its texture.
- Strengthens the skin barrier function and protects against harmful environmental factors.
- The antioxidants in the oil protect the skin from free radicals and slow down aging.
- Reduces hyperpigmentation and dark spots, evening out skin tone.
- Stimulates collagen synthesis, regenerates the skin, and reduces the visibility of scars and stretch marks.
- Nourishes the hair and scalp, strengthens hair roots, and reduces breakage.
- Improves hair texture, making it shinier and healthier.

Usage Guidelines: Gotu Kola Infused Oil is widely used in various cosmetic formulations due to its regenerative, moisturizing, and soothing properties. In facial care products, such as serums and lightweight creams, it is recommended at concentrations of 1% to 5%, optimizing skin regeneration and reducing irritation, especially for sensitive or

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problematic skin. For body creams and lotions, concentrations of 5% to 10% enhance skin renewal and firmness, making them useful for treating stretch marks and scars. In massage balms and cellulite treatments, concentrations can reach up to 15%, as the oil promotes microcirculation and strengthens skin structure. In hair care products, such as masks and scalp treatments, it is used at concentrations of up to 5%, delivering nutrients that strengthen hair roots and improve hair texture. When combined with other nourishing oils and active ingredients, Gotu Kola Oil contributes to the formation of balanced and effective cosmetic products. Proper formulation ensures the stability and safety of the final product. When used in recommended concentrations, it provides deep nourishment, hydration, and regeneration without the risk of excessive skin burden or irritation.

Animal Testing: Not tested on animals

GMO Status: Non-GMO

Vegan: Does not contain animal-derived ingredients

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