

TECHNICAL DATA SHEET

Calendula Extract & Hyaluronate Gel

Product Name: Hyaluronate Gel with Calendula Extract

INCI Name: Glycerin, Aqua, Calendula Officinalis Flower Extract, Sodium Hyaluronate, Benzyl Alcohol, Dehydroacetic Acid

CAS Numbers: 56-81-5, 7732-18-5, 84776-23-8, 9067-32-7, 520-45-6, 100-51-6

Chemical Classification: Mixture

Functional Category: Humectant, Soothing Agent, Skin Conditioning Agent

Description: Calendula Extract & Hyaluronate Gel is a combination of Sodium Hyaluronate and Calendula Officinalis Extract designed for skin hydration and soothing care. The formulation is based on an aqueous system with the addition of glycerin, which further supports moisture retention within the superficial layers of the skin.

Sodium Hyaluronate acts as a humectant by binding water and helping maintain an optimal hydration level. It forms a lightweight film on the skin surface that reduces transepidermal water loss. As a result, the skin becomes softer, more elastic, and visually more even in appearance.

Calendula extract provides soothing and mild anti-inflammatory activity. It contains flavonoids and triterpenes that contribute to reducing irritation and redness while supporting skin regeneration and stabilization of the damaged skin barrier. It is suitable for sensitive areas such as the eye contour region, as well as for irritation-prone skin.

The combination of these components provides a balanced moisturizing and calming effect. The gel has a lightweight texture, absorbs quickly, and does not leave a heavy film on the skin. It is compatible with most water-soluble cosmetic raw materials.

The formulation is preserved with a system based on benzyl alcohol and dehydroacetic acid, ensuring microbiological stability. Benzyl Alcohol DHA is eco-

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certified and classified as an environmentally friendly material according to EU regulations and is also accepted by Whole Foods standards. The gel is water-soluble.

Benefits:

- Hydrates the skin by binding water within the superficial layers and maintaining an optimal moisture level.
- Reduces transepidermal water loss by forming a protective film.
- Soothes irritation and redness due to the activity of Calendula extract.
- Supports skin regeneration and accelerates recovery of the damaged skin barrier.
- Improves skin elasticity and leaves the skin softer to the touch.
- Suitable for sensitive areas such as the eye contour region.
- Compatible with various cosmetic formulations and easy to incorporate.

Recommended Use: Added during the cooling phase of formulations at temperatures below 40 °C in order to preserve the stability of Sodium Hyaluronate and Calendula extract. It may be directly incorporated into the water phase or into a finished emulsion with gentle mixing.

In hydrating and soothing serums and gels, it is used at concentrations of 1–5%.

In creams and lotions for daily care, recommended concentrations range from 0.5–3%.

In face masks, especially those intended for intensive hydration, it is used at concentrations of 2–10%.

In products designed for sensitive areas such as the eye contour region, recommended concentrations are 0.5–2%.

In facial toners and mists, it is used at lower concentrations ranging from 0.1–1%.

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The gel is compatible with most water-soluble raw materials, including humectants, mild active ingredients, and soothing extracts. It performs optimally within a pH range of approximately 4.5–6.5.

Animal Testing: In accordance with current European regulations (Regulation (EC) No. 1223/2009 on cosmetic products), this substance has not been tested on animals. The safety assessment of the raw material is based on available toxicological data, scientific literature, and validated alternative testing methods (in vitro and in silico).

“In silico” refers to testing and assessment methods performed using computer models and simulations rather than on living organisms (in vivo) or cell cultures (in vitro).

This statement confirms compliance with the ban on animal testing and is provided solely for informational purposes regarding the further use of the raw material in cosmetic formulations.

GMO Status: GMO-free

Vegan Status: Does not contain components of animal origin