

TECHNICAL DATA SHEET

Product Name: Kakadu Plum Extract & Hyaluronate Gel

Raw Material Name: Hyaluronate Gel with Kakadu Plum Extract

INCI Name: Aqua, Glycerin, Sodium Hyaluronate, Terminalia Ferdinandiana Fruit Extract, Benzyl Alcohol, Dehydroacetic Acid

CAS: 7732-18-5, 56-81-5, 9067-32-7, 1176234-54-0, 100-51-6, 520-45-6

Chemical Classification: Mixture; aqueous hydrating gel based on a polysaccharide and botanical extract.

Functional Category: Humectant; soothing agent; antioxidant botanical complex; skin-conditioning agent.

Description: Kakadu Plum Extract & Hyaluronate Gel is a combination of a water-glycerin extract of Kakadu plum (*Terminalia ferdinandiana*) and Sodium Hyaluronate in gel form. The formulation is based on water and glycerin, which provide basic hydration and enable even distribution of the active components on the skin. Sodium Hyaluronate acts as a humectant. It binds water and maintains hydration levels in the superficial layers of the skin. On the skin surface, it forms a thin hydrating film that helps reduce transepidermal water loss and contributes to maintaining optimal skin hydration. The skin becomes softer and more supple. Kakadu plum extract may contain vitamin C, polyphenols and other antioxidant botanical constituents, the exact content of which depends on the extraction method and standardization of the raw material. These constituents contribute to the antioxidant profile of the product and to protecting the skin from oxidative processes associated with external influences. The extract may contribute to a more even and fresher-looking complexion. The combination of these components provides hydrating and antioxidant care. The gel has a lightweight texture and absorbs quickly. It does not leave a heavy or greasy layer. It is suitable for different skin types and may be used in formulations intended for sensitive areas, such as the eye area, subject to an appropriate safety assessment of the finished product. The formulation is stabilized with a preservative system based on Benzyl Alcohol and Dehydroacetic Acid, which contributes to the microbiological stability of the product. The gel is compatible with the aqueous phase and with most water-soluble cosmetic raw materials.

Benefits:

- **Intensive hydration:** hydrates the skin by binding water and contributes to maintaining an optimal moisture level.

Disclaimer: The details provided here are specific to the identified material and may not remain accurate if that material is combined with other substances or used in different processes. The information presented is, to the best of the company's knowledge, considered precise and trustworthy as of the date mentioned. However, the company does not make any explicit or implied assurance, guarantee, or claim regarding the information's precision, trustworthiness, or comprehensiveness, and will not be held accountable for any losses, damages, or costs, whether direct or indirect, that arise from its use. Users are encouraged to independently verify the appropriateness and thoroughness of this information for their specific purposes.

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- **Moisture retention:** helps reduce transepidermal water loss by forming a hydrating film on the skin surface.
- **Antioxidant protection:** botanical antioxidant constituents of Kakadu plum extract contribute to protecting the skin from oxidative processes.
- **More even-looking skin:** may contribute to a fresher and visually more even-looking complexion.
- **Softness and elasticity:** improves the feeling of elasticity and makes the skin feel softer to the touch.

Usage: Add during the cool-down phase of the formulation, at a temperature below 40 °C, in order to preserve the stability of Sodium Hyaluronate and Kakadu plum extract. It may be incorporated directly into the aqueous phase or into an already formulated emulsion with gentle mixing until complete homogenization. In serums and gels for hydration and antioxidant protection, it is used at concentrations of 1% to 5%. In creams and lotions for daily care, it is used in the range of 0.5% to 3%. In facial masks, particularly those intended for refreshing and revitalizing the skin, it is used at concentrations of 2% to 10%. In products for sensitive areas, such as the eye area, recommended concentrations are 0.5% to 2%, subject to an appropriate safety assessment of the finished product. In facial toners and mists, it is used at lower concentrations, from 0.1% to 1%. It is compatible with most water-soluble raw materials, including humectants, antioxidants and mild active ingredients. It is stable in the pH range of approximately 4.5 to 6.5.

Animal Testing: In accordance with current European legislation (Regulation (EC) No. 1223/2009 on cosmetic products), the 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 is a term used for testing and assessment methods carried out using computer models and simulations, rather than in the laboratory on living organisms (in vivo) or on cell cultures (in vitro). This note confirms compliance with the animal testing ban and serves solely for informational purposes for further use of the raw material in cosmetic formulations.

GMO: Non-GMO

Vegan: Contains no animal-derived components

Country of Origin: China

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