

TECHNICAL DATA SHEET

Product Name: Hydrolyzed Rice Protein

INCI: Water, Hydrolyzed Rice Protein, 1,2-Dihydroxypentane, (+)-Arabinogalactan, 3-O-Ethyl Ascorbic Acid, Benzyl Alcohol, Potassium Sorbate, Sodium Benzoate

CAS: 7732-18-5, 94350-05-7, 5343-92-0, 9036-66-2, 86404-04-8, 100-51-6, 24634-61-5, 532-32-1

Chemical Classification: Proteins, Derivatives

Functional Category: Conditioner for Skin and Hair Care

Description: Hydrolyzed rice protein is a cosmetic ingredient obtained through the hydrolysis of rice protein, where long protein chains are broken down into smaller fragments such as peptides and free amino acids. This process enhances the bioavailability and efficacy of the protein, allowing deeper penetration into the skin and hair. In cosmetic formulations, hydrolyzed rice protein is particularly valued for its ability to hydrate, protect, and strengthen both skin and hair. In skincare products, it acts as a powerful humectant, helping the skin retain moisture and preventing dehydration. This ingredient forms a protective barrier on the skin's surface, aiding in the preservation of the hydrolipidic layer. Due to its rich amino acid content, it stimulates skin regeneration, accelerating the healing of irritations and damage. Additionally, it has soothing properties, reducing redness and inflammation, making it ideal for sensitive skin care products. When used in hair care products, hydrolyzed rice protein reinforces hair structure, making it more resistant to breakage and damage caused by external factors such as heat or chemicals. Its ability to improve hair elasticity and enhance its appearance results in softer, shinier hair. Protein fragments bind to the keratin structure of the hair, replenishing lost proteins and restoring damaged fibers, leaving the hair stronger and silkier to the touch. Due to its mild nature, hydrolyzed rice protein is widely used in daily care products. It is found in shampoos, conditioners, hair masks, creams, lotions, serums, and various other skincare products. Its universal application and ability to improve hydration, resilience, and elasticity make it one of the key ingredients in formulations designed for sensitive skin and damaged hair. The product is preserved with benzyl alcohol, potassium sorbate, and sodium benzoate. The pH value ranges from 4.0 to 6.0. It is gluten-free.

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Benefits:

- Strengthens hair, reduces breakage, and retains moisture.
- Restores damaged hair and skin, providing additional elasticity.
- Increases hair density and volume.
- Improves hair texture, making it smooth and shiny.
- Helps skin retain moisture and prevents dryness.
- Protects the skin from damage and reduces visible signs of aging.
- Leaves the skin smooth, soft, and silky to the touch.
- Gentle and suitable for all skin types, including sensitive skin.
- Derived from plant sources, ideal for natural cosmetics.

Usage Instructions: Hydrolyzed rice protein is used in various cosmetic products due to its moisturizing and regenerating properties. In skincare formulations such as creams, lotions, and serums, it is typically added at concentrations of 1 to 5 percent during the cooling phase to preserve its effectiveness. In hair care products, including shampoos, conditioners, and masks, the recommended concentration ranges from 1 to 5 percent, depending on the desired results and product type. It can be included in the water phase or added after heating to ensure maximum efficacy. Its ability to improve elasticity, volume, and shine in hair or hydrate and protect the skin makes it ideal for daily use. Formulations containing hydrolyzed rice protein are mild and safe for sensitive skin. Stability and efficacy testing of formulations is recommended to ensure optimal results. Additionally, combining it with emollients or oils can enhance its performance, providing extra benefits for skin and hair.

GMO Status: Not GMO

Vegan: Does not contain animal-derived components

Storage and Transport: Hydrolyzed rice protein can be transported at temperatures up to 25 degrees Celsius, as it remains stable for short periods under such conditions. However, for long-term preservation of its bioactivity and integrity, storage in a refrigerator at temperatures between 4 and 8 degrees Celsius is recommended. Lower temperatures help prevent protein degradation, oxidation, or loss of efficacy, thereby extending its shelf life and maintaining its functional properties in formulations. Refrigeration also reduces the risk of microbial contamination or unwanted changes in texture

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and quality.

Raw Material Origin: EU



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