



Classic Distributing Company

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TECHNICAL BULLETIN

Hydrolyzed Keratin Protein

Hydrolyzed keratin protein is a cosmetic grade keratin protein carefully monitored during its manufacture to ensure the lowest possible odor and a low ash. Keratin is a highly specialized fibrous protein, which is found in hair, feathers, wool and nails. Keratin is distinct from other proteins in that it is rich in cysteine (a sulfur-containing amino acid), which is cross-linked covalently into disulfide bonds, giving keratin a unique strength and protective quality. It is particularly useful for treating hair that has been damaged due to permanent waving and bleaching. During these procedures, the cysteine bridges are broken resulting in a damaged and weakened hair cuticle. Adding to formulas not only protects the hair, but also increases the amount of cysteine available to the hair, minimizing damage and increasing tensile strength. As with other proteins, it has a "protective colloid effect" reducing chapping and irritancy caused by detergents and other harsh products. Due to its moisture binding capabilities, hydrolyzed keratin protein increases the moisture content of the hair, restoring luster, body, and increasing manageability. It is also an effective moisturizer for the skin. As with collagen proteins, it is substantive. Since keratin is a primary constituent of skin and hair, it makes good sense to use a protein of this type in hair and skin preparations.

USES Hair care products
Skin treatment products

INCI Name: Hydrolyzed Keratin

TYPICAL PROPERTIES

Appearance	Clear amber liquid
Odor	Characteristic
Color, Gardner	14 maximum
Nonvolatile matter	30.0% minimum (1 g / hr / 105°C)
pH, direct	5.5 – 7.0
Ash (800°C)	2.5% maximum
Nitrogen	4/0% minimum
Microbial content when packed	100 O.P.G. maximum No pathogens

Classic
Fine Ingredients

This information is believed to be reliable, but it is not to be construed as a warranty and no patent liability is assumed.