



Hydrolyzed Collagen PLUS™

A Revolutionary Conditioning Quat for hair and skin care.

INCI Name: Quaternium-79 Hydrolyzed Collagen
Usage Rate: 2-5%

Definition

Natural lipids from palm oil combine with natural (porcine derived) collagen, and are given a cationic charge for excellent substantivity.

Description

::What is Quaternium-79?::

Natural lipids in skin and hair, lost through harsh cleansing, are replaced by the revolutionary Quaternium-79, a cationic conditioning agent born of Virgin Palm Oil. Virgin Palm Oil contains a host of skin and hair benefits, including unrivalled antioxidant properties due to its unmatched content of **Tocotrienols, an antioxidant several times stronger than tocopherols**. Rice Bran Oil is often hailed for its tocotrienol content, but it runs a second to the legendary palm. Virgin Palm is also an excellent **source of carotenes**, which explains its rich color. The Quaternium-79 is cationic (positively charged) so that it is **more substantive** (drawn to) the anionic (negatively charged) skin and hair, and in fact...is drawn most to the areas that need it most. This feature allows for the formulation of "**adjustable conditioning**" products. In hair care, this quat also aids in static charge reduction, reducing fly-aways.

::Just What IS Collagen?::

About one quarter of all of the protein in your body is collagen. Collagen is a major structural protein, forming molecular cables that strengthen the tendons and vast, resilient sheets that support the skin and internal organs. Bones and teeth are made by adding mineral crystals to Collagen. Collagen provides structure to our bodies, protecting and supporting the softer tissues and connecting them with the skeleton. But, in spite of its critical function in the body, collagen is a relatively simple protein. As we age, our production of Collagen slows, especially if we don't get enough Vitamin C in our diets. Many cosmetic ingredients of today are used to enhance or stimulate

Collagen production, because it is a vital building block of youthful, healthy skin & hair!

General Data

Shelf Life: 18 months when properly stored.
Storage: Store in tightly sealed container at temps below 120F.

Specifications

Appearance: Bronze Viscous Liquid.
Polarity: Cationic.
Solubility: Water.
pH: 5

Usage

Incorporate 2-5% in the cool down phase. Proteins can denature at temperatures above 121F.

TECH TIP:: The Quaternium-79 range of proteins are generally NOT compatible with the Lactylate range of emulsifiers/surfactants.