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TECHNICAL DATA SHEET

Product Name: Caprylhydroxamic Acid CG

INCI Name: Caprylhydroxamic Acid, Caprylyl Glycol, Glycerin

CAS: 7377-03-9, 1117-86-8, 56-81-5

Synonyms: N-hydroxyoctanamide octanamide, N-hydroxy-octanohydroxamic acid taselin.

Chemical Class: Mixture (Caprylhydroxamic Acid, Caprylyl Glycol, Glycerin)

Functional Category: Preservative (natural bactericidal and bacteriostatic agent), antifungal, preservative

IUPAC Name: N-hydroxyoctanamide

Description: A 100% natural antimicrobial product. Provides broad-spectrum antimicrobial control. Represents an optimized combination of multifunctional ingredients of caprylhydroxamic acid and caprylyl glycol in glycerin, without the presence of parabens, phenoxyethanol, and other traditional preservatives. Caprylhydroxamic acid is obtained from coconut oil. As a preservative, it is approved by the US Whole Foods Market organization and is marked as Premier Ingredients. This blend has excellent antimicrobial and fungistatic activity even at neutral pH where many other antimicrobial substances fail. At room temperature, it is a clear liquid with a characteristic smell, soluble in water. The product may harden or precipitate after storage, especially at lower temperatures. In such cases, it needs to be heated. (see usage instructions!)

Benefits:

- ***Caprylhydroxamic Acid:*** A broad-spectrum natural preservative that helps prevent the growth of bacteria, yeasts, and molds in cosmetic formulations. It belongs to the group of hydroxamic acids. This acid is a derivative of caprylic acid, a fatty acid naturally found in coconut oil.
- ***Caprylyl Glycol:*** acts as a humectant, attracting and retaining moisture in the skin. It helps in hydration and softening of the skin, making it smooth and elastic. It has

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emollient properties that help form a protective barrier on the skin's surface. Reduces moisture loss and improves skin texture. Caprylyl Glycol can enhance the efficacy of other active ingredients in the formulation by improving their solubility and stability. Possesses antimicrobial properties and can act against certain microorganisms. As an antimicrobial agent, it works in several ways. It can inhibit enzymes necessary for vital metabolic processes of microorganisms. Prevents their ability to grow and reproduce. It can act on the cell membrane of microorganisms, disrupting their structure and function, leading to "leakage" and damage to intracellular processes. Caprylyl Glycol has the property of extracting water from microorganisms, leading to dehydration and a reduction in their vitality.

• ***Glycerin:*** is a powerful humectant that attracts water to the skin, helping it remain hydrated. Prevents skin dryness. It helps maintain the skin's moisture balance and improves its elasticity. Glycerin strengthens the skin's natural barrier, which is important for protection against external irritants and maintaining overall skin health. It has soothing properties that can help calm irritated skin. Glycerin is well-tolerated, including by sensitive skin, making it a widely used ingredient in skincare products.

Usage: The product is compatible with most cosmetic ingredients and can be used in emulsions and anhydrous systems. However, it may react with residual iron found in some types of clay (e.g., bentonite, silicates). It is added to the water phase at the end of the formulation. Typically used in concentrations between 0.8-1.5%. Avoid exposure to temperatures above >90°C/194°F for more than 2 hours. The product may harden during storage, especially at lower temperatures. In such cases, the product should be heated to 30-40°C max (95-104°F) and stirred until homogenized. Do not use it as a solid substance; it needs to be in liquid state and mixed before use. Store in a dry place, at room temperature. For external use only.

Application: Used for all types of skin and hair care products, including emulsions, anhydrous and surfactant systems, colored cosmetics.

Raw Material Source: Caprylhydroxamic acid is produced from hydroxamic acid obtained from coconut oil.

Animal Testing: The substance is not tested on animals

GMO: Non-GMO