

TECHNICAL DATA SHEET

Product Name: Cetearyl Alcohol and Ceteareth-20

INCI Name: Cetearyl Alcohol, Ceteareth-20

CAS: 67762-27-0, 68439-49-6

Chemical Classification: Mixture

Functional Category: O/W Emulsifier, Viscosity Modifier ~ Increases Viscosity, Stabilizer
~ Emulsion Stabilizer

IUPAC Name: Cetearyl Alcohol: (hexadecan-1-ol; octadecan-1-ol); Ceteareth-20: N/A

Description: Cetearyl alcohol and Ceteareth-20 represent a combination of plant-derived ingredients commonly used in skincare products. This mixture consists of a fatty alcohol that acts as an emulsifier and stabilizer, allowing the even mixing of oil and water. Additionally, it provides a creamy texture and extra hydration to the skin. The other component of this mixture is a nonionic surfactant and emulsifier that ensures product stability by preventing ingredient separation and enhancing the effectiveness of other ingredients by facilitating their distribution and absorption. Together, cetearyl alcohol and ceteareth-20 contribute to a smooth texture, improved absorption, and overall stability of formulations, making them ideal for use in cosmetic creams, lotions, hair conditioners, and depilatory creams. This combination is stable across a wide range of pH values and can withstand high levels of electrolytes, making it highly versatile and useful in various cosmetic formulations.

Benefits:

- **Emulsification and Stabilization:** The combination of cetearyl alcohol and ceteareth-20 allows the formation of stable emulsions, preventing the separation of oil and water in products like creams and lotions.
- **Hydration:** Cetearyl alcohol provides a creamy texture and additional hydration to the skin, making products rich and nourishing.
- **Texture and Consistency:** This mixture improves the texture and consistency of cosmetic products, making them smooth and pleasant to apply.
- **Stability in Various pH Levels:** The combination of cetearyl alcohol and

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ceteareth-20 is stable over a wide range of pH levels, allowing its use in different formulations.

- **Compatibility with Other Ingredients:** Ceteareth-20 is a nonionic surfactant that is highly compatible with most cosmetic and pharmaceutical ingredients, enhancing overall product effectiveness.

- **Biodegradability and Safety:** These ingredients are plant-based and biodegradable, making them safe for use and environmentally friendly.

- **Enhanced Absorption:** Ceteareth-20 aids in better distribution and absorption of active ingredients, increasing the efficacy of cosmetic products.

- **Versatility:** Cetearyl alcohol and ceteareth-20 can be used in a wide range of cosmetic products, including lotions, creams, hair coloring products, conditioners, and depilatory creams.

Usage: The emulsifier is added to the oil phase of the formulation, which is then heated to dissolve and homogenize all ingredients. After heating, the aqueous phase is slowly added to the oil phase with continuous mixing to create a stable emulsion. The emulsification process continues until the mixture cools to room temperature, achieving the desired product consistency. In cream and lotion formulations, the recommended concentration of cetearyl alcohol and ceteareth-20 typically ranges between 2% and 10%, depending on the desired texture and viscosity of the final product. For thicker products like balms and hair masks, the concentration may be higher, usually between 5% and 15%. For light lotions and serums, the concentration is usually between 1% and 5%.

Source Materials: Derived from natural plant oils and ethylene oxide.

Animal Testing: This substance has not been tested on animals.

GMO: Not a GMO.

Vegan: Contains no animal-derived components.

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