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TECHNICAL DATA SHEET

Product Name: Glyceryl Stearate, PEG-100 Stearate

INCI Name: Glyceryl Stearate, PEG-100 Stearate

CAS: 31566-31-1, 9004-99-3

Chemical Classification: Mixture, Fatty Alcohols

Functional Category: Surfactant ~ Emulsifier

Description: A self-emulsifying thickener. It is a mixture of two emulsifiers: glyceryl (mono) stearate (48-52%) and PEG-100 stearate (48-52%). It has thickening and solubilizing properties (stabilizes essential oils). The viscosity of emulsions can be increased by adding larger amounts of emulsifier. Stable emulsions are formed in the presence of high levels of electrolytes combined with other emulsifiers of any ionic type. Depending on the manufacturer, it appears in the form of small whitish pearls or in the form of white flakes, odorless. Pearls are dispersible in water and oil. Saponification number: 90-100. HLB value: 10.9 (provides O/W emulsions). pH Value: 5.5-7.5 (3% solution). It does not contain any of the allergens listed in Annex II or III of the Cosmetic Regulation (EC) 1223/2009.

Benefits:

• ***Glyceryl Stearate:*** Glyceryl Stearate helps maintain skin hydration by forming a barrier on the skin's surface. Acts as an emollient, making the skin smooth and soft to the touch. As an emulsifier, it aids in the mixing and stabilization of the water and oil blend in cosmetic products. By stabilizing emulsions, Glyceryl Stearate makes cosmetic products easier to apply, ensuring even distribution on the skin or hair. Glyceryl Stearate can improve the absorption of other ingredients in the cosmetic formulation, making them more effective. It is considered mild and non-irritating, making it suitable for use in products formulated for sensitive skin. Derived from natural sources, making it an attractive ingredient for natural and organic cosmetic formulations.

• ***PEG-100 Stearate:*** PEG-100 Stearate is a powerful emulsifier. It aids in the mixing of the aqueous and oily phases of the formulation, which is crucial for creating stable creams, lotions, and other emulsion-based products. Ensures a uniform texture and prevents ingredient separation. By reducing surface tension, PEG-100 stearate

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enhances the penetration of other beneficial ingredients contained in cosmetic formulations. Acts as a thickener, modifying the viscosity of cosmetic products. PEG-100 Stearate has a mild conditioning effect on the skin, helping the skin to be soft and smooth after application. PEG-100 Stearate is compatible with a wide range of cosmetic ingredients, allowing its use in various types of products. It helps stabilize cosmetic formulations, extending shelf life and maintaining the effectiveness of active ingredients over time. Considered a safe cosmetic ingredient, it has a low risk of skin irritation, making it suitable for products intended for sensitive skin, provided it is used within recommended concentrations. PEG-100 Stearate is a biodegradable ingredient, a desirable trait for consumers looking for eco-friendly cosmetic options.
When used together, glyceryl stearate and PEG-100 stearate act synergistically, making them ideal for use in a wide range of products. They improve the texture and stability of the final cosmetic product and contribute to its better spreadability. Usage: Glyceryl Stearate, PEG-100 Stearate needs to be dissolved beforehand and then dispersed in water or oil. Typical concentrations used range from 2% to 8%. For external use only.

Applications: Used in the manufacture of a wide range of cosmetic products, including: face creams, body lotions, shampoos, hair conditioners, lip balms, sunscreens, facial cleansing products, hand creams, body milks, etc.

Source Material: Soybean oil

Method of Obtaining: Glyceryl stearate is obtained by the reaction of glycerin with stearic acid, a fatty acid derived from soybean oil. PEG-100 stearate is obtained by the ethoxylation of stearic acid (polymerization of ethylene oxide)

Animal Testing: The substance has not been tested on animals. No animal testing has been conducted in accordance with Regulation (EC) No. 1223/2009, Chapter V; Article 18 of the European Parliament dated 30 November 2009 on cosmetic products.

GMO: Non-GMO

Vegan: Does not contain animal-derived components