Import and distribution for Serbia: Farmadria DOO
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TECHNICAL DATA SHEET

Product Name: Phenoxyethanol EHG

INCI Name: Phenoxyethanol (and) Ethylhexyl Glycerine

CAS: 122-99-6, 70445-33-9

Chemical Classification: Alcohol, Ether

Functional Category: Preservative, antimicrobial agent, antifungal agent

Structural Formula: Phenoxyethanol is an ethylene glycol monophenyl ether, while Ethylhexyl Glycerine is a glycerol ether (3-[(2-Ethylhexyl)oxy]-1,2-propanediol).

Description: Phenoxyethanol EHG is a multifunctional broad-spectrum preservative designed for cosmetic formulations. It is characterized by a synergy of active components with antimicrobial properties. The combination of natural and synthetic substances ensures long-term product stability. It effectively reduces the risk of bacterial, yeast, and mold growth. The formulation contains phenoxyethanol as the primary component. Synergy is enhanced by hexylene glycol and ethylhexyl glycerine, enabling efficacy at low concentrations. Phenoxyethanol EHG provides microbiological protection without irritation and is suitable even for sensitive skin. It is compatible with various formulations such as emulsions, gels, and serums. It remains stable within a pH range of 4 to 8. It allows the development of paraben-free products, in line with modern industry trends. It disperses easily and is compatible with numerous raw materials. Phenoxyethanol EHG is reliable and easy to use, making it ideal for modern cosmetic manufacturing. It is a light-colored liquid with a mild odor. Soluble in water, alcohol, and glycols.

Benefits:

- Effectively protects the formulation against bacteria, yeasts, and molds.
- Suitable for all skin types, including sensitive skin.
- Stable within a pH range of 4 to 8.
- Enables paraben-free formulations.
- Exhibits synergistic action at low concentrations.
- Compatible with various cosmetic raw materials.

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- Easily dispersible in different systems.
- Provides long-term microbiological protection of the product.

Method of Use: Phenoxyethanol EHG is used as a preservative in a wide range of cosmetic products, including creams, lotions, serums, gels, and emulsions. The recommended concentration typically ranges from 0.5% to 1.0%, depending on the type of product and formulation. In lighter formulations, such as serums and gels, lower concentrations are often sufficient for effective protection. For richer textures, such as heavy creams or high-oil emulsions, a higher concentration within the approved range may be required. It is added during the cooling phase of production to preserve its stability and efficacy. It performs best in a pH range between 4 and 8, allowing broad applicability across various cosmetic products. It is essential to thoroughly test the product under laboratory conditions to confirm the appropriate dosage and optimal synergy with other ingredients in the formulation.

Source of Raw Material: Phenol, Acetaldehyde

Animal Testing: Not tested on animals

GMO: Non-GMO

Vegan: Contains no animal-derived components