



NATURABOOST CE

Multifunctional Emollient - Antimicrobial action

Cosmetic products require preservation against microbial contamination to guarantee consumer's safety and to increase their shelf-life.

The use of multifunctional antimicrobial emollients is a well-known strategy for alternative preservation in the cosmetic industry.

NATURABOOST CE is based on 2 components:

Caprylyl Glycol which has a broad spectrum of antimicrobial activity covering bacteria (Gram + / Gram-), molds and yeasts.

As well as Ethylhexylglycerin which affects the integrity of the cell membrane of bacteria, thus increasing their destruction. It is particularly effective on bacteria responsible for odors.

The synergic effect between both compounds leads to an efficient preservation characterized by an excellent tolerance.

As multifunctional ingredient, it improves the spreadability and skin feel of a product while enhancing moisturizing activity of the finished products.

PROPERTIES

NATURABOOST CE is a blend of humectants that can also boost or aid the preservation of cosmetic formulations. It can be used as an alternative to preservatives that may be undesirable.

NATURABOOST CE is a multifunctional antimicrobial emollient that can be used in emulsion systems such as skin care creams and lotions or in surfactant-based products such as shower gels and shampoos.

Used in emulsions, **NATURABOOST CE** can be added to the oil or water phase of a cosmetic emulsion.

NATURABOOST CE is also soluble in oils and may be used in anhydrous formulas.

This multifunctional additive is easy to use. Its efficacy is not influenced by pH, featuring a broad efficacy against germs.

Due to its nature, **NATURABOOST CE** contributes to a smooth, dry sensory characteristic to topical skin care products while providing moisturization properties to the skin.

COSMETIC APPLICATIONS

Dosage : (0,5-2%)
Applications : Antimicrobial activity, emulsion stabilizer, humectant, moisturizer.

TECHNICAL DATA

Appearance: Clear liquid
INCI : Caprylyl Glycol (and) Ethylhexylglycerin

Langsrud, S., Steinhauer, K., Lütjhe, S., Weber, K., Goroncy-Bermes, P., & Holck, A. L. (2016). Ethylhexylglycerin Impairs Membrane Integrity and Enhances the Lethal Effect of Phenoxyethanol. *PLoS one*, 11(10), e0165228.

<https://doi.org/10.1371/journal.pone.0165228>



NATURABOOST H

Multifunctional Emollient - Antimicrobial action

Cosmetic products require preservation against microbial contamination to guarantee consumer's safety and to increase their shelf-life.

The use of multifunctional antimicrobial emollients is a well-known strategy for alternative preservation in the cosmetic industry.

NATURABOOST H is based on: 1,2-Hexanediol which has a broad spectrum of antimicrobial activity covering bacteria (Gram+/Gram-), moulds and with a particularly good action on Gram- and yeast.

1,2-Hexanediol may bind to and alter the cytoplasmic membrane of bacteria, killing them rapidly ⁽¹⁾.

PROPERTIES

NATURABOOST H is a multifunctional ingredient that can also boost or aid the preservation of cosmetic formulations. Depending on the formulation and the required pH, **NATURABOOST H** can be used in combination with organic acids or alone. It is the ideal choice for aqueous systems and higher pH levels.

Thanks to its amphiphilic structure, **NATURABOOST H** features some other interesting properties. It can be used as a wetting agent, solvent, co-solubilizer and moisturizer.

Used in emulsions, **NATURABOOST H** is preferentially added to the water phase before emulsification. Easy to use, its impact on emulsion stability and viscosity is very low.

NATURABOOST H is also suitable for surfactants-based products and aqueous or hydroalcoholic products.

Due to its nature, **NATURABOOST H** contributes to a smooth and pleasant feel to topical skin care products while providing moisturization properties to the skin.

COSMETIC APPLICATIONS

Dosage: 1-3%.
Applications: Antimicrobial activity, solvent, moisturizer.

TECHNICAL DATA

Appearance: clear liquid
INCI : 1,2-Hexanediol

(1) Yogiara, S.J. Hwang, S. Park, J.-K. Hwang and J.-G. Pan (2014) Food-grade antimicrobials potentiate the antibacterial activity of 1,2-hexanediol
doi:10.1111/lam.12398
<https://doi.org/10.1371/journal.pone.0165228>