Germall Plus

GERMALL® PLUS

Description

INCI: Diazolidinyl Urea (and) Iodopropynyl Butylcarbamate

Typical Properties

Appearance
Fine, free-flowing powder

Odor
Characteristically mild

Color
White

Nitrogen
19.0 - 21.0%

pH (1% aq. solution)
6.0 - 7.5

Loss on Drying
3.0% maximum

Iodopropynyl Butylcarbamate
0.75 - 1.25%

Germall
Plus, a white, free-flowing hygroscopic powder, is a unique and cost effective preservative system that provides a high level of antimicrobial activity in a wide variety of cosmetic and personal care formulations. This patented combination of Germall II (Diazolidinyl Urea) and IPBC has a dual mode of action that achieves a synergistic preservative effect. This system is highly effective in inhibiting the growth of Gram-positive and Gram-negative bacteria and troublesome house organisms, plus yeasts and molds, without the need for additional preservatives.

Germall Plus is approved for use in the Americas and the components of Germall Plus are individually listed by the EU: Diazolidinyl Urea at levels up to 0.5% without restrictions; IPBC permanently listed at levels up to 0.02% on a 100% basis without labeling requirements and up to 0.05% with labeling requirements. In the EU, IPBC should not be used in oral hygiene products, lip products, or in aerosolized sprays.

Applications

Fully compatible with cationic, anionic, or non-ionic surfactants and emulsifiers, as well as proteins.

Normal
use levels of 0.05-0.2% will preserve most systems (0.2% is recommended for systems containing a large amount of protein and/or complex ingredients).

Safe for both leave-on and rinse-off products.

Can be used in a wide pH range (3.0-8.0).

Water
soluble up to 1.0%; also soluble in the emulsified portion of a cream, conditioner, or lotion from room to elevated temperatures.

Add at 50°C or below during the cool down stage of processing.

Every
cosmetic formulation requires a specific preservative system to meet its individual needs. Therefore, every newly developed or modified product should be challenge tested to assure
preservative efficacy.

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