



Brochure STELLAGUARD PB81F

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Stellaguard PB81F is a diol derived from glycerol obtained by fermenting, Non-GMO plant sugar of renewable origin. A versatile ingredient for cosmetics, it offers improved performance compared with petroleum-based glycols. Its manufacturing process ensures that it is free of 1,4-dioxane.



PRESERVATIVE BOOSTER



HUMECTANT



EMOLLIENT

PROPERTIES

MULTIPURPOSE INGREDIENT

- **Natural preservative booster**
- **Improve** both skin and hair moisturisation properties
- **Increased** smoothness
- **Spread** enhancer
- **Skin penetration** enhancer
- **Silky** feel with reduced **tackiness**

PRODUCT TARGETS

- Baby care (children under 3)
- Shampoo, Shower gel (Rinse-off)
- Creams, lotions (Leave-on)
- Wet wipes
- Eye, Lip and Oral care

MICROBIOLOGICAL SPECIFICATION

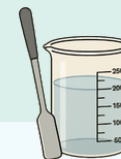
Total Viable Count (cfu/g)	
Bacteria	< 10
Yeasts and Moulds	< 10

COMPLIANCE

EUROPE, USA, CANADA, KOREA, JAPAN,
AUSTRALIA, CHINA, ASEAN, TAIWAN

TECHNICAL SPECIFICATIONS

Specifications	
Appearance	Clear Liquid
1,3-propanediol content (%)	≥ 99.7
Water content (%) (Karl Fischer)	≤ 0.5
Acidity (%)	≤ 0.02
Colour (Hazen)	≤ 10



FORMULATION GUIDELINES

KEY DATA

In use Concentrations :

- Leave-on : 1.0 - 5.0 %
- Rinse-off : 1.0 - 5.0 %

IDENTITY

- Aspect > Liquid
- Colour > Colorless / yellow
- Storage > Cool, well-ventilated place, above 5°C in closed packaging, protect from direct sunlight, sensitive to static discharges
- Smell > Faint, Characteristic

- It is miscible with most glycols and alcohols and is easily dissolved into water.
- Can also be used as a solvent for other active ingredients such as allantoin, antioxidants, botanicals or it can be used as a preservative booster to increase the efficacy of antimicrobial ingredients

RECOMMENDED PROCESS

- Commonly used in formulations between pH 4 and 8.
- Do not exceed a temperature that is too high (40-45 °C).

QUALITY

In compliance with current cosmetics regulations.

INCI

Propanediol

CAS

504-63-2

