

TECHNICAL DATA SHEET

Elix-CARE BG

INCI Butylene glycol

CAS 107-88-0



SPECIFICATIONS

Appearance	Colorless clear liquid
Color (HAZEN)	10 max.
Assay (wt %)	99.0 min.

GENERAL INFORMATION

Elix-CARE BG belongs to the glycol family and is a versatile cosmetic ingredient widely used in skincare and personal care formulations. It functions primarily as a humectant, helping to attract and retain moisture, while also improving product texture and spreadability. Butylene Glycol has good wetting properties and acts as an effective dispersant for essential oils and pigments, enhancing the stability and appearance of formulations that contain surfactants.

Elix-CARE BG is usually used in aqueous systems or emulsions to retain water to avoid the drying of the product. In anhydrous systems (deodorant sticks or lipsticks for example) it is used to increase plasticity and reduce the possibility of breakage.

Capable of retaining fragrances on the skin and preventing the loss of perfume in products, it is safe and non-irritating.

It can also be used as a solvent and antibacterial in cosmetic preparations. Its function is to promote the penetration of the active ingredients by helping to absorb the product more quickly and deeper into the dermis.

To do this, Elix-CARE BG dissolves the intercorneocyte cement, the glue that holds the dead surface cells together, giving the skin a healthy and compact appearance. Just as it helps the penetration of the active ingredients, Elix-CARE BG can, however, facilitate the absorption of harmful substances. For this reason it is necessary to carefully observe the ingredients associated with it in the formulation of a cosmetic product.

FORMULATION AND RECOMMENDATIONS

Elix-CARE BG is well known in cosmetics for its good moisturizing properties and for improving preservative systems. It inhibits gram-positive and gram-negative microorganisms as well as molds and yeasts. Elix-CARE BG is water soluble at room temperature and can be added directly in aqueous phase.

Recommended use concentration

3 – 30 %

Solubility

Soluble in water, n-Propanol, Glycerol, iso-Propanol, Ethanol Ester or Ketones

EFFICACY

In presence of preservatives Elix-CARE BG boosts the performance of the preservative system and stabilizes the formulations. Elix-CARE BG can significantly reduce the usual amount of preservatives needed in the formulation.

The pure product shows an antibacterial activity:

Bacteria	E. coli	A. niger	C. albicans	S. aureus	P. aeruginosa
MIC (%)	10	20	10	20	5

Minimum Inhibitory Concentration (MIC)

BENEFITS

- Derived from natural resources
- Moisturizes
- Good antimicrobial properties
- Fragrance enhancer
- Stabilizes volatile compounds
- Excellent solubilizing properties
- High purity

APPLICATIONS

Fragrances
Pharmaceuticals
Natural extracts

Cosmetics

- Skin care
- Sun care
- Toiletries
- Antiperspirant
- Hair care
- Oral care
- Nail care

SHELF LIFE

24 months under proper storage conditions

REGULATORY

ECOCERT / COSMOS	Approved
NATRUE	Approved
Natural Index (According to ISO 16128)	1