



## Elix-CARE BG

INCI Butylene glycol  
CAS 107-88-0

### SPECIFICATIONS

Aspect Colorless clear liquid  
Colorless liquid 20 max  
Assay (wt %) 99.0 min.

### REGULATORY

ECOCERT/COSMOS approved  
NATURE allowed  
Natural Index 1  
(according to ISO 16128)

### GENERAL INFORMATION

Belonging to the glycol family Elix-CARE BG is a humectant and possesses wetting properties. It is a dispersant of essential oils and pigments, acts as a clarifier in formulas containing surfactants and has a mild moisturizing action. 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.

### APPLICATIONS

**Fragrances**  
**Pharmaceuticals**  
**Natural extracts**

#### Cosmetics

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

### FORMULATION & 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.

#### Dosage level

#### Recommended concentration

3 -30%

#### Solubility

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

### BENEFITS

- derived from natural resources
- moisturizes
- good antimicrobial properties
- fragrance enhancer
- stabilizes volatile compounds
- excellent solubilizing properties
- high purity

### EFFICIACY

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 as reported below  
Minimum Inhibitory Concentrations (MIC)

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

### SHELF LIFE

24 months under proper storage conditions

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