

Elixi-CARE PDO

SPECIFICATIONS

| Aspect | Colorless liquid |
|------------------|------------------|
| Colorless liquid | 10 max |
| Water content | 0,1% max |

REGULATORY

| ECOCERT/COSMOS | approved |
|--------------------------|------------|
| RSPO | Registered |
| Natural Index |] |
| (according to ISO 16128) | |

GENERAL INFORMATION

Elixi-CARE PDO is a high purity ingredient produced from 100% renewable,

GMO-free sources. It can be used as a solvent, emollient, humectant and/or antimicrobial agent as well as a carrier for actives in cosmetics and personal care products.

FORMULATION & RECOMMENDATIONS

Elixi-CARE PDO is made from natural Glycerol and is an excellent natural alternative to petroleum-based Glycols such as Propylene Glycol, Butylene Glycol or Methyl-Propanediol. Pure Elixi-CARE PDO has a pH near 7. Even at a concentration higher than 70% no skin irritation or sensitization occurs.

Compared to standard Glycols,

Elixi-CARE PDO gives better performance both in skin moisturization (no tackiness and filming, soft feeling) and hair moisturization (higher water absorption, increased smoothness and softness).

Elixi-CARE PDO has a synergistic effect in combination with Glycerin, giving a long-lasting moisturizing effect.

Actives such as Allantoin, Glycolic Acid and various other antioxidants show a high solubility in Elixi-CARE PDO and better performance compared to water-based solutions.

Its polar character mediated by the two hydroxy substituents causes the unlimited solubility in water.

Dosage level Recommended concentration 2-10% (as a booster)

Solubility completely soluble in water at all proportions We suggest adding the recommended concentration at the water phase of your formulation.

BENEFITS

- Produced from 100% renewable sources
- GMO-free
- Excellent booster for preservative system
- Improve moisturizing efficiency
- Non skin sensitizing or irritating
- Excellent sensory profile.

APPLICATIONS

Fragrances Pharmaceuticals Natural extracts

Cosmetics

- Skin Care Hair Care
 - Toiletries Baby care

• Sun Care

Oral careMake up

SHELF LIFE

24 months under proper storage conditions

EFFICACY

Elixi-CARE PDO is not considered to be a preservative itself but can act as a preservative booster in many preservative systems. The pure product shows antibacterial activity as shown below

| Bacteria | Conc. (CFU/ml) | Antibacterial rate (%) | Evaluation |
|--------------------------|-----------------------|---------------------------|-------------|
| Staphylococcus aureus | 6.9 x 10 ⁵ | 94.2 | Significant |
| Escherichia coli | 7.8 x 10 ⁵ | >99.9 | Significant |

Hygienic standard for disposable sanitary product GB 15979-2002

Elixi-CARE PDO is an efficient booster, especially in Phenoxyethanol and Benzyl Alcohol based formulations against bacteria (both gram positive and negative) and yeasts. The use of Elixi-CARE PDO can significantly reduce the amount of preservatives required in the formulation.



cosmetics.connectchemicals.com | cosmetics@connectchemicals.com