

**Optiphen** is a unique **paraben-free** and **formaldehyde-free** liquid preservative system which consists of Phenoxyethanol in an emollient base of Caprylyl Glycol. The combination of these ingredients provides optimized protection against microbial growth while imparting exceptional feel to the finished product. Optiphen can be used in both **aqueous and anhydrous** applications.

**Optiphen** is approved globally.

### **Applications**

- Can be used in a wide variety of personal care products including **aqueous and anhydrous** systems and emulsions.
- Can easily be added directly to the formulation during pre- **or post-emulsification** at or below 60°C (**140°F**) .
- No pH restrictions; it is compatible with most raw materials.

**Recommended use level:** 0.75-1.5% of total formulation weight.

**Directions:** Add to formulation at temps of 60°C (**140°F**) or lower.

**INCI:** Phenoxyethanol (and) Caprylyl Glycol.

**PROS & CONS:** The levels of Phenoxyethanol will break any Sepigel 305 emulsion. This includes any emulsifier using the **INCI of Polyacrylamide and C13-14 Isoparaffin and Laureth-7**, regardless of the name the reseller gives the product.

Up to 2% of the population will have sensitivity to phenoxyethanol, exhibited by a warm feeling or redness in delicate tissue areas such as the face, eyes, neck, and on the thinner skin of babies and children.

Optiphen is not very water soluble. If using in a room or body spray you will need to solubilize Optiphen with polysorbate 20 before adding to your room spray solution. Properly solubilized in emulsions or with polysorbate 20 in mostly water based products, Optiphen remains an effective anti-microbial.

Optiphen is paraben free however, and a valuable tool in our cosmetic preservative toolboxes. The addition of Caprylyl Glycol in this preservative formula enhances the effectiveness of the Phenoxyethanol.