

Optiphen Plus is an ISP patent-pending liquid preservative system featuring an innovative blend of Phenoxyethanol and Sorbic Acid in an emollient base of Caprylyl Glycol. The combination of ingredients in **Optiphen Plus** offers effective broad spectrum protection against Gram-positive and Gram-negative bacteria, yeast, and mold while imparting emolliency to finished formulations. **Optiphen Plus can be used in both aqueous and anhydrous applications.**

Optiphen Plus is approved worldwide.

Applications

- Can be used in a wide variety of personal care products including emulsions, **aqueous and anhydrous systems**, and wet wipes.
- Performs best in formulations below a pH of 6.0, but depending on the formulation, has also proven effective at pH levels above 6.0.
- Can be added directly to the formulation during pre- or post-emulsification at or below 60°C (**140°F**).
- Compatible with most raw materials.

Recommended use level: is 0.75-1.50%. of total formulation weight.

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

INCI: Phenoxyethanol (and) Caprylyl Glycol (and) Sorbic Acid.

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.

Additionally, the inclusion of Sorbic Acid in this preservative combination will prevent Optiphen Plus being used in any Carbomer based formulation. The acid will change the pH of your Carbomer based product and break the gel matrix.

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

Optima Plus is paraben free however, and a valuable tool in our cosmetic preservative toolboxes.