

OPTIPHEN PLUS

INTRODUCTION

Optiphen Plus is paraben- and formaldehyde-free. It is a liquid preservative formulation featuring an innovative blend of phenoxyethanol, sorbic acid and an emollient base that is ideal for personal care products. The combination of all three ingredients offers effective protection against bacteria, yeast and mould growth while imparting emolliency.

This preservative is effective as a stand-alone system and functions well with other preservatives. Optiphen Plus has an extensive range of applications in aqueous and emulsion-type personal care formulations and is compatible with most raw materials in the personal care industry.

BENEFITS

Globally approved
Highly effective broad spectrum antimicrobial
Effective at pH levels below 6.0
Non-formaldehyde donor
Paraben-free
Non-isothiazolinone
Imparts emolliency
Compatible with most raw materials
Excellent safety and toxicological profile

CHEMISTRY

The ingredient phenoxyethanol, is an aromatic ether alcohol commonly used for preservation of personal care products. Sorbic acid is often used in lower pH personal care formulations and functions as a complementary preservative. Lastly, 1,2 octanediol - INCI name: caprylyl glycol - is the emollient base, giving the product exceptional feel.

TYPICAL PROPERTIES

Odour Characteristic Appearance Liquid

Colour Clear to pale straw Specific Gravity 1.0140 - 1.0240

SOLUBILITY (g/100g solvent at 25°C)

Water 1.0

Ethanol > 100 miscible
Isopropanol > 100 miscible
Ethylene Glycol > 100 miscible
Propylene Glycol > 100 miscible
Butylene Glycol > 100 miscible
Glycerine > 100 miscible

Mineral Oil 0.6

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RECOMMENDED APPLICATION

Sunscreen Creams and Lotions

Daily Wear Sun Protection Products

Moisturisers

Hand and Body Creams and Lotions

Night Creams

Wipes

Foundations

Concealers

Blush

Styling Gels

Shampoo

FORMULATION GUIDE

Optiphen Plus can be easily added to the formulation during pre- or post-emulsification at or below 80°C.

RECOMMENDED USE LEVELS

0.75% - 1.5%

SAFETY PROFILE

Optiphen Plus has an excellent safety and toxilogical profile and is safe to use in a wide range of personal care applications.

CAS Numbers:

Phenoxyethanol 122-99-6 Caprylyl Glycol 1117-86-8 Sorbic Acid 110-44-1