

Kem Plus

INCI name: *Phenoxyethanol,
Iodopropynyl Butylcarbamate*

Appearance: Clear pale yellow liquid

Description

Kem Plus is a Formaldehyde-free and Parabens-free preservative blend very effective against yeasts and molds, designed for the antifungal protection of cosmetic formulations.

Antimicrobial activity

Kem Plus is a preservative system highly effective against yeasts and molds at very low levels.

Properties and stability

Kem Plus is very soluble in alcohols, glycols and polar oils, slightly soluble in water and mineral oil. It is stable and active in the pH range 4.5-8.5. Should be protected from direct sunlight.

Applications

Kem Plus is particularly indicated for the preservation of personal care products susceptible to fungal contamination. It is an ideal system for the preservation of emulsions, oil-based formulations and wet wipes. It is easily incorporated in surfactants-based products and may be dissolved at 0.1% in aqueous formulations and gels.

Typical applications include:

- *Hair care:* shampoos, lotions, conditioners, gels, mousses.
- *Body and face care:* tonics, gels, lotions, creams, oils, wipes.
- *Make-up:* foundations, wipes.
- *Sun products:* sunscreens, suntans, aftersuns.
- *Bath products:* shower gels, bubble baths, handcleaners, intimate, wipes.
- *Raw materials:* surfactants, vegetal extracts.

Use levels

Kem Plus may be used at 0.05-0.4% in association with antibacterials in formulations with high oils content. It can also be used at 0.02-0.1% both in aqueous and oil-based formulations as auxiliary system to improve the fungicidal activity of an existing preservation.

Regulatory approval

USA: allowed in rinse-off and leave-on products not to be aerosolized.

EU: allowed in bath products, shower gels and shampoos without restrictions; in other rinse-off products can't be used for children under 3 years (label required). Allowed in leave-on products not for use on large part of body and not for children under 3 years (label required). Not to be used for oral-care and lip-care.

Japan: allowed in rinse-off and leave-on products not to be aerosolized.

Technical support

The microbiological laboratory supports customers during the preservative selection and helps to solve preservation issue in any cosmetic application. The optimal level of preservative to be used is suggested on the basis of specific preservative efficacy testing (Challenge test).

For further information, documentation and sample please contact us.