

Kemaben 4

INCI name: *Phenoxyethanol,
Methylparaben,
Ethylparaben,
Propylparaben,
Butylparaben.*

Appearance: Clear colourless liquid

Description

Kemaben 4 is a broad spectrum preservative blend based on a balanced content of parabens dissolved in Phenoxyethanol. This system has proven over many years of large consumers use to be safe and effective in a wide range of personal care products.

Kemaben 4 is a formaldehyde-free system worldwide allowed in any cosmetic application and approved for topical pharmaceutical products.

Antimicrobial activity

Kemaben 4 is a preservative system effective against Gram-negative and Gram-positive bacteria, very effective against yeasts and molds also at low levels.

Properties and stability

Kemaben 4 is soluble in alcohols, glycols and polar oils, slightly soluble in water. It is stable and active in the pH range 3-8. May tolerate working temperature upto 80°C.

Applications

Kemaben 4 can be used in an extended range of cosmetic products, it is among the most used systems for the preservation of emulsions, oils and wet wipes. Kemaben 4 is also useful for dermo-pharmaceutical preparations. Typical applications include:

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

Use levels

Kemaben 4 is typically used 0.2-1.0%. No further antimicrobial compounds are required for the product preservation.

Regulatory approval

USA, EU and Japan: allowed in all categories of cosmetics.

Technical support

Akema laboratory supports customers in the preservation of any new product and contributes to improve the protection of existing formulations. The optimal level of preservatives to be used is suggested on the basis of specific preservative efficacy testing (Challenge test).

For further information, documentation and sample please contact us.