

Kemaben 5

INCI name: *Phenoxyethanol,
Methylparaben,
Ethylparaben,
Propylparaben,
Propylene Glycol.*

Appearance: Clear colourless liquid

Description

Kemaben 5 is a liquid preservative system with broad spectrum activity based on a balanced blend of well established cosmetic preservatives. The combination of ingredients of Kemaben 5 is optimized to achieve the higher antimicrobial efficacy at the lowest level of preservatives. The solubility properties of this blend allow its use in a wide range of aqueous and oil-based cosmetic formulations.

Kemaben 5 is a formaldehyde-free system worldwide allowed in any cosmetic application and approved for topical pharmaceuticals.

Antimicrobial activity

Kemaben 5 is a preservative system very effective against Gram-negative bacteria, Gram-positive bacteria, yeasts and molds.

Properties and stability

Kemaben 5 shows higher water solubility than other phenoxyethanol/parabens blends. It is soluble in alcohols, glycols and polar oils.

It is stable and active in the pH range 3-8. May tolerate working temperature upto 80°C.

Applications

Kemaben 5, due to its solubility both in water and oils, can be easily employed in an extremely large number of cosmetic products. It is also approved for topical pharmaceutical preparations.

Typical applications include:

- *Hair care:* shampoos, lotions, conditioners, gels, mousses.
- *Body and face care:* aqueous solutions, 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 5 is typically used 0.5-1.5%. 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.