



Kemaben 5

INCI name: *Phenoxyethanol*
Propylene Glycol
Methylparaben
Ethylparaben
Propylparaben

Appearance: Clear colourless liquid

Description

Kemaben 5 is a preservative system with broad spectrum activity based on a well-balanced blend of 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.

Antimicrobial activity

Kemaben 5 is a preservative system very effective against Gram-negative bacteria, Gram-positive bacteria, yeasts & moulds. It combines the antibacterial properties of phenoxyethanol with the antifungal activity of three parabens and the boosting effect of propylene glycol.

Properties & stability

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

Stable and active in the pH range 3-8, it does not modify the colour, the odour & viscosity of finished cosmetics. 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. Typical applications include:

- *Hair care*: shampoos, lotions, conditioners, gels, mousses.
- *Body& 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.
- *Raw materials*: surfactants.

Use levels

Kemaben 5 can be used at 0.5-1.5%. No further antimicrobial compounds are required for the product preservation.

Regulatory approval

The components of Kemaben 5 have been widely used cosmetic preservatives for decades, all were extensively tested and approved by FDA & EU scientific committees.

Kemaben 5 is approved for cosmetics in *EU, China & ASEAN*, but in these countries it cannot be used in leave-on cosmetics designed for application on the diaper area of children under 3 years.

It is allowed in *USA, Latin America & Japan* without restrictions.



Technical support

Our microbiological laboratory can support customers in the preservative choice; the optimal preservation is suggested on the basis of challenge tests conducted on specific cosmetics.

For further information, documentation and samples please contact us.

Highlights

- ✓ Complete spectrum & highly effective preservation.
- ✓ Based on long used cosmetic preservatives.
- ✓ Suitable for use in wide range of cosmetics.
- ✓ Higher solubility in water than other parabens blend.
- ✓ Not sensitive to pH and effective in wide pH range 3-8.
- ✓ Do not change odour, colour & viscosity of finished cosmetics.
- ✓ Globally approved in rinse-off, leave-on & wet wipes.
- ✓ Reduced use levels & competitive costs.