



Kemaben 3

INCI name: *Phenoxyethanol,
DMDM Hydantoin,
Methylparaben,
Water
Propylparaben,*

Appearance: Clear colourless liquid

Description

Kemaben 3 is a liquid cosmetic preservative extremely powerful and with complete spectrum of antimicrobial activity. It is a synergistic combination of some of the most effective and longest used cosmetic preservatives. Kemaben 3 is an easy to use system that can be employed in a wide range of cosmetics. It is not pH sensitive and does not modify the appearance of formulations. It is globally approved in rinse-off cosmetics.

Antimicrobial activity

Kemaben 3 is a preservative system highly effective against Gram-negative bacteria, Gram-positive bacteria, yeasts & moulds.

Properties and stability

Kemaben 3 is very soluble in alcohol and propylene glycol, soluble in water and polar oils, slightly soluble in mineral oil.

It does not change colour, odour and viscosity of finished cosmetics. It is not pH dependent and fully active in the pH range 3-9. Stable to discoloration over time and storage to low temperature.

Applications

For its optimal solubility both in water and oil phase at the use concentrations, Kemaben 3 can be easily incorporated into a wide variety of cosmetic products. It is an ideal system for the preservation of aqueous formulations and emulsions. Typical applications include:

- *Hair care:* shampoos, conditioners, gels, mousses.
- *Body & face care:* toners, gels, lotions, creams, wipes.
- *Make-up:* foundations, eyeliners, mascaras, powders, wipes.
- *Sun products:* sunscreens, suntans, aftersuns.
- *Bath products:* shower gels, bubble baths, hand cleaners, intimate, wipes.
- *Baby care:* shampoos, bath products, gels.
- *Raw materials:* surfactants.

Use levels

Kemaben 3 is typically used at 0.2-0.8%. No additional-preservatives are required for the product preservation, also in the most contaminable cosmetics.



Regulatory approval

The components of Kemaben 3 have been widely used cosmetic preservatives for decades, all were extensively tested and approved by FDA & EU scientific committees. Kemaben 3 is approved for cosmetics in *EU, China & ASEAN* up to 2.0%, in these countries it is not permitted in leave-on cosmetics designed for the diaper area of children under 3 years. It is allowed in *USA & Latin America* up to 2.0% without limitations. In *Japan* it is permitted up to 1.0% in rinse-off products with warning label.

Technical support

Challenge testing service can be offered to customers; the optimal preservation is suggested on the basis of tests conducted on their formulations.

For further information, documentation and samples please contact us.

Highlights

- ✓ Complete spectrum & powerful preservation.
- ✓ Based on longest used preservatives.
- ✓ Highest protection of wide range of cosmetics.
- ✓ Soluble in water and polar oils at the use levels.
- ✓ Not pH sensitive and effective in pH range 3-9.
- ✓ Do not change odour, colour & viscosity of finished cosmetics.
- ✓ Reduced use levels & highly competitive costs.