



## Kemaben 4

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

**Appearance:** Clear colourless liquid

### Description

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Kemaben 4 is a broad spectrum preservative based on a well balanced content of parabens dissolved in phenoxyethanol. This system is one of the most widely used preservative blend that has proven over many years of large consumers use to be safe and effective in a wide range of personal care products. It is globally approved in any rinse.off , leave-on & wet wipes.

### Antimicrobial activity

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

### Properties & stability

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Kemaben 4 is soluble in alcohols, glycols and polar oils, slightly soluble in water. 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

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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 & wet wipes. Typical applications include:

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

### Use levels

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

### Regulatory approval

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The components of Kemaben 4 have been widely used cosmetic preservatives for decades, all were extensively tested and approved by FDA & EU scientific committees.

Kemaben 4 is approved for cosmetics in *EU, China & ASEAN* up to 1.39%. 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 & Japan* up to 1.39% without restrictions.



### **Technical support**

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Our microbiological laboratory can offer challenge testing service; the optimal preservation is suggested on the basis of tests conducted on customer's formulations.

For further information, documentation and samples please contact us.

### **Highlights**

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- ✓ Complete spectrum & highly effective preservation.
- ✓ Based on long used cosmetic preservatives.
- ✓ Very popular system largely used in wide range of cosmetics.
- ✓ 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.