



Kemaben ME

INCI name: *Phenoxyethanol*
Methylparaben
Ethylparaben

Appearance: Clear colourless & odourless liquid

Description

Kemaben ME is a liquid preservative with broad spectrum efficacy comprising the short-chain methylparaben & ethylparaben in phenoxyethanol. Optimized combination with performance equivalent to the standard systems containing longer parabens for the protection of most types of cosmetics. Kemaben ME is a safe and effective blend, offering the advantages of globally accepted cosmetic preservatives of long use history with unsurpassed chemical stability & compatibility.

Antimicrobial activity

Kemaben ME is a balanced combination of the fungicidal agents methylparaben & ethylparaben dissolved in phenoxyethanol as bactericidal. It provides effective protection against Gram-negative bacteria, Gram-positive bacteria, yeasts & moulds.

Properties and stability

Kemaben ME is very soluble in alcohols and glycols, soluble in glycerine and polar oils, slightly soluble in water. Stable and active in the pH range 3-8, it is odourless & colourless and may tolerate working temperature up to 80°C.

Applications

Kemaben ME can be incorporated into the aqueous or lipid phase during manufacture. Its limited solubility in water can be improved by gentle heating to 50°C. Alternatively, for aqueous systems that cannot be heated, a concentrate in a suitable solvent such as propylene glycol can be prepared and stirred into water. Can be employed in a wide range of cosmetics for rinse-off, leave-on & wet wipes.

Typical applications include:

- *Hair care*: shampoos, lotions, conditioners, gels, mousses.
- *Body & face care*: serums, tonics, gels, lotions, creams, oils, wipes.
- *Make-up*: foundations, lipsticks, 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, lotions, creams, oils, powders, wipes.
- *Raw materials*: surfactants.

Use levels

Kemaben ME can be use at levels of 0.3-1.0%. No further antimicrobial compounds are needed. Typically surfactant-based products may require 0.3-0.8%, emulsions 0.6-1.0%, non ionic emulsions and difficult to preserve systems may need 0.8-1.2%.



Regulatory approval

All the components of Kemaben ME are largely used and tested cosmetic preservatives, especially Methylparaben and Ethylparaben have been recently reviewed by the SCCP & FDA and recognized as absolutely safe for cosmetics. Kemaben ME has an excellent safety profile and is worldwide permitted up to 1.3% in all personal care categories without restrictions.

Technical support

Our microbiological laboratory offers complete microbiological support in all product applications. The optimal use level of preservatives in cosmetics is suggested on the basis of microbial challenge tests. For further information, documentation and samples please contact us or our local agent.

Highlights

- ✓ Complete spectrum & highly effective preservation.
- ✓ Based on long used preservatives.
- ✓ Contains the shortest chain parabens.
- ✓ Easy to use system compatible with most cosmetics.
- ✓ Not sensitive to pH and effective in wide pH range 3-8.
- ✓ Colourless & odourless, cause no changes in finished cosmetics.
- ✓ Reduced use levels & budget-friendly costs.