



Kemaben 2E

INCI name: *Propylene Glycol*
Diazolidinyl urea
Methylparaben
Propylparaben

Appearance: Clear colourless to pale yellow liquid

Description

Kemaben 2E is a preservative blend with broad spectrum activity against bacteria and fungi. Due to its increased content of parabens, this is an ideal system for the preservation of complex emulsions & cosmetic formulations particularly susceptible to fungal contaminations.

Antimicrobial activity

Kemaben 2E is a preservative system with a wide spectrum antimicrobial activity; it is effective against Gram+ and Gram- bacteria and provides an enhanced activity against yeasts & moulds.

Properties & stability

Kemaben 2E is soluble in glycols, slightly soluble in water, not soluble in oils and apolar solvents. It is active in the pH range 3-8 and does not modify the colour, odour & viscosity of finished cosmetics.

Applications

Kemaben 2E is particularly suggested for the preservation of emulsions and complex formulations that show a high risk of contamination from yeasts and moulds. It is compatible with anionic, cationic & non ionic cosmetic ingredients Typical applications include:

- *Hair care*: shampoos, lotions, conditioners, mousses.
- *Body & face care*: lotions, creams, wipes.
- *Make up*: foundations, mascaras.
- *Sun products*: sunscreens, suntans, aftersuns.
- *Raw materials*: surfactants.

Use levels

Kemaben 2E is typically used at 0.3-1%. No further antimicrobial compounds are required for the product preservation.

Regulatory approval

The components of Kemaben 2E have been widely used cosmetic preservatives for decades, all were extensively tested and approved by FDA & EU scientific committees.

Kemaben 2E is approved for cosmetics in *EU, China & ASEAN* up to 1.8%; 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 2.5% without limitations. It is not permitted in *Japan*.



Technical support

Akema laboratory supports customers in the preservation of new cosmetics and contributes to improve the protection of existing formulations. The optimal preservation is suggested on the basis of specific challenge test.

For further information, documentation and samples please contact us.

Highlights

- ✓ Broad spectrum & powerful preservation.
- ✓ For emulsions & cosmetics with high risk of fungal contamination.
- ✓ Longest history of safe cosmetic use.
- ✓ Based on well established preservatives.
- ✓ Largely used in wide range of cosmetics.
- ✓ Not pH sensitive and effective in pH range 3-8.
- ✓ Do not change odour, colour & viscosity of finished cosmetics.
- ✓ Low use levels & competitive costs.