

## Kemaben 2

**INCI name:** Diazolidinyl urea,  
Methylparaben,  
Propylparaben,  
Propylene Glycol

**Appearance:** Clear colourless to pale yellow liquid

### Overview

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Kemaben 2 is a synergistic combination of well established cosmetic preservatives with a broad spectrum antimicrobial activity, useful for the protection of an extensive number of personal care products.

The synergism between components of Kemaben 2 permits to employ lower levels of preservatives improving the safety in use of the final product.

This system enjoys a great history of consumers use; it was developed in 1982 (was the first in the series of preservative blends for cosmetics), over the years has become a reference system in cosmetic preservation.

### Antimicrobial activity

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Kemaben 2 is a preservative system highly effective against Gram-negative bacteria, Gram-positive bacteria, yeasts and molds.

### Properties and stability

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Kemaben 2 is soluble in water and polar solvents, not soluble in oils and apolar solvents.

It is stable and active in the pH range 3.5-8.

Compatible with anionic, cationic and non ionic cosmetic ingredients.

### Applications

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Kemaben 2 can be easily incorporated into a broad number 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 and 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, handcleaners, intimate, wipes.
- *Baby care:* shampoos, bath products, gels, lotions, creams, powders, wipes.
- *Raw materials:* surfactants, vegetal extracts.

### Use levels

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Kemaben 2 is typically used at 0.5-1%. No co-preservatives are required for the product preservation, also in more contaminable systems.

### Regulatory approval

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*USA and EU:* allowed upto 1.66% without limitations.

*Japan:* not allowed.

### Technical support

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Akema laboratory supports customers in the preservation of any product at development stage and contributes to improve the protection of existing formulations. The optimal level of preservatives to be used is suggested on the basis of specific preservative efficacy testing (Challenge test).

For further information, documentation and sample please contact us.