



Kemaben 2

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

Appearance: Clear colourless to pale yellow liquid

Overview

Kemaben 2 is a synergistic combination of established cosmetic preservatives with powerful antimicrobial action, largely used for the protection of an extensive number of personal care products. This is the most popular preservative system with a great history of consumers use. It was the first preservatives blend developed for cosmetics that has become a standard in cosmetic preservation. Kemaben 2 is an unsurpassed preservative with the highest efficacy against bacteria & fungi, very easy to work that causes no changes on the appearance of cosmetics, all at reduced use levels and low cost.

Antimicrobial activity

Kemaben 2 is a broad spectrum preservative system highly effective against Gram-negative bacteria, Gram-positive bacteria, yeasts & moulds. The synergism between the components of Kemaben 2 allows formulators to employ lower levels of preservatives improving the safety in use of final cosmetics.

Properties & stability

Kemaben 2 is very soluble in glycerine, soluble in water to approx. 1%, not soluble in alcohol, oils and apolar solvents. Stable and active in the pH range 3-8, it does not modify the colour odour & viscosity of finished cosmetics.

Applications

Kemaben 2 can be easily incorporated into a broad range of cosmetic products; it is an ideal system for the preservation of aqueous formulations & emulsions. It is compatible with anionic, cationic & non ionic cosmetic ingredients. 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, handcleaners, intimate, wipes.
- *Baby care:* shampoos, bath products, gels.
- *Raw materials:* surfactants.

Use levels

Kemaben 2 is typically used at 0.5-1%. No additional preservatives are required to achieve complete preservation, also in the most contaminable cosmetics.

Regulatory approval

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

Kemaben 2 is approved for cosmetics in *EU, China & ASEAN* up to 1.66%; 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 1.66% without limitations. It is not permitted in *Japan*.



Technical support

Our microbiological laboratory can support customers in the preservative choice; the optimal preservation is suggested on the basis of challenge tests conducted on specific cosmetics.
For further information, documentation and samples please contact us.

Highlights

- ✓ Complete spectrum & powerful preservation.
- ✓ 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.
- ✓ Soluble in water at the use levels.
- ✓ Do not change odour, colour & viscosity of finished cosmetics.
- ✓ Low use levels & highly competitive costs.