

Kem BB

INCI composition: Benzyl Alcohol
Water
Sodium Benzoate

Appearance: Clear colourless liquid

Description

Kem BB is a broad spectrum preservative based on nature-identical and globally accepted ingredients. This system represents a gentle on the skin and effective alternative for the preservation of mild & natural cosmetics with slight acidic pH. *Kem BB* is a cost effective solution that offers several technical & formulating advantages such as high water solubility, absence of impact on colour, odour & viscosity. These properties make it a versatile system easily usable in wide variety of cosmetics.

Antimicrobial activity

Kem BB is an optimised combination of the antibacterial effect of Benzyl alcohol with the antifungal Sodium benzoate. It has well-balanced broad spectrum effect against Gram-negative bacteria, Gram-positive bacteria, yeasts & moulds. For the presence of the salt of organic acid Sodium benzoate, the lower the pH the higher the antimicrobial activity, so *Kem BB* shows the best efficacy in the acid pH range 3-5.5.

Properties & stability

Kem BB is very soluble in glycerin and glycols, soluble in water and alcohols. Colourless and with mild odour, it is stable to discoloration and low storage temperature, may tolerate working temperature up to 80°C. It should be used in cosmetics with pH from 3 to 5.5.

Applications

Kem BB can be used to protect a variety of cosmetic products for rinse-off & leave-on, particularly suitable for natural certified & delicate cosmetics. Typical personal care applications include:

- *Hair care:* gels, shampoos, lotions, conditioners, mousses, colourants.
- *Face & eye care:* serums, tonics, gels, lotions, creams, cleansers, masks.
- *Make-up:* foundations, powders, eyeshadows, eyeliners, mascaras, lipsticks, lip glosses.
- *Shaving products:* shaving creams, aftershave, lotions, creams.
- *Body, foot & hand care:* gels, lotions, creams, exfoliants, oils.
- *Sun care:* sunscreens, suntans, aftersuns, gels, milks, creams, oils, sprays, roll ons.
- *Bath products:* shower gels, bubble baths, hand-cleaners, intimate, oils, powders.
- *Baby care:* shampoos, bath products, lotions, creams, oils, powders, wipes.
- *Oral care:* mouthwashes, gels, creams, toothpastes.
- *Wet wipes:* baby wipes, hand wipes, face wipes, body wipes, feminine wipes, sun protection wipes.
- *Raw materials:* surfactants, vegetal extracts.

Use levels

Kem BB can be used at concentrations of 0.8-1.2% with no additional preservatives. This use level can be increased to 1.5% in more complex & difficult to preserve formulations.

Regulatory approval

The components of *Kem BB* were extensively tested and used in cosmetics, pharmaceuticals and foods. The global regulatory acceptance allows formulators to create cosmetics for the global distribution and for the natural market.

Kem BB is approved in *EU, USA, Latin America, Japan, China & ASEAN* in all categories of cosmetics without restrictions. It is permitted in natural & organic cosmetics certified by the major certification agencies (COSMOS, NaTrue, Ecocert, Soil Association, BDIH, ICEA).

Technical support

Our microbiological laboratory may provide challenge testing service to support the preservative choice. 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

- ✓ Gentle to the skin & broad spectrum preservation.
- ✓ Globally accepted cosmetic preservatives.
- ✓ Contains no controversial preservatives.
- ✓ Water soluble.
- ✓ Colourless & nearby odourless liquid.
- ✓ For natural certified cosmetics.
- ✓ Highly cost-effective.