

Kem BB

INCI composition: *Benzyl Alcohol*
Sodium Benzoate
Aqua

Appearance: Clear colourless liquid

Description

Kem BB is a broad spectrum preservative based on largely accepted and nature-identical ingredients. This system represents a gentle on the skin and effective alternative in cosmetic preservation which contains no questioned ingredients. With global approval for every personal care application, Kem BB can be used for the protection of a wide variety of cosmetics with slight acidic pH. Kem BB is particularly suggested in mild formulations and natural & organic cosmetics certified by the major certification standards (Ecocert, Soil Associate, BDIH, ICEA, COSMOS, NaTrue).

Antimicrobial activity

Kem BB consists in optimised combination of the antibacterial effect of Benzyl alcohol with the antifungal Sodium benzoate. It has a balanced broad spectrum effect against Gram-negative bacteria, Gram-positive bacteria, yeasts and moulds. For the presence of the salt of organic acid Sodium benzoate, the antimicrobial activity increases when the pH is lowered, with the best effect at acid pH below 5.5.

Properties and stability

Kem BB is very soluble in glycerin and glycols, soluble in water and alcohols. Colourless and with mild odour, it is stable to discolouration and low storage temperature, may tolerate working temperature upto 80°C. It is important that the formulation is maintained in the acid pH range upto 5.5 max.

Applications

Kem BB can be used to protect a variety of cosmetic products for rinse-off and leave-on, particularly aqueous systems and emulsions. It is also allowed for use as synthetic preservative in natural cosmetics according to main certification bodies. Typical personal care applications include:

- *Hair care:* gels, shampoos, lotions, conditioners, mousse, colourants.
- *Face & eye care:* serums, tonics, gels, lotions, creams, cleansers, masks.
- *Make-up:* foundations, powders, eyeshadows, eyeliner, 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 may be used with no additional preservatives at concentrations of 0.8-1.2% that can be increased to 1.5% in more complex formulations.

Regulatory approval

The components of Kem BB were extensively tested and used in cosmetics, pharmaceuticals and foods. The global regulatory acceptance allows to formulate cosmetics for worldwide distribution and for natural market. Kem BB is approved in *EU, USA, Latin America, Japan, China & ASEAN* in all categories of cosmetics without restrictions.

Technical support

Our microbiological laboratory may provide challenge testing service to support preservative choice. The optimal preservation is suggested on the basis of tests conducted on customer formulations.

For further information, documentation and samples please contact us.