

## Kem CP

**INCI name:** *Phenoxyethanol,  
Chlorphenesin,  
Ethylhexylglycerin*

**Appearance:** Clear colourless liquid with low odour

### Description

Kem CP is a liquid preservative based on the combination of the established preservatives Phenoxyethanol & Chlorphenesin with the boosting agent Ethylhexylglycerin.

This is a broad spectrum system active against bacteria, yeasts & moulds with no impact on odour, colour and pH of final formulations.

It is a preservative system optimized for a large variety of cosmetics for leave-on, rinse-off & wet wipes. Additionally Kem CP is soluble in water at the use levels representing a useful preservation tool for aqueous cosmetics like solutions & clear gels.

Kem CP represents a versatile and effective preservative globally approved that does not affect the desired properties of cosmetics and have limited final cost.

### Antimicrobial activity

Kem CP is a well-balanced broad spectrum preservative blend with the antibacterial properties of Phenoxyethanol plus the antifungal action of Chlorphenesin enhanced by the preservative booster Ethylhexylglycerin.

Ethylhexylglycerin enhances the performance of Phenoxyethanol & Chlorphenesin helping to reduce the amount of preservative needed and providing safer preservation.

### Properties and stability

Kem CP is very soluble in alcohol, glycerin and glycols, soluble in water to approx. 1.4% and slightly soluble in oils. It is a colourless and practically odourless liquid, very stable & fully effective in the pH range 3-8, stable to discoloration and well compatible with cosmetic raw materials. May tolerate working temperature up to 65°C.

### Applications

Kem CP can be efficiently used for the preservation of a variety of aqueous cosmetics, surfactants, emulsions, oils and anhydrous systems. Typical applications include:

- *Hair care:* shampoos, gels, lotions, conditioners, mousses, colourants, hair relaxers.
- *Face & eye care:* serums, tonics, gels, lotions, creams, cleansers, masks, oils, sticks, wipes.
- *Make-up:* foundations, mascaras, eyeshadows, eyeliners, lipsticks, lip glosses, powders, wipes.
- *Shaving products:* shaving creams, aftershave, lotions, creams.
- *Body, foot & hand care:* gels, lotions, creams, exfoliants, oils, wipes.
- *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, pastes, oils, powders, wipes.
- *Wet wipes:* baby wipes, hand wipes, face wipes, body wipes, feminine wipes, sun protection wipes.
- *Deodorant & antiperspirants:* solutions, gels, creams, pump sprays, sticks.
- *Raw materials:* surfactants, vegetal extracts.

The information given in this publication is based on our best knowledge and experience. We don't assume any liability in connection with its use. It is responsibility of the user to comply with all applicable laws and regulations, and observe all third party rights.

## ***Use levels***

Kem CP can be used at 0.8-1.2% alone or at lower levels to reduce the amount of other preservatives.

## ***Regulatory approval***

The components of Kem CP are widely used cosmetic ingredients with well-documented safety & toxicological profiles that are worldwide approved in cosmetics. This preservative blend is permitted in *EU, USA, Brazil, Latin America, China & ASEAN countries* in all personal care categories without restrictions. It is permitted in *Japan* except for cosmetics that come into contact with mucous membranes (eyeliners, oral & bath preparations).

## ***Technical support***

Our microbiological laboratory can support customers helping to achieve the most adequate preservation. Challenge testing is offered to determine the optimal level of preservative in the finished cosmetics. For further information, documentation and samples please contact us.

## ***Highlights***

- ✓ Broad spectrum & efficient cosmetic preservation.
- ✓ Based on non-questioned & globally accepted ingredients.
- ✓ Water soluble at the use levels.
- ✓ Colourless & nearly odourless liquid not pH sensitive.
- ✓ Stable in wide pH range & to discolouration.
- ✓ For clear aqueous cosmetics, solutions & gels.
- ✓ Versatile system for many cosmetic applications.
- ✓ Globally approved in leave-on & wet wipes.