



## Kem Plus

**INCI name:** *Phenoxyethanol,  
Iodopropynyl Butylcarbamate*

**Appearance:** Clear pale yellow liquid

### Description

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Kem Plus is a preservative designed for the antifungal protection of cosmetic formulations without parabens. It is a combination based on a powerful fungicide for the preservation in broad pH range with no effect on odour & viscosity of cosmetics.

### Antimicrobial activity

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Kem Plus is a preservative system based on high concentration of the fungicidal agent IPBC, highly effective against yeasts & moulds at very low levels.

### Properties & stability

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Kem Plus is very soluble in alcohols, glycols & polar oils, slightly soluble in water & mineral oil. It is stable and active in the pH range 3-9. Should be protected from direct sunlight.

### Applications

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Kem Plus is particularly indicated for the protection of personal care products susceptible to fungal contamination. Suitable for the preservation of emulsions, oil-based formulations & wet wipes. It is easily incorporated in surfactants-based products and may be dissolved at 0.1% in aqueous formulations & gels.

Typical applications include:

- *Hair care*: shampoos, lotions, conditioners, gels, mousses.
- *Body & face care*: tonics, gels, lotions, creams, oils, wipes.
- *Make-up*: foundations, wipes.
- *Sun products*: sunscreens, suntans, aftersuns.
- *Bath products*: shower gels, bubble baths, handcleaners, intimate, wipes.
- *Raw materials*: surfactants.

### Use levels

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Kem Plus may be used at 0.02-0.1% in association with antibacterial agents or as auxiliary system to improve the fungicidal activity of an existing preservation.

### Regulatory approval

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*EU, ASEAN*: allowed in bath products, shower gels and shampoos without restrictions. Allowed in leave-on products not for use on large part of body and not for children under 3 years (label required). Not to be used for oral-care and lip-care.

*USA*: allowed in rinse-off and leave-on products not to be aerosolized.

*Japan*: allowed in rinse-off and leave-on products not to be aerosolized.



### **Technical support**

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Challenge test can be offered to customers; the optimal preservation is suggested on the basis of tests conducted on customer formulations.

For further information, documentation and samples please contact us.

### **Highlights**

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- ✓ Powerful preservation against fungal contaminations.
- ✓ Based on the strongest antifungal preservative for cosmetics.
- ✓ Effective alternative to parabens.
- ✓ Not sensitive to pH and effective in wide pH range 3-9.
- ✓ No changes of odour & viscosity of finished cosmetics.
- ✓ Suitable for wide range of cosmetics, particularly suggested in rinse-off.
- ✓ Reduced use levels & competitive final costs.