



Kem Plus 2

INCI name: *Phenoxyethanol,*
Iodopropynyl Butylcarbamate

Appearance: Clear colourless to pale yellow liquid

Description

Kem Plus 2 is a powerful liquid preservative with broad spectrum antimicrobial activity alternative to parabens. It is effective in broad pH range, soluble in water at the use levels and does not change odour & viscosity of formulations. Suitable for the reliable protection of wide range of personal care products, it is particularly suggested in rinse-off cosmetics.

Antimicrobial activity

Kem Plus 2 is a preservative system highly effective against Gram-negative bacteria, Gram-positive bacteria, yeasts & moulds. It is a well balanced combination of effective preservatives: phenoxyethanol works as bactericidal while iodopropynyl butylcarbamate is the most powerful antifungal agent used in cosmetics.

Properties & stability

Kem Plus 2 is very soluble in alcohols & glycols, soluble in water & polar oils.
It is stable and active in the pH range 3-9. Should be protected from direct sunlight.

Applications

Kem Plus 2 is a preservation system that can be incorporated in wide range of cosmetic products from aqueous formulations (solutions, tonics, gels, surfactant-based) to oil-based formulations (emulsions, oils, lipogels) & wet wipes. Typical applications include:

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

Use levels

The suggested use levels of Kem Plus 2 are 0.4-0.9%, in this range no further antimicrobials are usually required for the adequate product preservation.

Regulatory approval

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

EU: 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.

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



Technical support

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

- ✓ Powerful broad spectrum preservation.
- ✓ Effective alternative to parabens.
- ✓ Not sensitive to pH and effective in wide pH range 3-9.
- ✓ Water soluble at the use levels.
- ✓ 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.