

Kemidant Plus

INCI composition: *DMDM Hydantoin*
Iodopropynyl Butylcarbamate

Appearance: white granular

Overview

Kemidant Plus is a powerful cosmetic preservative in solid form based on DMDM Hydantoin & IPBC. It is a synergistic combination with the highest antimicrobial efficacy for the broad spectrum protection of cosmetics in a wide pH range and without affecting the final appearance of formulations. Kemidant Plus represents an effective alternative to parabens-based system, active at very low levels .

Antimicrobial activity

Kemidant Plus is highly efficacious against Gram-negative bacteria, Gram-positive bacteria, yeasts & moulds. The synergistic combination of the antifungal properties of IPBC with the antibacterial properties of DMDM Hydantoin provides both bactericidal and fungicidal activity already at 0.05%.

Properties & stability

Kemidant Plus is soluble in alcohol and glycols, not soluble in water. Compatible with most cosmetic ingredients, it is stable to discoloration, effective over the range of pH 3-9, does not change odour & viscosity of finished cosmetics.

Applications

Kemidant Plus finds use in a wide range of personal care products: aqueous & hydro-alcoholic systems, surfactants-based, emulsions & anhydrous products. Typical applications include:

- *Hair care:* shampoos, lotions, conditioners, gels, mousses.
- *Body & face care:* serums, tonics, gels, lotions, creams, wipes.
- *Make-up:* foundations, eyeshadows, eyeliners, mascaras, powders, wipes.
- *Shaving products:* shave soaps, gels, aftershave balms, lotions, creams.
- *Sun products:* sunscreens, suntans, aftersuns.
- *Bath products:* shower gels, bubble baths, handcleaners, intimate, oils, powders, wipes.
- *Baby care:* shampoos, bath products, shower gels.
- *Raw materials:* surfactants.

Use levels

Kemidant Plus can be used at 0.05-0.3% alone, also in the most complex formulations.

Regulatory approval

EU, ASEAN: allowed in bath products, shower gels & 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 products not to be aerosolized with warning label.



Technical support

Our microbiological laboratory can support customers in the preservative choice; the optimal preservation is suggested on the basis of challenge tests conducted on customer's formulations.

For further information, documentation and samples please contact us.

Highlights

- ✓ Powerful broad spectrum preservation.
- ✓ Synergistic combination of strong cosmetic preservatives.
- ✓ Highly effective alternative to parabens.
- ✓ Not sensitive to pH and effective in wide pH range 3-9.
- ✓ No changes of colour, odour & viscosity of finished cosmetics.
- ✓ Reduced use levels.

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