



## Kemidant Plus

**INCI composition:** DMDM Hydantoin  
Iodopropynyl Butylcarbamate

**Appearance:** white granular

### Overview

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Kemidant Plus is a preservative blend in solid form based on DMDM Hydantoin and IPBC. Synergistic combination with broad spectrum activity and high antimicrobial efficacy suitable for the protection of a large variety of cosmetics in a wide pH range.

Kemidant Plus represents an effective alternative to parabens-based system, active also at very low levels and with reduced final in-use cost.

### Antimicrobial activity

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Kemidant Plus is highly efficacious against Gram-negative bacteria, Gram-positive bacteria, yeasts and molds. 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 and stability

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Kemidant Plus is soluble in alcohol and glycols, not soluble in water.

It is compatible with most cosmetic ingredients, stable to discoloration and effective over the range of pH 3-9.

### Applications

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Kemidant Plus find 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 and 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, gels, lotions, creams, oils, powders, wipes.
- *Raw materials:* surfactants, vegetal extracts.

### Use levels

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

### Regulatory approval

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*EU, ASEAN:* allowed in bath products, shower gels and shampoos without restrictions; in other rinse-off products can't be used for children under 3 years (label required). 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

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Our microbiology laboratory offers its technical and analytical support to customers. The most adequate preservative and its optimal use level is suggested on the basis of dedicated Challenge tests on single formulations.

For further information, documentation and sample please contact us.