



## Kemidant L Plus

**INCI composition:** DMDM Hydantoin

Aqua

Butylene Glycol

Iodopropynyl Butylcarbamate

**Appearance:** Clear, colourless viscous liquid

### Overview

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*Kemidant L Plus* is a powerful broad spectrum system based on traditional cosmetic preservatives without parabens. It is an easy to work liquid preservative that ensures complete protection of most difficult cosmetics at low use levels. *Kemidant L Plus* is an extremely versatile system effective over a broad range of pH and with no effects on colour, odour & viscosity of finished cosmetics.

The extremely low content of free-formaldehyde increases safety and reduces the regulatory requirements. It is globally approved in rinse-off products.

### Antimicrobial activity

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*Kemidant L Plus* is a synergistic combination of the bactericide DMDM Hydantoin with the fungicide Iodopropynyl Butylcarbamate dissolved in a hydro-glycolic solution. This synergistic ratio of components gives the maximum antimicrobial activity with the lowest level of preservatives, minimizing risks for user. It is effective against Gram- bacteria, Gram+ bacteria, yeasts and moulds.

### Properties & stability

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*Kemidant L Plus* is soluble in alcohol and glycols, slightly soluble in water and not soluble in oils. It is effective in the wide range of pH from 3 to 10. It has no incompatibilities with cosmetic ingredients. This combination is stable to discoloration and to freezing storage conditions with no crystallization problems.

### Applications

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*Kemidant L 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*: tonics, gels, lotions.
- *Make-up*: foundations, eye shadows, eyeliners, mascaras, powders.
- *Shaving products*: shave soaps, gels, aftershave balms, lotions, creams.
- *Bath products*: shower gels, bubble baths, hand cleaners, intimate, oils, powders.
- *Baby care*: shampoos, bath products, shower gels.
- *Raw materials*: surfactants.

### Use levels

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*Kemidant L Plus* can be used at 0.1-0.5% alone; concentrations of 0.5-0.6% are suggested in more complex formulations with high susceptibility to microbial contamination. The use level can be increased up to 0.85% max.



### **Regulatory approval**

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

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

*Japan:* allowed up to 0.4% in rinse-off products not to be aerosolized with warning label.

### **Technical support**

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Challenge testing service can be offered to customers; the optimal preservation is suggested on the basis of tests conducted on specific formulations.

For further information, documentation and sampleS please contact us.

### **Highlights**

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- ✓ Powerful & complete spectrum preservation.
- ✓ Based on highly effective cosmetic preservatives.
- ✓ Effective in broad pH range from pH 3 to 10.
- ✓ Colourless & odourless liquid.
- ✓ Protection of wide range of cosmetics.
- ✓ Reduced use levels & highly competitive costs.