



## **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.