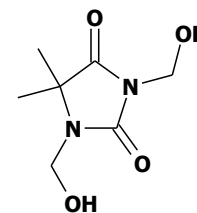




## Kemidant L40

**INCI name:** Water  
DMDM Hydantoin



**Appearance:** Clear colourless liquid

### Overview

Kemidant L40 is 40% water solution of DMDM Hydantoin, which is a cosmetic preservative of well proven efficacy with a long history of safe consumer use. This product has higher stability to low storage temperature in comparison to standard DMDM hydantoin.

### Antimicrobial activity

Kemidant L40 is highly effective against Gram-negative bacteria & Gram-positive bacteria; it is also active against moulds.

### Properties & stability

Kemidant L40 is very soluble in water and polar solvents, not soluble in oils and apolar solvents. It is stable and active in the pH range 3-9 and has no effects on colour, odour & viscosity of cosmetics. It may tolerate working temperature up to 80°C and is stable to storage temperature near 0°C. Compatible with anionic, cationic & non ionic cosmetic ingredients.

### Applications

Kemidant L40 can be easily incorporated in a wide range of cosmetic formulations. For its high water solubility it is particularly suggested in aqueous formulations & emulsions. Typical applications include:

- *Hair care:* shampoos, conditioners, gels, mousses.
- *Body & face care:* toners, gels, lotions, creams, wipes.
- *Make-up:* foundations, eyeliners, mascaras, powders, wipes.
- *Sun products:* sunscreens, suntans, aftersuns.
- *Bath products:* shower gels, bubble baths, handcleaners, intimate, wipes.
- *Baby care:* shampoos, bath products, gels, lotions, creams, powders, wipes.
- *Raw materials:* surfactants.

### Use levels

Kemidant L40 is normally used at 0.3-1.0% alone or in combination with antifungals in more complex formulations. It is synergistic with parabens, IPBC, other preservatives & preservative boosters.



### **Regulatory approval**

---

DMDM Hydantoin is widely used cosmetic preservative for decades, tested and approved by FDA & EU scientific committees.

In *EU, USA, Latin America, China & ASEAN* it is allowed up to 1.5% without restrictions.

In *Japan* it is allowed up to 0.75% in rinse-off products 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 specific cosmetics.

For further information, documentation and samples please contact us.

### **Highlights**

---

- ✓ Highest preservation efficacy against bacteria.
- ✓ Long history of safe cosmetic use.
- ✓ Higher stability to low storage temperature.
- ✓ Largely used in wide range of cosmetics.
- ✓ Easy to use.
- ✓ Not pH sensitive and effective in pH range 3-9.
- ✓ Highly soluble in water.
- ✓ Does not change odour, colour & viscosity of finished cosmetics.
- ✓ Low use levels & minimum final costs.