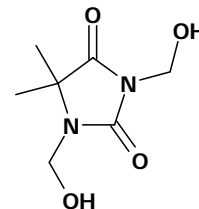


## Kemidant L

**INCI name:** DMDM Hydantoin

**CAS n°:** 6440-58-0



**Appearance:** Clear colourless liquid

### Overview

Kemidant L is a 55% water solution of DMDM Hydantoin. This compound during its 30 years of large consumers use has proven to be a highly active and safe preservative for cosmetics.

Evaluated by the expert panel of Cosmetic Ingredients Review (CIR) was judged safe, non irritating and non sensitizer at use levels.

### Antimicrobial activity

Kemidant L is highly effective against Gram-negative bacteria and Gram-positive bacteria; it is also active against molds.

### Properties and stability

Kemidant L 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.

May tolerate working temperature upto 80°C. Prolonged exposition to temperature <10°C may cause a crystallization of the solution that can be easily re-dissolved.

Compatible with anionic, cationic and non ionic cosmetic ingredients.

### Applications

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

- *Hair care:* shampoos, conditioners, gels, mousses.
- *Body and 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, vegetal extracts.

### Use levels

Kemidant L is normally used at 0.2-0.5% alone or in combination with antifungals in more complex formulations. It is synergistic with parabens and IPBC.

### Regulatory approval

*USA and EU:* allowed upto 1.09% without restrictions.

*Japan:* allowed upto 0.54% in rinse-off products with warning label.

### Technical support

Akema laboratory supports customers in the preservation of any product under development and contributes to improve the protection of existing formulations. The optimal level of preservatives to be used is suggested on the basis of specific preservative efficacy testing (Challenge test).

For further information, documentation and sample please contact us.

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