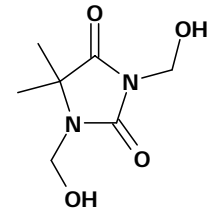


Kemidant L40

INCI name: DMDM Hydantoin

CAS n°: 6440-58-0



Appearance: Clear colourless liquid

Overview

Kemidant L40 is a 40% water solution of DMDM Hydantoin, which is a cosmetic preservative of well proven efficacy with a long history of safe consumer use.

Antimicrobial activity

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

Properties and 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.

May tolerate working temperature upto 80°C. Stable to temperature near 0°C.

Compatible with anionic, cationic and 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 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 L40 is normally used at 0.3-1.0% alone or in combination with antifungals in more complex formulations. It is synergistic with parabens and IPBC.

Regulatory approval

USA and EU: allowed upto 1.5% without restrictions.

Japan: allowed upto 0.75% 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.