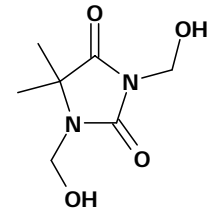


Kemidant

INCI name: DMDM Hydantoin

CAS n°: 6440-58-0



Appearance: White powder

Overview

Kemidant is DMDM Hydantoin in powder form at 99% of active. DMDM Hydantoin is one of the most commonly used preservatives in cosmetics and one of the ten most popular in USA today.

With more than 30 years of large consumers use, has proven to be highly active and safe. Kemidant is a reliable, versatile and cost-effective ingredient for the microbiological protection of personal care products.

Antimicrobial activity

Kemidant is one of the most effective antibacterial agents for cosmetics, highly efficacious against Gram-negative and Gram-positive bacteria, also active against molds.

Properties and stability

Kemidant is very soluble in water and polar solvents, not soluble in oils and apolar solvents.

Stable and active in the pH range 3-9. Tolerates extreme storage conditions and working temperature up to 80°C. It is compatible with anionic, cationic and non ionic ingredients.

Applications

Kemidant can be easily incorporated in a wide range of cosmetic formulations for rinse-off, leave-on and wet wipes. For the high water solubility, it is particularly suggested in aqueous systems 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 can be used at 0.1-0.3% alone or in combination with antifungals in more complex formulations. Synergistic with parabens and IPBC.

Regulatory approval

Globally approved and extensively examined over the years, was recognized as safe, non irritating and non sensitizing at use levels by the experts of Cosmetic Ingredients Review (CIR) and EU Scientific Committee of Consumer Products (SCCP).

USA, EU, ASEAN, Brazil: allowed up to 0.6% in all applications without restrictions.

Japan: allowed up to 0.3% in rinse-off products with warning label.

Technical support

Our microbiological laboratory offers challenge testing service; the most adequate preservation is suggested on the basis of tests on customer's formulations.

For further information, documentation and samples please contact us.

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