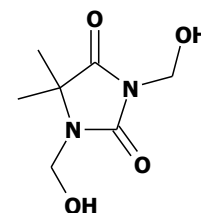




Kemidant

INCI name: DMDM Hydantoin

CAS n°: 6440-58-0



Appearance: White granular powder

Overview

Kemidant is DMDM hydantoin in powder form at 99% of active. DMDM hydantoin is one of the most used preservatives in cosmetics with more than 40 years of large consumers use and the most powerful antibacterial action.

Kemidant powder has a minimum content of free-formaldehyde (0.1% max.) and better safety classification & regulatory profile in comparison to the standard DMDM hydantoin blends.

Kemidant is an effective, stable and easy to formulate preservative with greater safety suitable for the protection of wide range of personal care products.

Antimicrobial activity

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

Properties & 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. Compatible with anionic, cationic & non ionic ingredients, it does not modify the colour, odour & viscosity of finished cosmetics.

Applications

Kemidant can be easily incorporated into wide range of cosmetic formulations for rinse-off, leave-on & wet wipes. For the high water solubility, it is particularly suggested in aqueous systems & 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 can be used at 0.1-0.3% alone or in combination with antifungals in more complex formulations. It is synergistic with parabens, IPBC as well as other preservatives & antimicrobial agents.



Regulatory approval

Widely used cosmetic preservative for decades, extensively tested and approved by FDA & EU scientific committees.

It is approved for cosmetics in *EU, USA, Latin America, China & ASEAN* up to 0.6% in all applications without restrictions. It is permitted in *Japan* up to 0.3% in rinse-off products with label.

Technical support

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

For further information, documentation and samples please contact us.

Highlights

- ✓ Highest preservation activity against bacteria.
- ✓ Over 40 years history of use in wide range of cosmetics.
- ✓ Greater safety classification.
- ✓ Easy to formulate.
- ✓ Not pH sensitive and effective in wide pH range 3-9.
- ✓ Highly soluble in water.
- ✓ Does not change odour, colour & viscosity of finished cosmetics.
- ✓ Stable to storage.
- ✓ Low use levels.
- ✓ Globally approved in rinse-off.