

MEDCIDE

Preservatives for personal care.



MEDOLLA

Cosmetic Specialty Ingredients

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The use of preservatives is essential in cosmetic products to prevent product damage caused by microorganisms and to protect the product from inadvertent contamination by the consumer during use. Without preservatives, cosmetic products can become contaminated with microorganisms or degrade from the adverse effect of oxygen, leading to product spoilage and possibly irritation or infections. Microbial contamination of products, especially those used around the eyes and on the skin, can cause significant problems. Preservatives, preventing the growth of bacteria, yeasts and moulds, help preventing such problems.

The range of Medcide preservatives consists of some of the most widely used preservatives for the personal care and cosmetic products.

- **Medcide D** (Diazolidinyl Urea) is a heterocyclic substituted urea produced by the reaction of allantoin and formaldehyde and is a very water soluble preservative, very active against all bacteria with some activity against moulds. Medcide D is a white hygroscopic powder. Suggested concentrations of use range from 0,1% to 0,5%, best in combination with 0,2% parabens.
- **Medcide DP2** is a clear liquid blend of Diazolidinyl urea, Methylparaben and Propylparaben in propylene glycol and is an excellent broad spectrum preservative for a wide range of personal care and cosmetic formulations. Suggested concentration of use is 1%.
- **Medcide DP2E** is a clear liquid blend of Diazolidinyl urea, Methyl and Propyl parabens in propylene glycol and is an excellent broad spectrum preservative, ideally suitable for emulsions. Suggested concentration of use is 1%.
- **Medcide F4** is a liquid blend of Methylisothiazolinone, Methylchloroisothiazolinone and benzyl alcohol in a hydro glycolic solution, stabilized by magnesium salts. Medcide F4 is active against bacteria, yeasts and moulds, even at low dosages. Medcide F4 is suitable for both leave on and rinse off formulations. Suggested concentrations of use range from 0,05% to 0,15%.
- **Medcide I** (Imidazolidinyl Urea) is a heterocyclic substituted urea produced by the reaction of allantoin with formaldehyde and is a very water soluble preservative, very active against Gram negative and Gram positive bacteria, but not activity against fungi. Suggested concentrations of use range from 0,1% to 0,5%, best in combination with parabens.
- **Medcide KR** is a 1,5% water solution of Methylchloroisothiazolinone and Methylisothiazolinone with stabilizers. Medcide Kr has a wide and balanced spectrum of action against bacteria, yeasts and moulds and is effective at very low concentrations. Medcide KR is suitable for both in leave-on and rinse off products, while is not recommended for the preservation of cosmetic products intended for the contact with mucous membranes, lips or in tooth-pastes. Suggested concentrations of use are 0,05% max. for leave-on products and 0,10% max. for rinse-off products.
- **Medcide PB** is a selected liquid blend of parabens in phenoxyethanol and is a broad spectrum preservative, active against bacteria, yeasts and moulds. It is suitable for both leave on and rinse off products. Suggested concentrations of use range from 0,25% to 1,00%.



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