



Preservative A2 Plus

INCI composition: *Diazolidinyl Urea*
Iodopropynyl Butylcarbamate

Appearance: Fine white powder

Description

Preservative A2 Plus is a powerful and broad spectrum system based on established cosmetic preservatives, alternative to parabens. It is effective against bacteria, yeasts & moulds at reduced use levels, works over wide range of pH and does not affect the appearance of cosmetic products.

Antimicrobial activity

Preservative A2 Plus is a synergistic combination of Diazolidinyl urea, which represents one of the most effective antibacterial agent, & Iodopropynyl Butylcarbamate that is the most powerful antifungal for cosmetics. This ratio of components provides strong broad-spectrum protection and gives the maximum antimicrobial activity with the lowest level of preservatives.

Properties & stability

Preservative A2 Plus is very soluble in propylene glycol, soluble in water, sparingly soluble in glycerine, very slightly soluble in ethanol and insoluble in mineral oil.

It is stable and effective in a pH range from 3 to 9. Prolonged exposition to heating over 40°C and direct sunlight should be avoided.

Applications

Preservative A2 Plus can be easily incorporated in wide range of products like aqueous formulations, emulsions & wet wipes. It does not change the odour, colour & viscosity of final cosmetics and is compatible with most commonly used cosmetic ingredients. Typical applications in personal care include:

- *Hair care:* shampoos, lotions, conditioners, gels, mousses.
- *Body & face care:* tonics, lotions, wipes.
- *Make-up:* foundations, eye shadows, eyeliners, mascaras, powders, wipes.
- *Shaving products:* shave soaps, aftershave balms, lotions, creams.
- *Bath products:* shower gels, bubble baths, hand cleaners, intimate, oils, powders, wipes.
- *Baby care:* shampoos, bath products, shower gels.
- *Raw materials:* surfactants.

Use levels

Preservative A2 Plus may be used at concentrations of 0.05-0.5%. No further preservatives are needed also in more difficult to preserve cosmetics.

Regulatory approval

EU, ASEAN: allowed in bath products, shower gels & shampoos without restrictions; in the other rinse-off products it cannot be used for children under 3 years (label required). Allowed in leave-on products not for use on large parts of body and not for children under 3 years (label required). Not to be used for oral-care and lip-care.

USA: allowed in rinse-off & leave-on products not to be aerosolized.

Japan: Not allowed.



Technical support

Challenge tests can be offered to customers, the optimal preservation is suggested on the basis of tests conducted on customer formulations.

For further information, documentation and samples please contact us.

Highlights

- ✓ Complete spectrum & most powerful preservation.
- ✓ Synergistic combination of the strongest cosmetic preservatives.
- ✓ Alternative to parabens.
- ✓ Easy to formulate in wide range of cosmetics.
- ✓ Not sensitive to pH and effective in wide pH range 3-9.
- ✓ No changes of colour, odour & viscosity of finished cosmetics.
- ✓ Reduced use levels & competitive final costs.