

iBACT DU

INCI Name (US): Diazolidinyl Urea

INCI Name (EU): Diazolidinyl Urea

CAS #: 78491-02-8

**General Information/
Characteristics:**

iBact DU is a cosmetic preservative highly effective against Gram-negative and Gram-positive bacteria over the period of storage and use of the product, widely used for the prevention of bacterial contamination in personal care products.

iBact DU was developed from Imidazolidinyl Urea, it has been available as cosmetic ingredient since 1981, and had become, as reported by the FDA, one the ten most frequently used preservatives in cosmetics sold in USA.

Benefits / Application:

iBact DU is widely used as antiseptic in creams, lotion, shampoo, conditioner, liquid cosmetic and eye-cosmetics. It will be more effective if combined with parabens.

Formulations Advices:

iBact DU at in-use concentrations of 0.2 - 0.5%.

Regulatory Status:

iBact DU is very soluble in water, freely soluble in glycerin and propylene glycol, very slightly soluble in ethanol, methanol and practically insoluble in almost all organic solvents and oils.

In emulsions and in every hot process, its addition is recommended at temperature below 50°C during the cooling stage, after the fragrance.

It should always be incorporated into the water phase. It may be added as a powder or as a water concentrate.

For a complete cosmetic preservative system, Diazolidinyl Urea may be added with Methyl Paraben and Propyl Paraben: the combination with parabens takes advantages of a synergistic action and provides a generally applicable, wide-range, versatile system.

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Physic-Chemical Properties:

Appearance	Powder
Color:	White
Odor:	Characteristic
pH value (25 °C, 1% soln)	5.0 - 8.0
Loss on drying (%)	≤ 3.0
Nitrogen content (%)	19.0 – 21.0
Heavy Metals (ppm)	≤ 10

**These values indicate typical specification; they are not intended to be used as product specifications*

Additives:

Preservatives: No applicable

Shelf Life / Storage Conditions

The product is very hygroscopic, so it should be stored in tightly closed containers. At his condition it guaranteed shelf-life is of 1 year from the manufacturing date.

Packaging:

25 kg/ drum

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Version:

Date:

