

**iBACT CU**

**INCI Name (US):** Chlorhexidine Undecylenate

**INCI Name (EU):** Chlorhexidine Undecylenate

**CAS #:** 1884575-91-0

**General Information/  
Characteristics:**

**iBact CU:**

- Is an oil soluble antibacterial and antifungal active ingredient.
- Effective against gram positive and gram-negative bacteria, fungi, yeast and molds.
- Biodegradable.
- Compatible with most of the other personal care ingredients.
- Effective on pH range 5 to 8.

**Benefits / Application:**

- ❖ Soaps and Detergents
- ❖ Household Disinfectants
- ❖ Oral Care: Toothpastes and Mouth Rinse
- ❖ Hair Care: Shampoos and Conditioners
- ❖ Skin Care: Creams, Lotions, Hand Washes and Sanitizers
- ❖ Pharmaceutical Disinfectant for Instruments
- ❖ Industrial: Paint and Coating Industry as an antifungal and antifouling agent; plastics and fibers in Textile Industry.

**Formulations Advices:**

**iBact CU** can be applied around 0.05% to 0.15% in the finished formulation.

**Regulatory Status:**

No applicable

**Physical-Chemical  
Properties:**

Appearance	Powder
Color:	White to off white
Loss on drying	Max. 1.0 %
4-Chloroaniline	Max. 0.5 %
Residue of ignition	Max. 0.10
Purity HPLC	98 – 102 %
Solubility	Very slightly soluble in water (0.001%), Freely soluble in alcoholic solvents and glycols.

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

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<b>Additives:</b>	Study shows 0.1% <b>iBact CU</b> is more effectively working against microorganisms.
<b>Shelf life/Storage</b>	Keep container tightly closed in a dry and well-ventilated place.
<b>Packaging:</b>	25 kg/ drum

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**Time Kill Test vs. Triclosan**

Test Product	Test Organism	Exposure Time	Anti-Microbial Activity % Reduction
0.3% Triclosan	Escherichia Coli	30 sec	99.97
		60 sec	>99.99
		2 min	>99.99
	Staph. Aureus	30 sec	>99.99
		60 sec	>99.99
		2 min	>99.99
0.1% iBact CU	Escherichia Coli	30 sec	>99.99
		60 sec	>99.99
		2 min	>99.99
	Staph. Aureus	30 sec	>99.99
		60 sec	>99.99
		2 min	>99.99

**Comparison with Other Anti-Microbials**

Test Organism	iBact CU	Nanosilver	Triclosan	Triclocarban
Effective against gram (+) bacteria	✓	✓	✓	✓
Effective against gram (-) bacteria	✓	✓	✓	
Antifungal Properties	✓	✓	✓	
Fast acting (Time to complete kill)	✓	-	✓	✓
Biocompatibility (inert towards mammalian cells)	✓	-	-	-
Multi-faceted mode of kill	✓	-	-	-
Very low probability of bacterial resistance	✓	-	-	-
Minimal environmental concerns	✓	-	-	-
Controllable release (tunable solubility)	✓	-	-	-
Cost Effective	✓	-	✓	✓

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