

# Iscaguard BIB

Paraben Free	Thiazolinone Free	Formaldehyde Free	Preservative Free	Natural
✓	✓	✓	✗	✗

INCI declaration	
Benzyl Alcohol, 2-Bromo-2-Nitropropane-1,3-Diol, Iodopropynyl butylcarbamate	

Iscaguard BIB is a liquid blend of Bronopol (2-Bromo-2-Nitropropane-1,3-Diol) and IPBC (Iodopropynyl butylcarbamate) in benzyl alcohol. The incorporation of benzyl alcohol increases the headspace protection of many cosmetic products during storage, while further boosting the already broad spectrum antimicrobial activity of the Bronopol and IPBC blend. Iscaguard BIB blend is highly potent against fungal spoilage.

In Use Concentrations	ISCA recommendation	EU Cosmetic Regulation (max)
Leave-on	0.05 – 0.2 %	0.2 % #
Rinse-off	0.05 – 0.2 %	0.4 % #

# Not to be used in oral and lip products.

Rinse-off products: Not to be used in products for children under 3 years of age, except in bath products / shower gels and shampoos.

Leave-on products: Not to be used in body lotion and body cream. Not to be used in products for children under 3 years of age.

Deodorants/antiperspirants: maximum permitted dosage - 0.375 %. Not to be used in products for children under 3 years of age.

In-use concentrations vary according to the formulation type and other ingredients present. The correct use dosage should be determined by microbial challenge testing of the finished formulation (ISCA UK offers discounted challenge testing to our customers).

## Recommended Applications

Shampoo, Shower gel (Rinse-off)	Creams, lotions (Leave-on)	O/W emulsions	W/O emulsions	Wet wipes	Eye care	Lip Care	Oral care	Children under 3
●		●	●	●				

Use scenarios derived from evaluation of Cosmetic Regulation guidelines and preservative performance for typical formulations.

Formulation guidelines	
pH (effective range)	4.5 – 8.5
Solubility (Water)	~2.5 %
Solubility (Glycols)	Soluble
Maximum Process Temperature	40 °C
General information	Iscaguard BIB can be processed at temperatures up to 40 °C, but only for brief periods. Care should be taken to avoid the formation of nitrosamines. Not to be used in products for children under 3, except bath products / shower gels/ shampoos. Not to be used in body lotion and body cream. Not to be used in lip and oral care products.

Minimum Inhibitory Concentrations	
Microorganism	MIC (%)
<b>Bacteria (gram-negative)</b>	
Pseudomonas aeruginosa	0.005
<b>Bacteria (gram-positive)</b>	
Staphylococcus aureus	0.021

Minimum Inhibitory Concentrations	
Microorganism	MIC (%)
<b>Yeasts</b>	
Candida albicans	0.001
<b>Moulds</b>	
Aspergillus niger	0.021

Physical Properties (approximate)	
Appearance	Clear to light yellow viscous liquid
Odour	Faint
Density	1.1 g/cm <sup>3</sup>

Physical Properties (approximate)	
pH (as supplied)	n/a
Solubility in water	~2.5 %
Solubility in glycols	Soluble

Safety information

Cosmetic Regulation labelling requirements
Not to be used for children under three years of age.

Transport information	
	not regulated
UN number	-
UN proper shipping name	-
Transport hazard class	-
Packing group	-
Environmental hazards	-

Hazard classification/labelling	
Hazard pictograms	
Signal word	Harmful
Hazard statements	Harmful by ingestion. May cause skin irritation. May cause eye irritation.



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The information contained herein is, to the best of our knowledge, true and accurate. Any recommendations or suggestions are made without warranty or guarantee as the conditions of use are beyond our control. We strongly recommend that all products containing IscaGuard are rigorously tested to ensure suitability for end-use.

