

# Iscaguard B

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

INCI declaration
Butylparaben

Iscaguard B is a dry powder form of high purity Butylparaben. With its efficient broad spectrum antimicrobial efficacy and low toxicity profile, Butylparaben is widely used in the personal care industry.

In Use Concentrations	ISCA recommendation	EU Cosmetic Regulation (max)
Leave-on <sup>#</sup>	0.05 – 0.14 %	0.14 %
Rinse-off	0.05 – 0.14 %	0.14 %

# Not to be used in leave-on products designed for application on the nappy area of children under 3 years of age. Leave-on products designed for children under 3 years of age must be labelled “Do not use on the nappy area”.

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)	4.0 – 8.0
Solubility (Water)	0.005 % (w/w), approx.)
Solubility (Glycols)	110 % (w/w)
Maximum Process Temperature	80 °C
General information	Must not exceed 0.8 % total Paraben content (Methyl, Ethyl, Propyl, Butyl) in finished products, with a maximum combined total 0.14 % of Propylparaben and Butylparaben, according to the European Cosmetic Regulation.

Minimum Inhibitory Concentrations	
Microorganism	MIC (µg/ml)
<b>Bacteria (gram-negative)</b>	
Salmonella typhosh	1000
Salmonella shottmuelleri	1000
Escherichia coli	4000
Klebsiella pneumoniae	125
Pseudomonas aeruginosa	4000
Proteus vulgaris	500
<b>Bacteria (gram-positive)</b>	
Staphylococcus aureus	120
Bacillus cerus	63
Bacillus subtilis	125
Sarcina lutea	120

Minimum Inhibitory Concentrations	
Microorganism	MIC (µg/ml)
<b>Fungi</b>	
Candida albicans	120
Trichophyton rubrum	20
Trichophyton mentagrophytes	20
Saccharomyces pastorianus	100
<b>Moulds</b>	
Aspergillus niger	100
Aspergillus oryzae	100
Penicillium digitatum	63
Rhizopus nigricans	63
Trichoderma lignorum	63
Chaetomium globosum	100

Physical Properties (approximate)	
Appearance	Crystalline solid, White
Odour	Low
Residual solvents (n-Butanol)	<5000 ppm
Melting point	69 - 71 °C

Physical Properties (approximate)	
Solubility (Water, 10 °C)	0.005 % (w/w)
Solubility (Water, 80 °C)	0.15 % (w/w)
Solubility (Glycerin, 25 °C)	0.3 % (w/w)
Solubility (Propylene glycol, 25 °C)	110% (w/w)

Safety information

**Cosmetic Regulation labelling requirements**

Leave-on products designed for children under 3 years of age containing propylparaben or butylparaben must be labelled "Do not use on the nappy area".

Transport information	
	IMDG
UN number	-
UN proper shipping name	Not dangerous goods
Transport hazard class	-
Packing group	-
Environmental hazards	-

Hazard classification/labelling	
Hazard pictograms	
Signal word	-
Hazard statements	Not classified as hazardous



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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.