

Iscaguard P

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

INCI declaration
Propylparaben

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

In Use Concentrations	ISCA recommendation	EU Cosmetic Regulation (max)
Leave-on#	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)	0.025 % ((w/w), approx.)
Solubility (Glycols)	26 % (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)
Bacteria (gram-negative)	
Salmonella typhosh	1000
Salmonella shottmuelleri	500
Escherichia coli	100
Klebsiella pneumoniae	250
Pseudomonas aeruginosa	8000
Proteus vulgaris	500
Bacteria (gram-positive)	
Staphylococcus aureus	500
Bacillus cerus	1250
Bacillus subtilis	250
Sarcina lutea	500

Minimum Inhibitory Concentrations	
Microorganism	MIC (µg/ml)
Fungi	
Candida albicans	120
Trichophyton rubrum	40
Trichophyton mentagrophytes	40
Saccharo myces pastorianus	240
Moulds	
Aspergillus niger	200
Aspergillus oryzae	200
Penicillium digitatum	63
Rhizopus nigricans	125
Trichoderma lignoram	125
Chaetomium globosum	200

Physical Properties (approximate)	
Appearance	Crystalline solid, White
Odour	Low
Residual solvents (Propanol)	<5000 ppm
Melting point	96 - 98 °C

Physical Properties (approximate)	
Solubility (Water, 10 °C)	0.025 % (w/w)
Solubility (Water, 80 °C)	0.3 % (w/w)
Solubility (Glycerin, 25 °C)	0.4 % (w/w)
Solubility (Propylene glycol, 25 °C)	26 % (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



ISCA UK Ltd Nine Mile Point Industrial Estate, Cross Keys, Newport NP11 7HZ, Wales, UK

Tel: +44(0)1495 200747 Fax: +44(0)1495 200757 E-mail: enquiries@iscauk.com www.iscauk.com

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.

