

# Iscaguard E

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

INCI declaration
Ethylparaben

Iscaguard E is a dry powder form of highly pure Ethylparaben. With its efficient broad spectrum antimicrobial efficacy and low toxicity profile, Ethylparaben is widely used in the personal care industry.

In Use Concentrations	ISCA recommendation	EU Cosmetic Regulation (max)
Leave-on	0.05 – 0.15 %	0.4 %
Rinse-off	0.05 – 0.15 %	0.4 %

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)	0.07 % ((w/w), approx.)
Solubility (Glycols)	25 % (w/w)
Maximum Process Temperature	80 °C
General information	Must not exceed 0.8 % total Paraben content (Methyl, Ethyl, Propyl, Butyl) in finished products 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	1000
Klebsiella pneumoniae	500
Pseudomonas aeruginosa	4000
Proteus vulgaris	1000
<b>Bacteria (gram-positive)</b>	
Staphylococcus aureus	1000
Bacillus cerus	1000
Bacillus subtilis	1000
Sarcina lutea	1000

Minimum Inhibitory Concentrations	
Microorganism	MIC (µg/ml)
<b>Fungi</b>	
Candida albicans	1000
Trichophyton rubrum	80
Trichophyton mentagrophytes	80
Saccharomyces pastorianus	750
<b>Moulds</b>	
Aspergillus niger	400
Aspergillus oryzae	400
Penicillium digitatum	250
Rhizopus nigricans	250
Trichoderma lignorum	130
Chaetomium globosum	750

Physical Properties (approximate)	
Appearance	Crystalline solid, White
Odour	Low
Residual solvents (Ethanol)	<5000 ppm
Melting point	116 - 118 °C

Physical Properties (approximate)	
Solubility (Water, 10 °C)	0.07 % (w/w)
Solubility (Water, 80 °C)	0.86 % (w/w)
Solubility (Glycerin, 25 °C)	0.50 % (w/w)
Solubility (Propylene glycol, 25 °C)	25.0 % (w/w)

Safety information

Cosmetic Regulation labelling requirements
No special labelling requirements.

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.