

Iscaguard M

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

INCI declaration
Methylparaben

Iscaguard M is a dry powder form of highly pure Methylparaben. With its efficient broad spectrum antimicrobial efficacy and low toxicity profile, Methylparaben 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)	0.02 % ((w/w), approx.)
Solubility (Glycols)	22 % (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)
Bacteria (gram-negative)	
Salmonella typhosh	2000
Salmonella shottmuelleri	2000
Escherichia coli	2000
Klebsiella pneumoniae	1000
Pseudomonas aeruginosa	4000
Proteus vulgaris	2000
Bacteria (gram-positive)	
Staphylococcus aureus	4000
Bacillus cerus	2000
Bacillus subtilis	2000
Sarcina lutea	4000

Minimum Inhibitory Concentrations	
Microorganism	MIC (µg/ml)
Fungi	
Candida albicans	1000
Trichophyton rubrum	160
Trichophyton mentagrophytes	160
Saccharo myces pastorianus	1300
Moulds	
Aspergillus niger	1000
Aspergillus oryzae	1000
Penicillium digitatum	300
Rhizopus nigricans	500
Trichoderma lignoram	250
Chaetomium globosum	1500

Physical Properties (approximate)	
Appearance	Fine white powder
Odour	Low
Residual solvents (Methanol)	<3000 ppm
Melting point	125 - 128 °C

Physical Properties (approximate)	
Solubility (Water, 10 °C)	0.2 % (w/w)
Solubility (Water, 80 °C)	2.0 % (w/w)
Solubility (Propylene glycol, 25 °C)	22 % (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	Information on request
Hazard statements	



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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.

