

Iscaguard PEG

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

INCI declaration
Phenoxyethanol, triethylene glycol

Phenoxyethanol is a mild, versatile preservative for personal care formulations. The addition of triethylene glycol increases its effectiveness by lowering surface tension in order to enhance its penetration through the cell membrane of microorganisms. Iscaquard PEG is a cost effective preservative, offering a broad, balanced spectrum of activity against bacteria, yeasts, and moulds.

In Use Concentrations	ISCA recommendation	EU Cosmetic Regulation (max)
Leave-on	0.4 - 1.0 %	1.11 %
Rinse-off	0.4 - 1.0 %	1.11 %

In use concentrations vary according to the formulation type and the 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

	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.















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Formulation guidelines				
pH (effective range)	3.0 - 9.0			
Solubility (Water)	2.6 %			
Solubility (Glycols)	Fully soluble			
Maximum Process Temperature	80 °C			
General information	Iscaguard PEG is compatible with most personal care ingredients. In aqueous formulations, heating to 40°C may be required in order to fully dissolve the preservative.			

Minimum Inhibitory Concentrations				
Microorganism	MIC (%)			
Bacteria (gram-negative)				
Pseudomonas aeruginosa	0.30			
Escherichia coli	0.30			
Proteus vulgaris	0.29			
Bacteria (gram-positive)				
Staphylococcus aureus	0.30			
MRSA	0.40			
Bacillus cereus	0.26			
Enterococcus faecium	0.42			

Minimum Inhibitory Concentrations				
Microorganism	MIC (%)			
Yeasts				
Candida albicans	0.125			
Candida famata	0.125			
Saccharomyces cerevisiae	0.44			
Moulds				
Aspergillus brasiliensis	0.25			

Disclaimer: The information contained in this document is intended to be of assistance to users. We believe the information set forth above to be true and accurate, but such information is provided without any warranty, and shall establish no legal duty or responsibility on the part of Isca UK Ltd.











