Iscaguard PEG

Paraben Free	Thiazolinone Free	Formaldehyde Free	Preservative Free	Natural		
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INCI declaration						
Phenoxyethanol, triethylene glycol						

Phenoxyethanol is a versatile, widely used preservative for personal care formulations. The addition of triethylene glycol increases its effectiveness by lowering its surface tension in order to enhance its activity at the cell membranes of microorganisms. Iscaguard PEG has a broad, balanced spectrum of activity against bacteria, yeasts, mould and fungi.

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 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)		0/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)	3 - 9		
Solubility (Water)	2.6 %		
Solubility (Glycols)	Soluble		
Maximum Process Temperature	80 °C		
General information	Iscaguard PEG is compatible with most personal care ingredients. In aqueous formula- tions, heating to 40°C may be required in order to fully dissolve the preservative.		

Minimum Inhibitory Concentrations		Minimum Inhibitory Concentrations		
Microorganism	MIC (%)	Microorganism	MIC (%)	
Bacteria (gram-negative)		Yeasts		
Pseudomonas aeruginosa	0.22	Candida albicans	0.32	
Escherichia coli	0.44	Saccharomyces cerevisiae	0.44	
Proteus vulgaris	0.29	Moulds		
Bacteria (gram-positive)		Aspergillus brasiliensis	0.23	
Staphylococcus aureus	0.47			
Bacillus cerus	0.26			
Enterococcus faecium	0.42			

Iscaguard[®] Preservative Blends » Personal Care Preservative

Physical Properties (approximate)			
Appearance	Clear colurless iquid		
Colour	< 10 APHA		
Odour	Odourless		
Density	1.11 gcm ⁻³		

Physical Properties (approximate)			
Flash point	> 110°C		
Solubility in water	2.6 %		
Solubility in glycols	Soluble		

Safety information

Cosmetic Regulation labelling requirements

No special labelling requirements.

Transport information		Hazard classification/labelling		
	not regulated	Hazard pictograms	$\mathbf{\wedge}$	
UN number	-			
UN proper shipping name	-		•	
Transport hazard class	-			
Packing group	-	Signal word	Warning	
Environmental hazards	-	Hazard statements	нзо2 Harmful if swallowed. нз19 Causes serious eye	
			irritation.	







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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.