Iscaguard PE

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

INCI declaration
Phenoxyethanol

Phenoxyethanol is a versatile, widely used preservative for personal care formulations. Iscaguard PE has a broad, balanced spectrum of activity against bacteria, yeasts, mould and fungi. For increased activity Iscaguard PEG and Iscaguard PEHG are recommended alternatives that do not contain any additional preservatives.

In Use Concentrations	ISCA recommendation	EU Cosmetic Regulation (max)
Leave-on	0.7 – 1.0 %	1.0 %
Rinse-off	0.7 – 1.0 %	1.0 %

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)	0/W emulsions	W/0 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)	2.4 %	
Solubility (Glycols)	Soluble	
Maximum Process Temperature	80 °C	
	Iscaguard PE 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	0.4		
Escherichia coli	0.4		
Bacteria (gram-positive)			
Staphylococcus aureus	0.5		
MRSA	0.5		

Minimum Inhibitory Concentrations				
Microorganism	MIC (%)			
Yeasts				
Candida albicans	0.5			
Candida famata	0.5			
Moulds				
Aspergillus niger	0.5			
*				

Physical Properties (approximate)		
Appearance	Clear colourless liquid	
Colour	< 10 APHA	
Odour	Low odour	
Density	1.1 gcm ⁻³	

Physical Properties (approximate)		
Flash point	> 110°C	
Initial boiling point	245 °C	
Solubility in water	2.4 %	
Solubility in glycols	Soluble	

Safety information

Cosmetic Regulation labelling requirements

No special labelling requirements.

Transport information		
	not regulated	
UN number	-	
UN proper shipping name	-	
Transport hazard class	-	
Packing group	-	
Environmental hazards	-	

Hazard classification/labelling		
Hazard pictograms		
Signal word	Warning	
Hazard statements	H302 Harmful if swallowed. H319 Causes serious eye irritation.	











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