

Iscaguard PEHG

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

INCI declaration
phenoxyethanol, ethylhexylglycerin

Iscaguard PEHG is a blend of phenoxyethanol with ethylhexylglycerin. Although primarily a skin conditioning agent, ethylhexylglycerin increases the preservative efficacy of phenoxyethanol, thus creating milder formulations by reducing the overall required preservative dosage.

In Use Concentrations	ISCA recommendation	EU Cosmetic Regulation (max)
Leave-on	0.7 – 1.0 %	1.11 %
Rinse-off	0.7 – 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

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.

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Formulation guidelines	
pH (effective range)	3.0 – 9.0
Solubility (Water)	~0.6 %
Solubility (Glycols)	Fully soluble
Maximum Process Temperature	80 °C
General information	Iscaguard PEHG 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	0.40
Escherichia coli	0.40
Bacteria (gram-positive)	
Staphylococcus aureus	0.40
MRSA	0.40

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

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