

Iscaguard PEHG

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

INCI declaration
Phenoxyethanol, ethylhexylglycerin

Iscaguard PEHG is a blend of Phenoxyethanol with efficacy boosting Ethylhexylglycerin. With its primary registered function being a skin conditioning agent, ethylhexylglycerin improves the quality of cosmetic products while reducing the reliance on preservatives.

In Use Concentrations	ISCA recommendation	EU Cosmetic Regulation (max)
Leave-on	0.5 – 1.0 %	1.11 %
Rinse-off	0.5 – 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)	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)	3 – 9
Solubility (Water)	1.0 %
Solubility (Glycols)	Soluble
Maximum Process Temperature	80 °C
General information	-

Minimum Inhibitory Concentrations	
Microorganism	MIC (%)
Bacteria (gram-negative)	
Pseudomonas aeruginosa	0.4
Escherichia coli	0.4
Bacteria (gram-positive)	
Staphylococcus aureus	0.4
MRSA	0.4

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

Physical Properties (approximate)	
Appearance	Clear liquid
Odour	Almost odourless
Density	~1.1 gcm ⁻³
pH (0.5% in water)	-


Physical Properties (approximate)	
Solubility in water	1.0 %
Solubility in ethanol	Soluble
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	Danger
Hazard statements	H318 Causes serious eye damage. H302 Harmful if swallowed.