

Iscaguard CPG

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

INCI declaration
caprylyl glycol

Iscaguard CPG is a multifunctional additive that can be used to create “self-preserving” formulations. Caprylyl glycol is a humectant and skin conditioning agent, providing excellent moisturisation, emollience and wetting properties to formulations. Iscaguard CPG has intrinsic antimicrobial properties, which reduces the reliance on traditional preservatives to create products with low irritation and sensitisation potential.

In Use Concentrations	ISCA recommendation	EU Cosmetic Regulation (max)
Leave-on	0.2 – 1.2 %	Unlimited (not listed on Annex V)
Rinse-off	0.2 – 1.2 %	Unlimited (not listed on Annex V)

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)	Hair care	Deodorants	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.



Iscaguard CPG

Formulation guidelines	
pH (effective range)	3 – 12
Solubility (Water)	< 0.75 %
Solubility (Glycols)	Soluble
Maximum Process Temperature	80 °C
General information	Iscaguard CPG is supplied as a waxy solid at ambient temperature. It is particularly suitable for emulsions, oil and surfactant based formulations. It is advisable to pre-dissolve the product in a non-aqueous component prior to the addition of water (Iscaguard CPG shows good solubility in alcohols, glycols and mineral oils). Iscaguard CPG can be incorporated into finished products at temperatures up to 80°C, although prolonged heating is not recommended.

Minimum Inhibitory Concentrations	
Microorganism	MIC (%)
Bacteria (gram-negative)	
Pseudomonas aeruginosa	0.10
Escherichia coli	0.10
Bacteria (gram-positive)	
Staphylococcus aureus	0.175
Bacillus cerus	0.20
Enterococcus faecium	0.20

Minimum Inhibitory Concentrations	
Microorganism	MIC (%)
Yeasts	
Candida albicans	0.175
Saccharomyces cerevisiae	0.10
Moulds	
Aspergillus brasiliensis	0.175

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.