

Iscaguard DCG

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

INCI declaration
decylene glycol

Iscaguard DCG is a multifunctional additive that can be used to create “self-preserving” cosmetics. Decylene glycol is a humectant and skin conditioning agent, providing excellent moisturisation, emollience and wetting properties. Additionally, it can be used as a foam and viscosity booster for shampoo, shower gel and hand soap formulations. Iscaguard DCG has intrinsic anti-microbial properties, which reduces the reliance on traditional preservatives to allow the creation of cosmetics with low irritation and sensitisation potential.

In Use Concentrations	ISCA recommendation	EU Cosmetic Regulation (max)
Leave-on	0.5 – 1.5 %	No limit
Rinse-off	0.5 – 1.5 %	No limit

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
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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 – 12.0
Solubility (Water)	Insoluble
Solubility (Glycols)	Soluble in glycols
Maximum Process Temperature	90 °C
General information	<p>Iscaguard DCG is compatible with most commonly used personal care ingredients. 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 DCG shows good solubility in alcohols, glycols and mineral oils). Iscaguard DCG can be incorporated into formulations at temperatures up to 90°C, although prolonged heating is not recommended.</p>

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