

Iscaguard POA

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

INCI declaration
Phenoxyethanol, dehydroacetic acid, benzoic acid, sorbic acid

Iscaguard POA is a blend of organic acids in Phenoxyethanol. It is suitable for formulations with acidic pH, and offers protection against bacteria, yeasts, moulds and fungi. Incorporation of Phenoxyethanol allows for increased headspace protection during storage.

In Use Concentrations	ISCA recommendation	EU Cosmetic Regulation (max)
Leave-on	0.5 – 1.0 %	1.25 %
Rinse-off	0.5 – 1.0 %	1.25 %

Not to be used in aerosol dispensers (sprays)

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)	3.0 – 6.5
Solubility (Water)	1.0 % (approx.)
Solubility (Glycols)	Soluble
Maximum Process Temperature	40 °C
General information	Iscaguard POA is compatible with most personal care ingredients. In aqueous formulations, heating to 40°C may be required in order to fully dissolve the preservative. However, prolonged exposure to high temperatures should be avoided in order to protect against discolouration. Iscaguard POA works effectively at pH values below 6.5, though for optimal efficacy we recommend that the pH of the finished product is less than 6. Iscaguard POA is not to be used in aerosol dispensers (sprays) under the Cosmetic Regulation.

Minimum Inhibitory Concentrations	
Microorganism	MIC (%)
Bacteria (gram-negative)	
Pseudomonas aeruginosa	0.35
Escherichia coli	0.16
Proteus vulgaris	0.26
Bacteria (gram-positive)	
Staphylococcus aureus	0.12
Bacillus cerus	0.22
Enterococcus faecium	0.21

Minimum Inhibitory Concentrations	
Microorganism	MIC (%)
Yeasts	
Candida albicans	0.16
Saccharomyces cerevisiae	0.12
Moulds	
Aspergillus niger	0.15

Physical Properties (approximate)	
Appearance	Light yellow liquid
Odour	Faint
Density	1.12 gcm ⁻³

Physical Properties (approximate)	
Flash point	126 °C
Solubility in water	1.0 %
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	Harmful
Hazard statements	R22 Harmful if swallowed. R36/37/38 Irritating to eyes, respiratory system and skin.



ISCA UK Ltd Nine Mile Point Industrial Estate, Cross Keys, Newport NP11 7HZ, Wales, UK

Tel: +44(0)1495 200747 Fax: +44(0)1495 200757 E-mail: enquiries@iscauk.com www.iscauk.com

The information contained herein is, to the best of our knowledge, true and accurate. Any recommendations or suggestions are made without warranty or guarantee as the conditions of use are beyond our control. We strongly recommend that all products containing IscaGuard are rigorously tested to ensure suitability for end-use.

