

Iscaguard BOA

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

INCI declaration
Benzyl alcohol, dehydroacetic acid, benzoic acid, sorbic acid

Iscaguard BOA is a blend of organic acids in benzyl alcohol. It is suitable for formulations with acidic pH, and offers protection against bacteria, yeasts, moulds and fungi. Iscaguard BOA is permitted for use with most Eco labels, and can be used for both leave-on and rinse-off products.

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 BOA 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 BOA 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 BOA is not to be used in aerosol dispensers (sprays) under the Cosmetic Regulation.

Minimum Inhibitory Concentrations	
Microorganism	MIC (%)
Bacteria (gram-negative)	
Pseudomonas aeruginosa	0.25
Escherichia coli	0.06
Proteus vulgaris	0.24
Bacteria (gram-positive)	
Staphylococcus aureus	0.21
Bacillus cerus	0.21
Enterococcus faecium	0.21

Minimum Inhibitory Concentrations	
Microorganism	MIC (%)
Yeasts	
Candida albicans	0.13
Saccharomyces cerevisiae	0.11
Moulds	
Aspergillus niger	0.13

Physical Properties (approximate)	
Appearance	Light yellow liquid
Odour	Faint
Density	1.07 gcm ⁻³

Physical Properties (approximate)	
Flash point	96°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	Danger
Hazard statements	H318 Causes serious eye damage. H302 Harmful if swallowed H332 Harmful if inhaled H315 Causes skin irritation. H373 May cause damage to lungs through prolonged or repeated exposure.



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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.

