

Iscaguard PBA

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

INCI declaration
Benzyl alcohol, methylparaben, propylparaben

Iscaguard PBA is a blend of paraben esters in benzyl alcohol. It is a broad spectrum preservative with high efficacy, supplied in liquid form for ease of use. Iscaguard PBA can be used in wide variety of formulations, but has been shown to be particularly effective in sun care products and wet wipes.

In Use Concentrations	ISCA recommendation	EU Cosmetic Regulation (max)
Leave-on	0.4 - 0.8 %	1.36 %
Rinse-off	0.4 - 0.8 %	1.36 %

Not to be used in leave-on products designed for application on the nappy area of children under 3 years of age. Leave-on products designed for children under 3 years of age must be labelled "Do not use on the nappy area"

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 – 8
Solubility (Water)	0.5 % (approx.)
Solubility (Glycols)	Miscible
Maximum Process Temperature	80 °C
General information	Iscaguard PBA is soluble in water to approximately 0.5 %. Heating to 40 °C may be required, however, in order to dissolve the product more rapidly in aqueous solutions. Alternatively, Iscaguard PBA may be pre-dissolved in one of the other formulation components, e.g. surfactant or organic solvent. Iscaguard PBA should be added during the cooling stage of hot processes in order to minimise any loss of benzyl alcohol.

Minimum Inhibitory Concentrations	
Microorganism	MIC (%)
Bacteria (gram-negative)	
Pseudomonas aeruginosa	0.30
Escherichia coli	0.20
Proteus vulgaris	0.25
Bacteria (gram-positive)	
Staphylococcus aureus	0.20
Bacillus cerus	0.15
Enterococcus faecium	0.25

Minimum Inhibitory Concentrations	
Microorganism	MIC (%)
Yeasts	
Candida albicans	0.15
Saccharomyces cerevisiae	0.19
Moulds	
Aspergillus niger	0.15


Physical Properties (approximate)	
Appearance	Clear to off-white liquid
Odour	Mild aromatic
Density	1.08 gcm ⁻³

Physical Properties (approximate)	
Flash point	> 100 °C
Solubility in water	0.5 %
Solubility in glycols	Miscible

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	Warning
Hazard statements	H302 Harmful if swallowed H332 Harmful if inhaled



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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.

