

Iscaguard MEP

Paraben Free	Thiazolinone Free	Formaldehyde Free	Preservative Free	Natural
No	Yes	Yes	No	No

INCI declaration	
Phenoxyethanol, methylparaben, propylparaben, ethylparaben	

Iscaguard MEP is a blend of paraben esters in phenoxyethanol. With high efficacy, a broad spectrum of activity and a wide pH use range, Iscaguard MEP is the perfect choice for many personal care applications.

In Use Concentrations	ISCA recommendation	EU Cosmetic Regulation (max)
Leave-on	0.3 – 0.8 %	1.35 %
Rinse-off	0.3 – 0.8 %	1.35 %

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 %
Solubility (Glycols)	Miscible
Maximum Process Temperature	80 °C
General information	Iscaguard MEP is compatible with most personal care ingredients. The presence of phenoxyethanol reduces, or overcomes the inactivation of parabens by some non-ionic emulsifiers when parabens are used alone. In formulations with a high protein content, it may be necessary to use a higher concentration of Iscaguard MEP.

Minimum Inhibitory Concentrations	
Microorganism	MIC (%)
Bacteria (gram-negative)	
Pseudomonas aeruginosa	0.1
Escherichia coli	0.2
Bacteria (gram-positive)	
Staphylococcus aureus	0.2

Minimum Inhibitory Concentrations	
Microorganism	MIC (%)
Yeasts	
Candida albicans	0.1
Moulds	
Aspergillus brasiliensis	0.1

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


Physical Properties (approximate)	
Solubility in water	0.5 %
Solubility in glycols	Miscible

Safety information

Cosmetic Regulation labelling requirements

No special labelling requirements.

Transport information	
	IMDG
UN number	-
UN proper shipping name	Not Classified as hazardous for transport.
Transport hazard class	-
Packing group	-
Environmental hazards	-

Hazard classification/labelling	
Hazard pictograms	
Signal word	Warning
Hazard statements	Causes serious eye irritation. Harmful if swallowed.