

Iscaguard VIR

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

INCI declaration
Aqua, Didecylidimonium Chloride, Benzalkonium Chloride

Iscaguard VIR is a multi-functional ingredient for use in cosmetic preparations. An optimised combination of quaternary ammonium compounds, Iscaguard VIR provides broad spectrum antimicrobial protection to formulations, as well as contributing surfactancy, hair conditioning and anti-static properties.

In Use Concentrations	ISCA recommendation	EU Cosmetic Regulation (max)
Leave-on	0.2 – 0.5 %	0.66 %
Rinse-off	0.2 – 0.5 %	0.66 %

Wording of conditions of use and warnings: "Avoid contact with eyes".

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)	Hair Care	Deodorants	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)	4.0 - 8.5
Solubility (Water)	Miscible
Solubility (Glycols)	Partially soluble
Maximum Process Temperature	40 °C
General information	Iscaguard VIR is compatible with most commonly used personal care ingredients, although high levels of anionic materials should be avoided. It is recommended that Iscaguard VIR is added as the last ingredient of the formulation, with low shear rate mixing. Where possible, process temperatures should be kept below 40 °C prior to addition.

Minimum Inhibitory Concentrations	
Microorganism	MIC (%)
Bacteria (gram-negative)	
Pseudomonas aeruginosa	0.05
Escherichia coli	0.02
Bacteria (gram-positive)	
Staphylococcus aureus	0.01

Minimum Inhibitory Concentrations	
Microorganism	MIC (%)
Yeasts	
Candida albicans	0.04
Moulds	
Aspergillus niger	0.02

Physical Properties (approximate)	
Appearance	Clear to light yellow liquid
Colour	< 30 Hazen
Odour	Low

Physical Properties (approximate)	
pH as supplied	4 - 6
Solubility in water	Miscible
Solubility in glycols	Partially soluble

Safety information

Cosmetic Regulation labelling requirements
No special labelling requirements.

Transport information	
UN number	UN 1760
UN proper shipping name	CORROSIVE LIQUID, N.O.S. (contains Alkyl Dimethyl Benzyl Ammonium Chloride)
Transport hazard class	8
Packing group	II
Environmental hazards	Yes

Hazard classification/labelling	
Hazard pictograms	
Signal word	Danger
Hazard statements	H314 Causes severe skin burns and eye damage. H302 Harmful if swallowed. H410 Very toxic to aquatic life with long lasting effects.



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.

