

# Aquaguard 9093

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

INCI declaration
Aqua, Sodium benzoate, Sodium dehydroacetate

Aquaguard 9093 is the latest environmentally friendly preservative from ISCA UK. It is suitable for both leave on and wash off products. Aquaguard 9093 is based on an aqueous dispersion of organic acids, and exhibits a broad spectrum anti-microbial activity. The product is supplied as an easy to use, readily dispersible liquid which is alcohol and solvent free. Aquaguard 9093 is designed for use in skin friendly formulations with pH values up to 6.5.

In Use Concentrations	ISCA recommendation	EU Cosmetic Regulation (max)
Leave-on	0.4 – 1.0 %	2.62 % #
Rinse-off	0.4 – 1.0 %	9.04 % #

# 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)	2.0 – 6.5
Solubility (Water)	Miscible
Solubility (Glycols)	Miscible
Maximum Process Temperature	40 °C
General information	Aquaguard 9093 should not be used in aerosol dispensers (sprays). Aquaguard 9093 is compatible with most personal care ingredients. The product as supplied may change in appearance from yellow to brown on storage, but no further discolouration occurs when it is used in the end product as long as the formulation remains acidic.

Minimum Inhibitory Concentrations	
Microorganism	MIC (%)
<b>Bacteria (gram-negative)</b>	
Pseudomonas aeruginosa	0.44
Escherichia coli	0.40
Proteus vulgaris	0.24
<b>Bacteria (gram-positive)</b>	
Staphylococcus aureus	0.24
Bacillus cerus	0.22
Enterococcus faecium	0.22

Minimum Inhibitory Concentrations	
Microorganism	MIC (%)
<b>Yeasts</b>	
Candida albicans	0.17
Saccharomyces cerevisiae	0.15
<b>Moulds</b>	
Aspergillus niger	0.17


Physical Properties (approximate)	
Appearance	Clear to slight cloudy yellow liquid
Odour	Mild odour
Density	1.17 gcm <sup>-3</sup>

Physical Properties (approximate)	
Solubility in water	Miscible
Solubility in glycols	Miscible
VOC content	0 %

Safety information

Cosmetic Regulation labelling requirements
No special labelling requirements.

Transport information	
	IMDG
UN number	-
UN proper shipping name	Not dangerous goods
Transport hazard class	-
Packing group	-
Environmental hazards	-

Hazard classification/labelling	
Hazard pictograms	
Signal word	Warning
Hazard statements	H302 Harmful if swallowed



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](http://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.

