

# Iscaguard TC6

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

INCI declaration	
Triclosan, Propylene glycol	

Iscaguard TC6 is synergistic liquid concentrate of Triclosan in Propylene glycol. The liquid format negates the issues of handling a dry powder preservative during manufacture, easing its incorporation.

In Use Concentrations	ISCA recommendation	EU Cosmetic Regulation (max)
Leave-on	0.1 – 0.4 %	0.5 %
Rinse-off	0.1 – 0.4 %	0.5 %

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)	4.0 – 9.5
Solubility (Water)	<0.01 % (approx.)
Solubility (Glycols)	Soluble
Maximum Process Temperature	80 °C
General information	-

Minimum Inhibitory Concentrations*	
Microorganism	MIC (ppm)
<b>Bacteria (gram-negative)</b>	
Salmonella enteritidis	0.17
Escherichia coli	0.17
Enterobacter cloacae	0.5
<b>Bacteria (gram-positive)</b>	
Staphylococcus aureus	0.017
Bacillus cerus	5.0
Enterococcus faecium	0.034

Minimum Inhibitory Concentrations*	
Microorganism	MIC (ppm)
<b>Fungi</b>	
Candida albicans	5
Trichophyton rubrum	5
<b>Moulds</b>	
Aspergillus fumigatus	16.7

\*Minimum Inhibitory Concentrations extrapolated from published data for pure Triclosan.

Physical Properties (approximate)	
Appearance	Clear liquid
Odour	Low
Density	1.24 gcm <sup>-3</sup>

Physical Properties (approximate)	
Solubility in water	<0.01 %
Solubility in glycols	Soluble

Safety information

Cosmetic Regulation labelling requirements
No special labelling requirements.

Transport information	
	IMDG
UN number	UN 3082
UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S (2,4,4'-trichloro-2'-hydroxy-diphenyl-ether,5-chloro-2-(2,4-dichlorophenoxy) phenol, triclosan)
Transport hazard class	9
Packing group	III
Environmental hazards	Yes

Hazard classification/labelling	
Hazard pictograms	
Signal word	Irritant, Dangerous for the environment
Hazard statements	R36/38 Irritating to eyes and skin. R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.