

# Iscaguard OPP

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

INCI declaration
Propylene glycol, o-phenylphenol

Iscaguard OPP is a liquid preservative containing o-phenylphenol. This preservative has a wide spectrum of activity, and will tolerate high pH environments, as well as high temperature processing.

In Use Concentrations	ISCA recommendation	EU Cosmetic Regulation (max)
Leave-on	0.2 – 0.37 %	0.37 %
Rinse-off	0.3 – 0.5 %	0.5 %

# Cosmetic products containing o-phenylphenol must be labelled with the warning “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)	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)	3.0 - 14.0
Solubility (Water)	Partially soluble
Solubility (Glycols)	Soluble
Maximum Process Temperature	200 °C
General information	Iscaguard OPP is compatible with most commonly used personal care ingredients. It is very stable at high pH and temperature, making it particularly suitable for use in the production of bar soaps.

The biocidal efficacy of Iscaguard OPP is comparable to Triclosan in a typical handwash formulation.

Biocidal Kill Efficacy (handwash)			
		CFU Reduction (%)	
		30 Seconds	5 Minutes
Triclosan	(as 1.0 % Iscaguard TC6)	>99.99	>99.99
o-Phenylphenol	(as 2.0 % Iscaguard OPP)	99.4	99.79
Control		5.58	7.21

INCI: Aqua, Sodium Laureth Sulfate, Cocamidopropyl Betaine, Sodium Sulfate, Peg-120 Methyl Glucose Dioleate, Preservative, Sodium Chloride

Minimum Inhibitory Concentrations	
Microorganism	MIC (%)
<b>Bacteria (gram-negative)</b>	
Pseudomonas aeruginosa	0.37
Escherichia coli	0.05
<b>Bacteria (gram-positive)</b>	
Staphylococcus aureus	0.08
Bacillus subtilis	0.03

Minimum Inhibitory Concentrations	
Microorganism	MIC (%)
<b>Yeasts</b>	
Candida albicans	0.05
<b>Moulds</b>	
Aspergillus niger	0.02


Physical Properties (approximate)	
Appearance	Clear colourless liquid
Colour	< 5 Hazen
Odour	Low

Physical Properties (approximate)	
pH (1% in water)	6 - 8
Solubility in water	Partially soluble
Solubility in glycols	Soluble

Safety information

Cosmetic Regulation labelling requirements
No special labelling requirements.

Transport information	
UN number	UN 3082
UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains 2-Phenylphenol)
Transport hazard class	9
Packing group	III
Environmental hazards	Yes

Hazard classification/labelling	
Hazard pictograms	
Signal word	Warning
Hazard statements	H315 Causes skin irritation. H319 Causes serious eye irritation. H335 May cause respiratory irritation. H400 Very toxic to aquatic life.



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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.

