

Iscaguard CMI

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

INCI declaration	
Aqua, Methylchloroisothiazolinone and methylisothiazolinone*	

*Main components listed. For full INCI names please contact us.

Iscaguard CMI is a 1.5% solution of a blend of chloromethyl and methyl isothiazolinone in a ratio of 3:1. The mixture is stabilised with magnesium chloride and magnesium nitrate. This isothiazolinone blend is a broad-spectrum preservative with extremely high efficacy at low use levels. It is particularly useful in detergent-based products, such as shower gels, bath foams and shampoos.

In Use Concentrations	ISCA recommendation	EU Cosmetic Regulation (max)
Leave-on	Not permitted	Not permitted
Rinse-off	0.05 – 0.1 %	0.1 %

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 – 8.0
Solubility (Water)	Soluble
Solubility (Glycols)	Soluble (stabilising salts may precipitate)
Maximum Process Temperature	40 °C
General information	Iscaguard CMI is not permitted to be used in addition with other Methylisothiazolinone containing preservatives.

Minimum Inhibitory Concentrations	
Microorganism	MIC (%)
Bacteria (gram-negative)	
Pseudomonas aeruginosa	0.03
Bacteria (gram-positive)	
Staphylococcus aureus	0.02

Minimum Inhibitory Concentrations	
Microorganism	MIC (%)
Yeasts	
Candida albicans	0.03
Moulds	
Aspergillus niger	0.06

Physical Properties (approximate)	
Appearance	Clear to light yellow liquid
Odour	Mild, characteristic
Density	1.06 gcm ⁻³

Physical Properties (approximate)	
pH (10 % in water)	2.0 - 5.0
Solubility in water	Soluble
Solubility in glycols	Soluble (salts may be precipitated)

Safety information

Cosmetic Regulation labelling requirements
No special labelling requirements.

Transport information	
	IMDG
UN number	UN 3265
UN proper shipping name	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (contains 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-4-isothiazolin-3-one)
Transport hazard class	8
Packing group	II
Environmental hazards	No

Hazard classification/labelling	
Hazard pictograms	
Signal word	Danger
Hazard statements	H314 Causes severe skin burns and eye damage H317 May cause an allergic skin reaction H290 May be corrosive to metals H412 Harmful to aquatic life with long-lasting effects



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