

Iscaguard MIT

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

INCI declaration	
Aqua, Methylisothiazolinone	

Iscaguard MIT is a solution of Methylisothiazolinone in pure water, without the addition of Methylchloroisothiazolinone usually found in similar blends. It offers broad spectrum activity at low use levels and is particularly suitable as a replacement for formaldehyde donors in high pH systems.

In Use Concentrations	ISCA recommendation	EU Cosmetic Regulation (max)
Leave-on	-	not permitted
Rinse-off	0.015 %	0.015 %

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)	Miscible
Solubility (Glycols)	Miscible
Maximum Process Temperature	45 °C
General information	Iscaguard MIT should be added as the last ingredient and at the lowest temperature (≤ 45°C if possible)

Minimum Inhibitory Concentrations	
Microorganism	MIC (%)
Bacteria (gram-negative)	
Pseudomonas aeruginosa	0.04
Escherichia coli	0.04
Proteus vulgaris	0.02
Bacteria (gram-positive)	
Staphylococcus aureus	0.03
Bacillus cerus	0.02
Enterococcus faecium	0.04

Minimum Inhibitory Concentrations	
Microorganism	MIC (%)
Yeasts	
Candida albicans	0.32
Saccharomyces cerevisiae	0.35
Moulds	
Aspergillus niger	0.16


Physical Properties (approximate)	
Appearance	Clear to slight yellow liquid
Odour	Mild odour
Density	1.02 gcm ⁻³

Physical Properties (approximate)	
Solubility in water	Miscible
Solubility in glycols	Miscible

Safety information

Cosmetic Regulation labelling requirements
No special labelling requirements.

Transport information	
	IMDG
UN number	2922
UN proper shipping name	CORROSIVE LIQUID, TOXIC, N.O.S. (2-methyl-2Hisothiazol-3-one), ENVIRONMENTALLY HAZARDOUS
Transport hazard class	8 (6.1)
Packing group	II
Environmental hazards	Yes

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 H331 Toxic if inhaled H302 Harmful if swallowed H400 Very toxic to aquatic life H411 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

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