

Iscaguard BA

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

| INCI declaration | |
|------------------|--|
| Benzyl alcohol | |

Iscaguard BA (benzyl alcohol), has broad-spectrum activity against bacteria and fungi, and is particularly effective against the troublesome gram-negative *Pseudomonas* species.

| In Use Concentrations | ISCA recommendation | EU Cosmetic Regulation (max) |
|-----------------------|---------------------|------------------------------|
| Leave-on | 0.7 - 1.0 % | 1.0 % |
| Rinse-off | 0.7 - 1.0 % | 1.0 % |

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 – 8.5 |
| Solubility (Water) | 4 % (approx.) |
| Solubility (Glycols) | Miscible |
| Maximum Process Temperature | 80 °C |
| General information | Iscaguard BA is soluble in water up to approximately 4.0 %, but warming to 40 °C may be useful in order to speed up its dissolution in formulations with a high water content. |

| Minimum Inhibitory Concentrations | |
|-----------------------------------|---------|
| Microorganism | MIC (%) |
| Bacteria (gram-negative) | |
| <i>Pseudomonas aeruginosa</i> | 0.35 |
| <i>Escherichia coli</i> | 0.55 |
| <i>Proteus vulgaris</i> | 0.65 |
| Bacteria (gram-positive) | |
| <i>Staphylococcus aureus</i> | 0.65 |
| <i>Bacillus cerus</i> | 0.75 |
| <i>Enterococcus faecium</i> | 0.95 |

| Minimum Inhibitory Concentrations | |
|-----------------------------------|---------|
| Microorganism | MIC (%) |
| Yeasts | |
| <i>Candida albicans</i> | 0.50 |
| <i>Saccharomyces cerevisiae</i> | 0.37 |
| Moulds | |
| <i>Aspergillus niger</i> | 0.32 |


| Physical Properties (approximate) | |
|-----------------------------------|-------------------------|
| Appearance | Colourless liquid |
| Odour | Mild aromatic |
| Density | 1.045 gcm ⁻³ |

| Physical Properties (approximate) | |
|-----------------------------------|----------|
| Flash point | > 100 °C |
| Solubility in water | 4.0 % |
| Solubility in glycols | Miscible |

Safety information

| Cosmetic Regulation labelling requirements |
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| No special labelling requirements. |

| Transport information | |
|-------------------------|---------------|
| | not regulated |
| UN number | - |
| UN proper shipping name | - |
| Transport hazard class | - |
| Packing group | - |
| Environmental hazards | - |

| Hazard classification/labelling | |
|---------------------------------|---|
| Hazard pictograms |  |
| Signal word | Warning |
| Hazard statements | H302 Harmful if swallowed H332 Harmful if inhaled |