# Iscaguard MPB

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

| INCI declaration |
|---|
| phenoxyethanol, methylparaben, propylparaben, 2-bromo-2-nitropropane-1,3-diol |

Iscaguard MPB is a blend of paraben esters and bronopol in phenoxyethanol. With very high efficacy, a broad spectrum of activity and wide pH use range, Iscaguard MPB is a cost effective option to preserve many types of personal care formulations.

| In Use Concentrations | ISCA recommendation | EU Cosmetic Regulation (max) |
|---|---|---|
| Leave-on | 0.3 – 0.8 % | 1.33 % |
| Rinse-off | 0.3 – 0.8 % | 1.33 % |

# Not to be used in leave-on products designed for application on the nappy area of children under 3 years of age.

Leave-on products designed for children under 3 years of age must be labelled “Do not use on the nappy area”.

In use concentrations vary according to the formulation type and the 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) | Hair care | Deodorants | 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.



Registered office: Nine Mile Point Industrial Estate, Cross Keys, Newport NP11 7HZ
Registered No: 3500179

# Iscaguard MPB

| Formulation guidelines | |
|---|---|
| pH (effective range) | 3 – 9 |
| Solubility (Water) | < 0.5 % |
| Solubility (Glycols) | Miscible |
| Solubility (Glycerin) | 10 % |
| Maximum Process Temperature | 40 °C |
| General information | Iscaguard MPB is sparingly soluble in water. Heating to 40°C may be required in order to dissolve the product more rapidly in aqueous solutions. Alternatively, Iscaguard MPB may be pre-dissolved in one of the other formulation components, e.g. surfactant or organic solvent. Iscaguard MPB should be added during the cooling stage (below 40°C, where possible) of hot processes to avoid preservative loss.<br><br>Amines have the potential to form nitrosamines in finished products, and the presence of bronopol may increase this potential. It is recommended that Iscaguard MPB is not used in formulations containing amines. |

| Minimum Inhibitory Concentrations | |
|---|---|
| Microorganism | MIC (%) |
| Bacteria (gram-negative) | |
| Pseudomonas aeruginosa | 0.32 |
| Escherichia coli | 0.32 |
| Bacteria (gram-positive) | |
| Staphylococcus aureus | 0.21 |
| Bacillus cereus | 0.21 |

| Minimum Inhibitory Concentrations | |
|---|---|
| Microorganism | MIC (%) |
| Yeasts | |
| Candida albicans | 0.12 |
| Saccharomyces cerevisiae | 0.11 |
| Moulds | |
| Aspergillus brasiliensis | 0.14 |





Registered office: Nine Mile Point Industrial Estate, Cross Keys, Newport NP11 7HZ
Registered No: 3500179