

Iscaguard 3258

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

| INCI declaration |
|---|
| Phenoxyethanol, propylene glycol, decylene glycol |

Iscaguard 3258 is a multi-functional ingredient for use in cosmetic preparations. It is a liquid preservative which is effective against bacteria, yeasts and moulds. In addition, Iscaguard 3258 contains a blend of glycolic emollients which improve the skin and hair conditioning properties of a formulation by minimising water loss from the skin, as well as boosting the antimicrobial properties of the preservative.

| In Use Concentrations | ISCA recommendation | EU Cosmetic Regulation (max) |
|-----------------------|---------------------|------------------------------|
| Leave-on | 1.0 – 1.6 % | 2 % |
| Rinse-off | 1.0 – 1.6 % | 2 % |

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 - 9.0 |
| Solubility (Water) | Low water solubility |
| Solubility (Glycols) | Miscible with glycols and alcohols |
| Maximum Process Temperature | 80 °C |
| General information | Iscaguard 3258 is compatible with most commonly used personal care ingredients. Due to its low water solubility, it is advisable to pre-dissolve Iscaguard 3258 into the non-aqueous phase prior to the addition of water. Alternatively, the product may be added prior to any heating stage in order to aid dissolution. |

| Minimum Inhibitory Concentrations | |
|-----------------------------------|---------|
| Microorganism | MIC (%) |
| Bacteria (gram-negative) | |
| Pseudomonas aeruginosa | 0.7 |
| Escherichia coli | 0.7 |
| Bacteria (gram-positive) | |
| Staphylococcus aureus | 0.8 |

| Minimum Inhibitory Concentrations | |
|-----------------------------------|---------|
| Microorganism | MIC (%) |
| Yeasts | |
| Candida albicans | 0.7 |
| Moulds | |
| Aspergillus brasiliens | 0.6 |


| Physical Properties (approximate) | |
|-----------------------------------|-------------------------|
| Appearance | Clear colourless liquid |
| Colour | < 10 Hazen |
| Odour | Mild |
| Density | ~1.05 gcm ⁻³ |

| Physical Properties (approximate) | |
|-----------------------------------|----------------|
| Solubility in water | Low solubility |
| Solubility in glycols | Miscible |

Safety information

| Cosmetic Regulation labelling requirements |
|--|
| 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 | Danger |
| Hazard statements | H318 Causes serious eye damage. |