

# Iscaguard PEHG

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

| INCI declaration                   |
|------------------------------------|
| Phenoxyethanol, ethylhexylglycerin |

Iscaguard PEHG is a blend of Phenoxyethanol with efficacy boosting Ethylhexylglycerin. With its primary registered function being a skin conditioning agent, ethylhexylglycerin improves the quality of cosmetic products while reducing the reliance on preservatives.

| In Use Concentrations | ISCA recommendation | EU Cosmetic Regulation (max) |
|-----------------------|---------------------|------------------------------|
| Leave-on              | 0.5 – 1.0 %         | 1.11 %                       |
| Rinse-off             | 0.5 – 1.0 %         | 1.11 %                       |

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 – 9   |
| Solubility (Water)          | ~1.5 %  |
| Solubility (Glycols)        | Soluble |
| Maximum Process Temperature | 80 °C   |
| General information         | -       |

| Minimum Inhibitory Concentrations |         |
|-----------------------------------|---------|
| Microorganism                     | MIC (%) |
| <b>Bacteria (gram-negative)</b>   |         |
| Pseudomonas aeruginosa            | 0.4     |
| Escherichia coli                  | 0.4     |
| <b>Bacteria (gram-positive)</b>   |         |
| Staphylococcus aureus             | 0.4     |
| MRSA                              | 0.4     |

| Minimum Inhibitory Concentrations |         |
|-----------------------------------|---------|
| Microorganism                     | MIC (%) |
| <b>Yeasts</b>                     |         |
| Candida albicans                  | 0.25    |
| Candida famata                    | 0.25    |
| <b>Moulds</b>                     |         |
| Aspergillus niger                 | 0.25    |

| Physical Properties (approximate) |                        |
|-----------------------------------|------------------------|
| Appearance                        | Clear liquid           |
| Odour                             | Almost odourless       |
| Density                           | ~1.1 gcm <sup>-3</sup> |
| pH (1% in water)                  | 6 - 7                  |


| Physical Properties (approximate) |         |
|-----------------------------------|---------|
| Solubility in water               | 1.5 %   |
| Solubility in ethanol             | Soluble |
| Solubility in glycols             | Soluble |

## 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.<br>H302 Harmful if swallowed.                       |