

## GHL Natural

### Product Bulletin

**INCI Name:** Caprylhydroxamic Acid (and) Glyceryl Heptanoate (and) Propanediol

**General Information:** Ultra-Mild and 100% Natural Complete Preservation System

Spectrastat™ GHL Natural is an optimized combination of multifunctional ingredients that allows formulators to easily create self-preserving formulations. The mildness of Caprylhydroxamic Acid and Glyceryl Heptanoate makes this ingredient system ideal for sensitive skin, facial care, and baby care applications.

- Broad pH range
- Cold processable and liquid format
- Ideal for clear formulations
- Broad spectrum
- Effective in emulsions, surfactant-based products, sunscreens, and wipes/juice formulations
- 100% natural
- Free of parabens, formaldehyde donors, MIT, phenoxyethanol, and other traditional preservatives

Micro summary:

- Controls bacteria (gram +/-), yeast, and mold
- Pass results with industry standard tests: EP-A, USP51, and PCPC
- Pass results with recommended use level at pH 4-8: 0.5 – 2.0% (w/w)

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**How to Use:**

## Recommended Use Level for Preservation:

- O/W Emulsion: 1.0 - 1.5%
- O/W Sunscreens: 1.0 - 2.0%
- Cleansers: 1.5 - 2.0%
- Wipe Juices: 1.0 - 1.5%

## Use Instruction:

- For use in cold or hot process
- Mix well before using
- Add to water phase (below 80°C) or during cool down phase (~40°C).

**Patent Information:**

US 8,993,641 and Patent Pending

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