



Hampford Research INC
Handcrafted Solutions For A High-Tech World

BarGuard® OHS
Innovation for the personal care market
FP 5056

General

BarGuard® OHS is a unique, caprylyl glycol based preservative, formulated specifically for use in emulsion based cosmetics.

Caprylyl glycol is a commonly used preservative in personal care. It does, however, have a relatively high melting point, making it difficult to work with. In addition “commodity grade” Caprylyl glycol has limited water solubility, making it an inefficient choice for water based emulsion formulations.

BarGuard® OHS, being a liquid at room temperature, simplifies handling and emulsification into complex formulations. By combining 1,2 octane diol with specialty designed solubilizing agents, the hydrophilic characteristics as much as 50%. This allows formulators to use significantly less material, while still maintaining the desired efficacy.

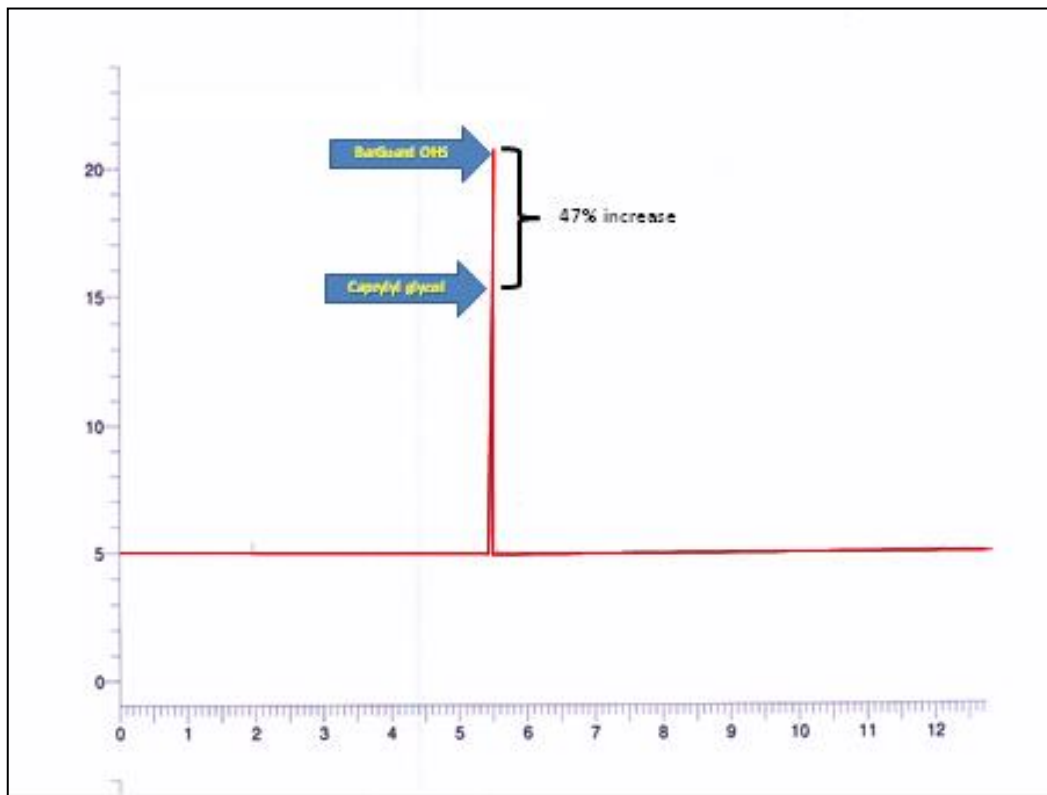
Key Features

- Liquid material- No special handling required
- Broad spectrum efficacy even in the most difficult applications
- Improved water solubility
- Suitable for both leave on and rinse off applications
- Free from hazardous ingredients including paraben, MIT, CIT/MIT and formaldehyde

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Typical properties

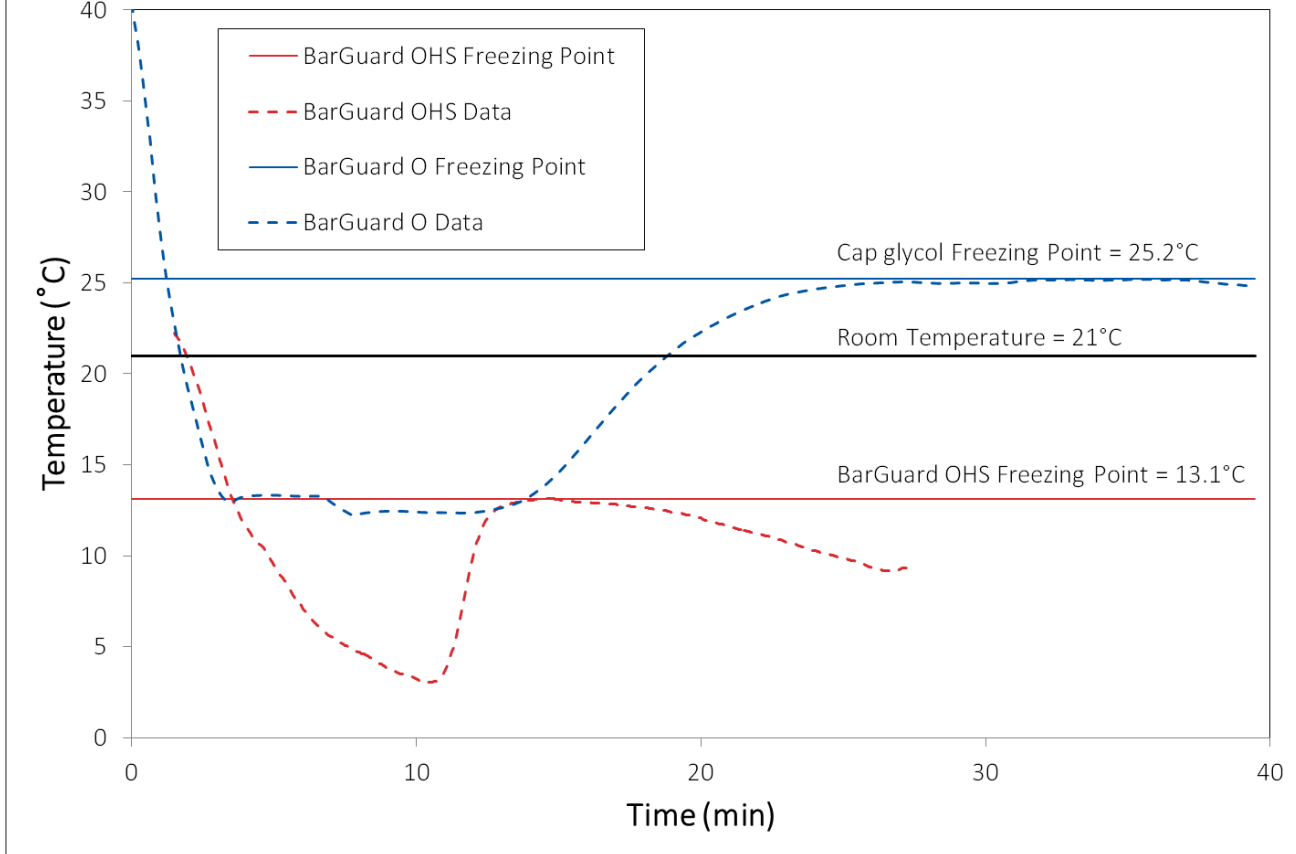
Appearance:	Clear liquid at room temperature
Percent active:	>95% by weight
Water solubility:	> 60% by weight



GC analysis showing improved water solubility of BarGuard OHS vs Caprylyl Glycol

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BarGuard® Freezing Points



Thermal stability analysis: Caprylyl glycol versus BarGuard OHS

For more information, please visit www.hampfordresearch.com

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