

## TECHNICAL DATA SHEET

<b>Trade Name:</b>	<b>Presatil EHGP</b>		
<b>INCI:</b>	Phenoxyethanol, Ethylhexylglycerine		
<b>Cas. No:</b>	122-99-6, 70445-33-9		
<b>EINECS:</b>	408-080-2, 204-589-7	<b>Article No:</b>	331013

ITEM	STANDARD
Appearance	Clear colorless liquid
Density (25°C)	1.07-1.10 g/ml (approx.)
Refractive index	1.510-1.540 (25°C)
pH range	Up to 8.5
Odor	Low
Flash point	>100 °C
Solubility (w/w @ 25°C)	Water 100% (max) Ethanol: soluble Glycols: Soluble

### Minimum Inhibit Concentration (MIC)

Test Organism	Concentration of sample – Presatil EHGP					MIC
	0.25%	0.50%	0.75%	1.0%	1.55	
<i>Pseudomonas aeruginosa</i>	ng	ng	ng	ng	ng	< 0.25%
<i>Escherichia coli</i>	ng	ng	ng	ng	ng	< 0.25%
<i>Staphylococcus aureus</i>	ng	ng	ng	ng	ng	< 0.25%
<i>Aspergillus niger</i>	ng	ng	ng	ng	ng	< 0.25%
<i>Candida albicans</i>	ng	ng	ng	ng	ng	< 0.25%
<i>Salmonella Typhi</i>	ng	ng	ng	ng	ng	< 0.25%

NG: No Growth of Organism at the concentration

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Test Organism	Count at Zero hour	Count at 7 <sup>th</sup> day	Count at 14 <sup>th</sup> day	Count at 21 <sup>st</sup> day	Count at 28 <sup>th</sup> day
<i>Pseudomonas aeruginosa</i>	$1.95 \times 10^5$ cfu/g	< 10 cfu/g	< 10 cfu/g	< 10 cfu/g	< 10 cfu/g
<i>Escherichia coli</i>	$1.95 \times 10^5$ cfu/g	< 10 cfu/g	< 10 cfu/g	< 10 cfu/g	< 10 cfu/g
<i>Staphylococcus aureus</i>	$1.68 \times 10^5$ cfu/g	< 10 cfu/g	< 10 cfu/g	< 10 cfu/g	< 10 cfu/g
<i>Aspergillus niger</i>	$1.80 \times 10^5$ cfu/g	< 10 cfu/g	< 10 cfu/g	< 10 cfu/g	< 10 cfu/g
<i>Candida albicans</i>	$1.70 \times 10^5$ cfu/g	< 10 cfu/g	< 10 cfu/g	< 10 cfu/g	< 10 cfu/g
<i>Salmonella Typhi</i>	$2.10 \times 10^5$ cfu/g	< 10 cfu/g	< 10 cfu/g	< 10 cfu/g	< 10 cfu/g

### Product Description:

**Presatil EHGP** is a cosmetic preservative composed of phenoxyethanol and ethylhexylglycerin. It provides a wide-ranging and well-balanced antimicrobial effect, acting effectively against bacteria, yeast, and mold. Ethylhexylglycerin enhances the efficacy of phenoxyethanol by altering the surface tension at the microbial cell membrane, thereby boosting its preservative performance.

This preservative is especially well-suited for emulsions, as well as oil-based and surfactant-containing formulations. It can also be used in water-based systems, provided the concentration does not exceed its solubility threshold of around 1.0%.

Presatil EHGP can be incorporated into formulations at temperatures up to 80 °C, though extended exposure to high heat should be avoided. It has shown no signs of causing discoloration.

- Compatible with most common ingredients used in personal care formulations
- Demonstrates good stability under typical formulation conditions

### Application:

Hair care: Shampoos, Conditioners and anti-dandruff products  
Skin Care: Creams, lotions, liquid soaps, moisturizers and cold creams  
Sun products: Sunscreen lotions, sprays and cream  
Wipes: Baby wipes and facial wipes  
Raw materials: Surfactants, shampoos blends and conditioner blends

### Storage:

Please keep in original packing at or below room temperature

### Dosage:

According to the Cosmetic Regulation, Presatil EHGP may be used in cosmetic products at concentrations up to 1.11%. In actual formulations, emulsions are typically preserved using 0.5% to 1.0% of Presatil EHGP. Similarly, for wet wipes, effective preservation is achieved within the same concentration range of 0.5% to 1.0%.

### Shelf time:

2 years from manufacturing date