



326 Exchange Drive  
Arlington, Texas 76011  
817-469-7777

## Product Information: SPI-Silguard 30

INCI Name: Ethyl Lauroyl Arginate HCl (and) Octanediol (and) Glycerin

### Description:

Ethyl Lauroyl Arginate HCl, a GRAS preservative, is synthesized from naturally occurring substance lauric acid, L-arginine and ethanol. Due to its cationic surfactant chemical structure, the main characteristic of this molecule is a wide range of antimicrobial property against bacteria (such as Gram positive and Gram negative), molds and yeasts. Consequently, it could be widely used in personal care products. Octanediol is a corrosion synergistic agent, moisturizer and emollients. Straight glycol structure, containing polar and non-polar groups, shows water-dissolved and oil-dissolved properties. It has broad-spectrum antibacterial and bactericidal effect to Gram positive and Gram negative bacteria, molds and yeasts. Due to its special charge distribution, it has unique properties and multi-functionality. The sources of SPI-Silguard 30 is natural, so it is a safe, mild, broad-spectrum antimicrobial and efficient anti-corrosion system. SPI-Silguard 30 is free of formaldehyde and paraben, which can declare no traditional preservatives. Also, it may pass Ecocert, Cosmos, NaTrue corrosive certification. SPI-Silguard 30 has good compatibility and a variety of functions. It is highly biodegradable and environmentally friendly.

CAS No.: 60372-77-2, 1117-86-8, 56-81-5

EC No.: 434-630-6, 214-254-7, 200-289-5

Specification	Typical Properties
Appearance @ 25°C	Colorless to light yellow transparent liquid
Odor	Characteristic Odor
pH (1% solution in water)	3.0 – 5.0
Density (g/cm <sup>3</sup> )	1.0500 – 1.1500
pH @ 25°C	3.0 – 7.0

### Formulation Information:

SPI-Silguard 30 is not fully compatible with natural polymers that contain anionic groups, such as Xanthan Gum or Carbomer, resulting in a reduced ability to preserve the formulation. Under those circumstances, the combination of it with other preservatives may be necessary. SPI-Silguard 30 shows chemical stability at pH range between 3 to 7 and maintains its antimicrobial activity in this interval. SPI-Silguard 30 should be added to the formulation when the temperature is below 60°C or at the same time of adding perfume.

### Applications and Usage:

Widely used in cleansing cream, facial cleanser, cleansing gel, cleansing foam, shower gel, shampoo, baby cleansers, etc. Also suitable for cream, lotion, eye cream, sunscreen, and masks and home care products such as liquid soap, detergent, laundry detergent, etc. Typically used at 0.25 - 4.0%.



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#### Product Features:

- ❖ Mild cationic surfactant, natural sources, safety and low stimulation, highly biodegradable, environmental friendly.
- ❖ Antistatic properties, supple conditioner, soften the hair, improve the gloss of hair, smooth the skin, and assistant emulsifier.
- ❖ Excellent broad spectrum antibacterial activity, can be used as preservatives or preservative auxiliaries to enhance preservative effect, then can be used for the preparation of traditional preservative-free products.
- ❖ Avoid the use of traditional preservatives such as parabens, formaldehyde releasers, reduce the irritation and allergies caused by preservatives.
- ❖ Good solubility in water makes it be added to formulations easily, and its prescription compatibility is good.

#### Special Use and Safe Handling Information:

Read product and safety data sheets before handling this product for physical and health hazard information. The safety data sheet is available from your Silicones Plus products representative, or by emailing a request to [samples@siliconesplus.com](mailto:samples@siliconesplus.com).

#### Shelf Life & Pack Size:

24 months from date of manufacture if stored in a cool, dark, dry area in sealed containers in a 25 kg/drum

*This data is offered in good faith as typical values and not as a Product Specification. No warranty, either expressed or implied, is hereby made. Silicones Plus believes that that information contained in this publication is an accurate description of the typical characteristics and/or uses of this product but it is your responsibility to thoroughly test the product in your specific application to determine its performance, efficacy and safety. Suggestions of uses should not be taken as inducements to infringe any particular patent.*