



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

Product Information: SPI-Silguard 20

INCI Name: Ethyl lauroyl arginate HCl (and) Glycerin

Description:

SPI-Silguard 20 is based on a 20% solution of Ethyl lauroyl arginate HCl in glycerin. It is, a GRAS preservative, synthesized from naturally occurring substance - lauric acid, L-arginine and ethanol. It combines a high antimicrobial efficacy with low toxicity, non-sensitizing and non-skin irritating features. It can provide smoothness to skin and hair because of its cationic nature. 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.

Additionally, SPI-Silguard 20 as food additive, offers a remarkable degree of safety.

SPI-Silguard 20 is a multifunctional innovative product that can be used by the formulators as preservative in personal care products (creams, lotions, body milks, hair conditioners, etc.) and as an active ingredient in soaps, antidandruff shampoos, deodorants and oral care products.

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

EC No.: 434-630-6, 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 ³)	1.1700 – 1.2700
pH @ 25°C	3.0 – 7.0

Formulation Guides:

SPI-Silguard 20 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 20 shows chemical stability at pH range between 3 to 7 and maintains its antimicrobial activity in this interval.

Recommended Dosage:

For common personal care products, except makeup products, oral products and spray products: 0.25 - 2.0%; Soap, dandruff shampoo and spray deodorant: 0.25 - 4.0%.

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.



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Bacterial Strains	ATCC Number	MIC (ug/mL)
Staphylococcus aureus subsp. aureus	ATCC 6538	<249
Escherichia coli	ATCC 8739	1235
Pseudomonas aeruginosa	ATCC 9027	2440
Burkholderia cepacia	ATCC 25416	>20000
Candida albicans	ATCC 10231	<249

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

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