

AMINAT[®]-CP

PRESERVATIVE FOR COSMETICS

INCI Name: Phenoxyethanol (and) Caprylyl glycol (and) Glycerin (and) Ethyl Lauroyl Arginate HCl

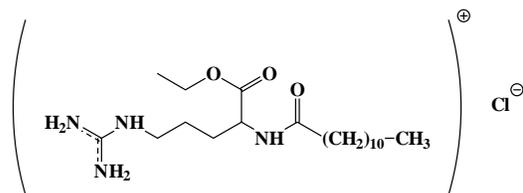
PRODUCT DESCRIPTION

AMINAT-CP is a multifunctional product that can be used by Personal Care formulators as a preservative especially in skin care products such as creams, lotions, body milks. It might also act as preservative in hair care products hair treatments and shampoos. Additionally, it can provide smoothness to skin and hair because of the cationic nature of its main active.

AMINAT-CP is based on a solution of Ethyl Lauroyl Arginate HCl, hereinafter LAE[®], in phenoxyethanol, caprylyl glycol and glycerin.

LAE[®] is a unique antimicrobial active ingredient with cationic surfactant properties derived from natural occurring substances, L-arginine and lauric acid.

Chemical structure:



CAS number: 60372 - 77 - 2

AMINAT-CP incorporates phenoxyethanol as a solvent, which has a well known activity specially against gram- bacteria such as *Pseudomonas spp.*, and caprylyl glycol, which is a moisturising agent with bacteriostatic properties. These two ingredients reinforce synergistically the antimicrobial efficacy of LAE[®], especially in formulations where many anionic ingredients are present.

Appearance	Transparent liquid
pH at 20 °C (68°F) 1% solution	5.7 ± 1.0
Viscosity at 20°C (68°F) (Brookfield RV, sp 1, 20 rpm)	< 225 cPs
Density at 20°C (68°F)	1.06 ± 0.02 g/cm ³
Solubility	Soluble in water, ethanol, glycerine and vegetable oils
pH stability	Stable between 3.0-7.0

Technical data provide further information about the product and are not subject to constant monitoring. Therefore, they are not binding.

APPLICATIONS

Preservative in hair and skin care products

AMINAT-CP is easy to incorporate into personal care formulations as it is a liquid,

which is soluble in water or in fats and oils. This ingredient can be added into emulsions at any stage of the manufacturing process, added into the water phase, the oily phase, during the emulsification process or after cooling down.

AMINAT-CP is a suitable preservative blend in all types of personal care formulations, including those with high content of anionic surfactants, such as shampoos, or anionic thickeners (Carboxymethylcellulose, Xanthan Gum, Bentonite or Carbomer).

AMINAT-CP is a very effective preservative in concentrations of 0.5-1.5% in all kinds of formulations, independently of the existence of anionic raw materials.

Type of formulation	Recommended dosage
Sunscreens	0.5-1 %
Body milks	0.5-1%
Make-up removing milks and liquids	0.25-1%
Facial products	0.5-1%
Shampoos	0.5-1.5%
Hair conditioners	0.25-0.75%

Due to its cationic surfactant properties, LAE[®] provides additional smoothness to hair and skin and improves the skin natural defense against pathogens, besides an excellent compatibility with all formulation ingredients.

REGISTRATION/APPROVAL

- LAE[®]: Regulation (EC) N° 1907/2006 (REACH). Registration number: 01-0000018076-71-0000



- Specific maximum doses allowed for each ingredient of the preservative blend and each particular application depending on countries are available upon request.

TOXICITY INFORMATION

AMINAT-CP has not been tested on animals. However, each of the ingredients has been tested extensively over the years. The ingredients of **AMINAT-CP** have been carefully chosen due to their global acceptance and excellent toxicity properties.

Ethyl Lauroyl Arginate HCl

LAE[®] combines a high antimicrobial efficacy with low toxicity, non-sensitizing and non skin irritating features. Additionally, the molecule is rapidly metabolised in the human body by chemical and metabolic pathways, breaking the molecule into natural compounds which are common in the human diet. This LAE[®] feature offers a remarkable degree of safety, being a key factor when the GRAS approval was granted by FDA in US. In many regions, the use of LAE[®] is permitted up to 0.4% in personal care formulations.

Phenoxyethanol

Phenoxyethanol is used in many applications in personal care, and has a characteristic floral aroma. Phenoxyethanol is considered safe as a cosmetic ingredient in the present practices of use and concentration. EU, Brazil and Japan have approved phenoxyethanol at a maximum concentration of 1%, without restrictions for all personal care applications.

Caprylyl glycol

Caprylyl glycol is a cosmetic ingredient with moisturising characteristics, with an outstanding toxicity profile.

PACKAGING

AMINAT-CP is available in 5 or 25 kg packages.

STORAGE AND SHELF LIFE

Keep containers tightly closed when not in use. Store in a dry cool place and avoid temperatures below 4°C (39°F) and above 30°C (86°F).

Under above mentioned conditions, shelf life of the product is of 18 months from production date.

Safety Data Sheet can be supplied if required.
The information contained in this document cannot be taken as basis for guarantee or liability.

Technical data review: 07/04/2011