



MICROSPONGE® C111A Glycolic Acid Delivery System

Description: MICROSPONGE® microparticles that contain 80% by weight of glycolic acid entrapped in the microparticle structure. The Glycolic Acid, also known as hydroxyacetic acid, is a colorless, odorless and hygroscopic crystalline solid.

MICROSPONGE® is a multifunctional delivery system technology that provides the sustained-release of cosmetic, OTC and Rx actives in formulations. This technology yields effective products that have reduced levels of irritation. MICROSPONGE® C111A helps to exfoliate the skin, remove the outer layer of dead skin and to bring fresh new skin to the surface.

Typical Properties

Composition:	Methyl Methacrylate/Glycol Dimethacrylate Crosspolymer (and) Hydroxyacetic Acid
Appearance:	White to off-white powder
Glycolic Acid Level:	65 – 80%
Water Level:	< 5.0%

Benefits

- Exfoliates the skin, removing outer layer
- Lightens discoloration of the skin, such as sun and age spots
- Aids with acne-prone and blackhead-prone skin
- MICROSPONGE® technology provides sebum control in oily skin.

Formulation Guidelines

MICROSPONGE® C111A Glycolic Acid can be utilized in all personal care formulations including gels (both aqueous and non-aqueous), emulsions (both water-in-oil and oil-in-water), and powder products. The entrapment can be added directly into gel products either before or after addition of thickening agents. When C111A is added into aqueous gels, the pH of the formulation may need to be adjusted since some of the entrapped glycolic acid may release into the formulation. For emulsion products, the entrapment can be added into either the oil or the water phase. The MICROSPONGE® delivery system is not sensitive to shear so the formulation can be homogenized at any required speed without damaging the C111A. Typical use levels of MICROSPONGE® C111A in formulations is from 0.5 to 12.0 %.

Typical Applications

- Facial treatments and skin care products, including cleansers, serums, moisturizers, eye creams, and face peels
- Exfoliating gels and treatments.

Storage Conditions: Store in unopened container under ambient conditions.

Shelf Life: 24 months when stored in proper conditions

