





PRODUCT DATA

ECOPOL-14S CATIONIC GUAR

Substantive Natural Polymer for Hair and Skin Care

CTFA Nomenclature: Guar Hydroxypropyltrimonium Chloride

ECOPOL-14S is a cationic (quaternary) guar gum polymer that provides the dual benefits of conditioning and thickening properties for hair and skin care products. This polymer is derived from renewable vegetable source and has high molecular weight. The moderately substituted cationic charged polymer is substantive to anionic surfaces such as skin and hair.

Specifications. Degree of substitution	Specifications:	Degree of substitution0.12-0.16
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Viscosity, 1% (2h)------3000 - 4000

Moisture (%)------6-10 Odor-----Pass pH, 1% as is------5.0-7.5

Particle Size %, min. through

U.S. Mesh 100------80

Staphylococcus Aureus------Negative Pseudomonas Aeruginosa-----Negative Salmonella-----Negative E. Coli----Negative Plate Count ------500 max

Application: ECOPOL-14S is an ideal polymer for conditioning shampoos,

cream rinse conditioners, lotions, creams and other personal care

products. The cationic charge provides substantivity to hair and skin. The cationic polymer provides excellent conditioning properties and also acts

as the primary viscosifier of a shampoo.

Shampoos: ECOPOL-14S is compatible with most anionic surfactants used

in hair care. A use level of 0.25-0.5% is recommended, based on the

Economy

Polymers & Chemicals

P.O. Box 450246

Houston, TX 77245-0246 USA Toll free: (800) 231-2066

Phone: (713) 723-8416 Fax: (713) 723-1845

URL: www.EconomyPolymers.com

E-mail: economy@economypolymers.com





weight of the final formulation. Alternatively it can be used as a primary viscosifier. A use level of 1.0-1.5% is recommended.

Liquid Soap: ECOPOL-14S can provide a soft and luxurious after-feel to the

skin when used in liquid soaps at a level of 0.5% or less.

Lotions: ECOPOL-14S can easily be added to the water phase of hand,

body, and facial emulsions which will provide the substantivity.

Recommended use levels are 0.5% or less.

Shaving

Creams: Addition of ECOPOL-14S to aerosol shaving creams will give better foam

stability, lather, skin lubrication, skin softening properties, and afterfeel.

Use levels of 0.2% or more are recommended.

Solution ECOPOL-14S is easily dispersible.

Preparation: Disperse the polymer into a container of cold water under good agitation.

Once the polymer is fully dispersed full viscosity will develop in 60

minutes without adjusting solution pH.

Storage: Product should be stored in a cool, dry place.

Product The polymer is a chemically modified natural polysaccharide and is listed

in the CTFA Cosmetic Ingredient Dictionary.

Safety: Please read and understand the Material Safety Data Sheet (MSDS) before

using this product.

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