



## PRODUCT DATA

### ECOPOL-261 CATIONIC GUAR

Substantive Natural Polymer for Hair and Skin Care

**CTFA Nomenclature:** Guar Hydroxypropyltrimonium Chloride

**ECOPOL-261** 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 low substituted cationic charged polymer is substantive to anionic surfaces such as skin and hair.

<b>Specifications:</b>	<b>Degree of substitution-----0.05-0.07</b>
	<b>Viscosity in cps, 1% (2h)-----2000-3000</b>
	<b>Moisture (%)----- 6-10</b>
	<b>Odor-----Pass</b>
	<b>pH, 1% as is-----8.5-11.5</b>
	<b>Particle Size %, min. through</b>
	<b>U.S. Mesh 100-----100</b>
	<b>U.S. Mesh 200-----80</b>
	<b>Staphylococcus Aureus-----Negative</b>
	<b>Pseudomonas Aeruginosa-----Negative</b>
	<b>Salmonella-----Negative</b>
	<b>E. Coli-----Negative</b>
	<b>Plate Count -----500 max</b>

**Application:** ECOPOL-261 is an ideal polymer which provides dual benefits of conditioning and viscosity. The cationic charge provides substantivity to hair and skin. The cationic polymer provides conditioning properties and also acts as the primary viscosifier of a shampoo.

**Shampoos:** ECOPOL-261 is compatible with most anionic surfactants used in hair care. A use level of 0.25-2.0% is recommended, based on the weight of the final formulation. Alternatively it can be used as a primary viscosifier.

**Liquid Soap:** ECOPOL-261 can provide a soft and luxurious afterfeel to the skin when



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used in liquid soaps at a level of 0.25-2.0%

**Lotions:** ECOPOL-261 can easily be added to the water phase of hand, body, and facial emulsions which will provide the substantivity. Recommended use levels are 0.25-2.0%.

**Shaving Creams:** Addition of ECOPOL-261 to aerosol shaving creams will give better foam stability, lather, skin lubrication, skin softening properties, and afterfeel. Use levels of 0.5% or more are recommended.

**Solution Preparation:** ECOPOL-261 is easily dispersible. Disperse the polymer into a container of cold water under good agitation. Once the polymer is fully dispersed full viscosity will develop in 15 minutes to one hour after adjusting solution pH to about 6.5 with Citric Acid.

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

**Product Safety:** The polymer is chemically modified natural polysaccharide and is listed in the CTFA Cosmetic Ingredient Dictionary.

Please read and understand the Material Safety Data Sheet (MSDS) before using this product.

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