



PRODUCT CATEGORY	FEATURES	BENEFITS	APPLICATIONS	NALCO PRODUCTS	DESCRIPTION	INCI/CTFA NAME
Cationic Conditioning Polymers	<ul style="list-style-type: none"> High molecular weight cationic polymer 	<ul style="list-style-type: none"> Superior Slip Reduces tight skin feel Excellent skin feel Excellent lubrication Stable in pH 3 to 7 	<p><u>Hair care</u> Shampoo, Conditioners, Styling Aids</p> <p><i>Typical use level</i> 0.1 to 0.5%</p> <p><u>Skin Care</u> Shaving Cream / Foam</p> <p><i>Typical use level</i> 0.1 to 0.5%</p> <p><u>Personal Lubricants</u></p> <p><i>Typical use level</i> 0.25 to 1.0%</p>	MERQUAT -5	<p>Dry conditioning polymer, Consisting of 4 mole % of (METAMS) and 96 mole % acrylamide.</p> <p>White to light tan powder</p>	Polyquaternium -5
Cationic Conditioning Polymers	<ul style="list-style-type: none"> Highly charged cationic Homopolymers for use in hair and skin care applications 	<ul style="list-style-type: none"> Superior Slip Reduced tight skin feel Reduces static Moisturization benefits Excellent lubrication Enhances foam stability Stable in pH 3 to 12 	<p><u>Hair Care</u> Relaxers, Bleaches, Dyes, Shampoos, Conditioners, Styling Products and Permanent Waves</p> <p><i>Typical use level</i> 0.75 to 3.0%</p> <p><u>Skin Care</u> Moisturizing Creams, Lotions, Bath Gels, Liquid Soaps, Soap Bars, Shaving Products, Antiperspirants and Deodorants</p> <p><i>Typical use level</i> 0.75 to 3.0%</p>	MERQUAT- 100 MERQUAT -106	<p>Highly charged cationic homopolymer of diallyl dimethyl ammonium chloride.</p> <p>Clear to light yellow viscous liquid</p>	Polyquaternium-6
Cationic Conditioning Polymers	<ul style="list-style-type: none"> Highly charged cationic copolymers 	<ul style="list-style-type: none"> Superior Slip Rich, creamy foam Helps hold curls without flaking Improves compatibility clarity in anionic surfactant systems Moisturization benefits Excellent lubrication Enhances foam stability Stable in pH 3 to 12 	<p><u>Hair care</u> Relaxers, Bleaches, Dyes, Shampoos, Conditioners, Styling Products, and Permanent Waves</p> <p><i>Typical use level</i> 0.1 to 2.0%</p> <p><u>Skin Care</u> Moisturizing Creams, Lotions, Bath Gels, Liquid Soaps, Soap Bars, Shaving Products, and Deodorants</p> <p><i>Typical use level</i> 0.1 to 2.0%</p>	MERQUAT -550, MERQUAT 550L, MERQUAT550PR MERQUAT S, MERQUAT 7SPR MERQUAT 740 MERQUAT 2200	<p>Highly charged cationic copolymer of 30 mole % diallyl dimethyl ammonium chloride and 70 mole % acrylamide.</p>	Polyquaternium-7
Cationic Conditioning Polymers	<ul style="list-style-type: none"> Highly charged cationic copolymers demonstrating ampholytic characteristics 	<ul style="list-style-type: none"> Superior Slip Rich, creamy foam Moisturization benefits Excellent lubrication Non-flaking Stable in pH 3 to 12 	<p><u>Hair Care</u> Relaxers, Bleaches, Dyes, Shampoos, Conditioners, Styling Products, Permanent Waves</p> <p><i>Typical use level</i> 0.5 to 2.0%</p> <p><u>Skin Care</u> Moisturizing Creams, Lotions, Bath Gels, Liquid Soaps, Soap Bars, Shaving Products, AP/DEO</p> <p><i>Typical use level</i> 0.5 to 2.0%</p>	MERQUAT 280, MERQUAT 281, MERQUAT 280SD and MERQUAT 295	<p>Highly charged cationic copolymers of diallyl dimethyl ammonium chloride and acrylic acid.</p>	Polyquaternium-22

<p>Cationic Conditioning Polymers</p>	<ul style="list-style-type: none"> Amphoteric terpolymers compatible with anionic & amphoteric surfactants Suited for liquid cleansing products 	<ul style="list-style-type: none"> Superior Slip Reduces tight skin feel Reduces static Helps hold curls without flaking Superior benefits for products with extreme pH ranges Irritation reduction property Enhances foam stability Stable in pH 3 to 12 	<p><u>Hair Care</u> Curl Activators, Bleaches, Dyes, Shampoos, Conditioners, Styling Products, and Permanent Waves</p> <p><i>Typical use level</i> 0.1 to 1.0%</p> <p><u>Skin Care</u> Moisturizing Creams, Lotions, Bath Gels, Liquid Soaps, Soap Bars, Shaving Products, Antiperspirants, Deodorants and Suncare Products</p> <p><i>Typical use level</i> 0.1 to 1.0%</p>	<p>MERQUAT PLU-S 3330, MERQUAT-PLUS 3331, MERQUAT-3330PR, MERQUAT-3331PR, MERQUAT- 3333, MERQUAT- 3940 MERQUAT-3330DRY</p>	<p>Polyquaternium-39 series are terpolymers of acrylic acid, diallyldimethyl ammonium chloride & acrylamide.</p>	<p>Polyquaternium-39</p>
<p>Cationic Conditioning Polymers</p>	<ul style="list-style-type: none"> Ampholytic terpolymer for superior wet hair combing and detangling properties Non-Animal tested variant available 	<ul style="list-style-type: none"> Superior Slip Excellent lubrication Moisturization benefits Compatible with most anionic and amphoteric surfactants Enhances foam stability Stable over a wide pH range. 	<p><u>Hair Care</u> Relaxers, Bleaches, Dyes, Shampoos, Conditioners, Styling Products, and Permanent Waves</p> <p><i>Typical use level</i> 1.0 to 4.0%</p> <p><u>Skin Care</u> Moisturizing Creams, Lotions, Bath Gels, Liquid Soaps, Soap Bars, Shaving Products, Antiperspirants, and Deodorants</p> <p><i>Typical use level</i> 2.0 to 4.0%</p>	<p>MERQUAT 2001 MERQUAT 2001N</p>	<p>Amphoteric terpolymer consisting of 45 mole % acrylic acid, 45 mole % MAPTAC and 10 mole % methyl acrylate.</p> <p>Clear to hazy or pale yellow viscous liquid</p>	<p>Polyquaternium-47</p>
<p>Naturally Derived Cationic Conditioning Polymers</p>	<ul style="list-style-type: none"> Derived from natural cellulosic material Compatible & useful in a broad range of hair & skin care products. 	<ul style="list-style-type: none"> Forms Clear, Uniform and Non-tacky film Enhances foam volume and quality Enhances detangling effect Substantive to skin Stable in pH 3 to 8 	<p><u>Hair Care</u> Shampoo, Conditioners</p> <p><i>Typical use level</i> 0.2 to 0.5%</p> <p><u>Skin Care</u> Body wash, Face wash</p> <p><i>Typical use level</i> 0.2 to 0.5%</p>	<p>MERQUAT- 10</p>	<p>Dry cationic polymer Prepared by reacting trimethyl ammonium substituted epoxide with hydroxyethyl cellulose backbone</p> <p>White to light yellow powder</p>	<p>Polyquaternium-10</p>
<p>Naturally Derived Cationic Conditioning Polymers</p>	<ul style="list-style-type: none"> Naturally derived cationic polysaccharide derived from food grade potato starch Free of environmental toxic residues 	<ul style="list-style-type: none"> Leaves hair soft & natural feeling Excellent detangling and wet combing Improves Rinsability Excellent moisturization Long-term soft and supple skin feel. Excellent Humectancy properties. 	<p><u>Hair Care</u> Shampoos, Conditioners and Styling Aids</p> <p><i>Typical use level</i> 1.0 to 2.0%</p> <p><u>Skin Care</u> Liquid Cleansing Products, Moisturizing Creams & Lotions</p> <p><i>Typical use level</i> 1.0 to 2.0%</p>	<p>SENSOMER CI-50</p>	<p>An aqueous solution naturally derived cationic polysaccharide produced from food grade potato starch.</p> <p>Free of environmental toxic residues.</p>	<p>Starch Hydroxy propyl trimonium Chloride</p>
<p>UV Absorbing Polymer</p>	<ul style="list-style-type: none"> Proprietary polymer developed to provide broad spectrum UV-protection in leave-on and rinse-off hair care applications Provides broad-spectrum UV-A and UV-B protection to hair 	<ul style="list-style-type: none"> Protects the hair fiber structure from both inside and outside against damage caused by sun exposure Maintains the tensile strength of hair after UV exposure Excellent toxicity profile Can be used in Leave-on and Rinse-off applications Stable in pH 3.3 to 12 	<p><u>Hair Care</u> Shampoos, conditioners and hair styling products</p> <p><i>Typical use level</i> 1.0 to 2.0%</p>	<p>SOLAMER GR8</p>	<p>Solution polyamide polymer with a structure that contains an internal chromophore and is end-capped with components found in nature.</p> <p>Amber to brown hazy viscous liquid</p>	<p>Polyamide-2</p>

Salt Stabilizer & De-mineralizing Agent for Hair Care	<ul style="list-style-type: none"> • Act as a hard water salt stabilizer and anti-re-deposition agent in shampoos • Lifts and remove hard water and heavy metal salts from hair prior to color treatment 	<ul style="list-style-type: none"> • Lifts hard water minerals from the hair • Effective for iron salts • Prevent discoloration of hair after swimming • Useful in cleansing treatments prior to hair coloring • Stable in pH 3 to 7 	<p><u>Hair Care</u> Shampoos, Conditioners</p> <p><i>Typical use level</i> 2.0 to 4.0%</p>	CG 4500	<p>Aqueous solution of an anionic copolymer consisting of 81 mole % acrylic acid and 19 mole % 2-AMPSA.</p> <p>Clear, colorless to light green to amber viscous solution</p>	Acrylic acid/acrylamidomethyl propane sulfonic acid copolymer
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