



Leadership. Service. Flexibility. Success. **We're going further.**

# Personal Care Product Catalog

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Leadership. Service. Flexibility. Success. **We're going further.**

### **Charting Your Course with Innovative Chemical Solutions**

Pilot Chemical's customized manufacturing solutions have spanned the globe for more than 50 years. Commitment to unique chemical processes and efficient manufacturing are our hallmarks, lending to a storied history of creating the best surfactants in the industry that maximize your new product development opportunities.

We are a dynamic, market-focused and environmentally conscious company that sets the standard of comprehensive chemical dexterity. Between easy access to knowledgeable and reliable assistance from our industry experts through all stages of production, and our well-established distributor network with a record of consistent, efficient delivery, you can depend on Pilot to help lead you to success.

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## Personal Care

At Pilot, our wide variety of anionic, cationic, amphoteric and nonionic surfactant chemistries deliver luxurious foam, mildness and superior cleansing characteristics in shampoo, body wash, bar soap, hand soap, lotion, dental, pet care and skin care applications. These low-color, high-purity performance products help you create the best personal care products.

### Personal Care Cleansers

Alkyl Ether Sulfates				
Product	INCI Name	Physical Form/Activity	Features/Benefits	Application
<b>Calfoam® EA-303</b>	Ammonium Laureth Sulfate (3 Mole EO)	Liquid/26 %	<ul style="list-style-type: none"> <li>Ammonium laureth sulfates should be used with formulations having a pH of 7.0 or below.</li> <li>Calfoam® EA-603 contains ethanol as a solvent.</li> <li>Calfoam® EA-703 offers cost savings over lower active products, but requires special handling and storage capabilities.</li> <li>Sodium laureth sulfates are compatible with high pH formulations.</li> <li>Higher moles of EO may increase skin mildness and flash foaming properties.</li> <li>Calfoam® ES-302HS has high viscosity.</li> <li>Calfoam® ES-603 contains ethanol as a solvent.</li> <li>Calfoam® ES-702, ES-702LD and ES-703 offer cost savings over lower active products, but require special handling and storage capabilities.</li> <li>Calfoam® ES-302LD and ES-702LD are specially processed to achieve extremely low dioxane levels.</li> <li>Calfoam® ES-562 is a high active product with the ease of handling of a low active product and does not contain alcohol.</li> </ul>	Shampoos, personal and pet cleansers, liquid hand soaps, baby wash, bubble bath, facial cleansers
<b>Calfoam® EA-603</b>	Ammonium Laureth Sulfate (3 Mole EO)	Liquid/60%		
<b>Calfoam® EA-703</b>	Ammonium Laureth Sulfate (3 Mole EO)	Liquid/70%		
<b>Calfoam® ES-301</b>	Sodium Laureth Sulfate (1 Mole EO)	Liquid/26%		
<b>Calfoam® ES-302</b>	Sodium Laureth Sulfate (2 Mole EO)	Liquid/27%		
<b>Calfoam® ES-302HS</b>	Sodium Laureth Sulfate (2 Mole EO)	Liquid/27%		
<b>Calfoam® ES-302LD</b>	Sodium Laureth Sulfate (2 Mole EO)	Liquid/27%		
<b>Calfoam® ES-303</b>	Sodium Laureth Sulfate (3 Mole EO)	Liquid/28%		
<b>Calfoam® ES-562</b>	Sodium Laureth Sulfate	Liquid/55%		
<b>Calfoam® ES-702</b>	Sodium Laureth Sulfate (2 Mole EO)	Liquid/70%		
<b>Calfoam® ES-702LD</b>	Sodium Laureth Sulfate (2 Mole EO)	Liquid/70%		
<b>Calfoam® ES-703</b>	Sodium Laureth Sulfate (3 Mole EO)	Liquid/70%		

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# Personal Care



## Personal Care Cleansers

Alkyl Sulfates				
Calfoam® lauryl sulfates are biodegradable anionic surfactants derived from renewable vegetable resources. They have excellent cleansing and foaming properties. They produce creamy lather; copious high flash foam; soft and silky after-feel properties; and provide excellent viscosity response with amides, betaines and salts.				
Product	INCI Name	Physical Form/Activity	Features/Benefits	Application
Calfoam® ALS-30	Ammonium Lauryl Sulfate	Liquid/30%	<ul style="list-style-type: none"> <li>Calfoam® ALS-30 should be used with formulations having a pH of 7.0 or below.</li> <li>Calfoam® SLS-30 and TLS-40 are compatible with lower and high pH formulations.</li> <li>Calfoam® TLS-40 offers higher activity, increased mildness and clarity at lower temperatures. Lower viscosity and foam responses with amides, betaines and salts, compared to SLS and ALS.</li> </ul>	Shampoos, personal and pet cleansers, liquid hand soaps
Calfoam® SLS-30	Sodium Lauryl Sulfate	Liquid/30%		
Calfoam® TLS-40	TEA Lauryl Sulfate	Liquid/40%		

Alkanolamides				
Pilot's alkanolamides are biodegradable, naturally derived, 100% active 1:1 super amides which provide foam boosting, foam stabilization and viscosity building properties in personal care products. They also offer multiple lubrication and emulsification characteristics.				
Product	INCI Name	Physical Form/Activity	Features/Benefits	Application
Calamide® C	Cocamide DEA	Liquid/100%	Calamide® C is a clear amide used for viscosity building and foam stabilization.	Shampoos, personal and pet cleansers, liquid hand soaps, baby wash, bubble bath, facial cleansers"
Calamide® F	Modified Oleamide DEA	Liquid/100%	Calamide® F provides maximum viscosity performance in personal care formulations.	
Calamide® O	Cocamide DEA, Oleamide DEA, Cocamide MEA	Liquid/100%	Calamide® O provides outstanding viscosity-building properties	
Calamide® MC	Cocamide MEA	Flake/100%	Calamide® MC is an amide with some emollient and lubrication characteristics. Requires heat to bring product to a liquid state.	
Masamide® R-4	PEG-4 Rapeseedamide	Liquid/90%	A unique thickening, foam boosting and stabilizing, and solubilizing agent, free of diethanolamine and nitrosamine, and high biodegradability and low aquatic toxicity	

## Personal Care Cleansers

Performance Blends				
CalBlend® products are pre-formulated performance blends. Simply mix with water to the preferred active level, then add preservative, fragrance and dye to obtain a finished product ready for packaging. CalBlend® products offer formulators convenience and reduction of production errors and inventory.				
Product	INCI Name	Physical Form/Solids	Features/Benefits	Application
<b>CalBlend® CLEAR</b>	Sodium Laureth Sulfate, Cocamidopropyl Betaine, Cocamide DEA	Liquid/35%	CalBlend® CLEAR is a clear, high-foaming performance blend with good foam stability, excellent lather, high flash foam and great cleansing properties. All surfactants in CalBlend® CLEAR are biodegradable.	General hand soaps for pump and foam dispensers, body wash, and pet care products
<b>CalBlend® ECO-1</b>	Sodium Lauryl Sulfate, Sodium Laureth Sulfate, Cocamide MEA, Cocamidopropyl Betaine	Liquid/35%	CalBlend® ECO-1 is an environmentally and economically friendly performance blend that is biodegradable. Offers excellent cleansing, viscosity, flash foam, luxurious lather and skin mildness characteristics.	Shampoos, body wash, pet care products and hand soaps
<b>CalBlend® DF</b>	Sodium Laureth Sulfate, Sodium Lauryl Sulfate, Cocamidopropyl Betaine, Cocamide MIPA	Liquid/33%	DEA free blend that produces formulations which easily build viscosity levels, while yielding premium instant flash foam. CalBlend® DF is environmentally friendly, VOC-free, and solvent-free. Offers deep cleansing and leaves a silky afterfeel.	Shampoo, body wash, liquid hand soap, and pet shampoo
<b>CalBlend® MILD</b>	Sodium Laureth Sulfate, PEG-80 Sorbitan Laurate, Lauramidopropyl Betaine, PEG-150 Distearate	Liquid/38%	Ultra-mild optimized blend of gentle foaming and cleansing agents with excellent viscosity characteristics, low eye irritation, contains no solvents, is naturally derived, DEA-free, and VOC-free.	Baby shampoo, baby bath, puppy shampoo, ultra-mild personal and pet care applications
<b>CalBlend® SF</b>	Sodium C14-16 Olefin Sulfonate, Cocamidopropyl Betaine, Cocamide MIPA	Liquid/40%	Sulfate-Free, Dioxane-Free performance blend that offers excellent viscosity building while producing a creamy lather with a soft after feel, and is DEA-Free.	Shampoo, body wash, liquid hand soap, and pet shampoo
<b>CalBlend® PEARL</b>	Sodium Laureth Sulfate, Cocamidopropyl Betaine, Cocamide DEA, EGMS	Liquid/36%	CalBlend® PEARL is a ready-to-use pearlescent, high-foaming performance blend with good foam stability, excellent lather, flash foam and great cleansing properties. All surfactants in CalBlend® PEARL are biodegradable.	Pearlescent body wash, shampoos, and hand soaps
<b>Masamide® REP</b>	Surfactant Blend	Liquid/36%	High foaming thickener with excellent wetting, detergency, and foaming characteristics. Displays great solubility and stability in alkaline and high electrolyte systems and is 1,4 Dioxane Free. This multifunctional blend can be used as a stand-alone surfactant or with amphoteric, nonionic, cationic, and anionic surfactants.	Body Wash, Shampoo, Facial Cleansers, Hand Soap

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# Personal Care



## Personal Care Cleansers

Sulfonates				
Calsoft® sulfonates produce economical, sulfate-free personal care formulations with excellent cleansing, high foam volume, great flash foam and nice viscosity characteristics. They are fully compatible with anionic, nonionic and amphoteric surfactants.				
Product	INCI Name	Physical Form/Activity	Features/Benefits	Application
<b>Calsoft® AOS-40</b>	Sodium C14-16 Olefin Sulfonate	Liquid/40%	Olefin sulfonates produce sulfate-free and economical personal care formulas with excellent cleansing, foam volume, flash foam and viscosity characteristics over a broad pH range.	Shampoos, hand soaps, personal and pet cleansers
<b>Calsoft® T-60</b>	Triethanolamine Dodecylbenzene Sulfonate	Liquid/60%	Triethanolamine alkyl benzene sulfonates provide a high surfactant activity with excellent cleansing properties. Great solubilizer for perfumes.	Personal and pet care shampoos and cleansers

Specialty Products				
Pilot's specialty products offer excellent mildness, lather, foam stability and viscosity-building characteristics in numerous personal care and sulfate-free formulations. They are biodegradable and derived from natural vegetable resources.				
Product	INCI Name	Physical Form/Activity	Features/Benefits	Application
<b>Calinate® LE</b>	Disodium Laureth Sulfosuccinate	Liquid/40%	Calinate® LE is a cleansing agent with exceptional mildness and creamy lather characteristics, that will not remove the essential oils from the hair and skin. Produces sulfate-free formulations with good foam properties and good viscosity response to amides, betaines and salts. Biodegradable and derived from renewable vegetable resources.	Bubble bath, facial cleansers, syndet bars, sulfate-free products, baby wash, shampoos, body wash
<b>Macat® AEC-126</b>	Laureth-6 Carboxylic Acid	Liquid/90%	Recommended for mildness, efficient foaming, wetting and cleansing. Used in high foaming anionic systems for mildness and oil solubilization.	Shampoos, 2-in-1 conditioning shampoos, and hand soaps
<b>Masoteric® 160C-30</b>	Sodium Lauriminodipropionate	Liquid/30%	A salt-free, multi-functional amphoteric surfactant characterized by hydrolytic stability and its ability to couple nonionic surfactants into strong electrolyte solutions along with exceptional foaming, detergency, solubilizing and emulsification properties.	Waterless hand and cosmetic skin cleaners, conditioning shampoos, aerosol shave creams and as an emulsifier in creams and lotions

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## Personal Care Cleansers

Amine Oxides				
Pilot offers a wide range of naturally derived Amines that produce a mild, creamy lather, and impart conditioning for a soft after feel while providing excellent foam boosting and stabilizing characteristics.				
Product	INCI Name	Physical Form/Activity	Features/Benefits	Application
<b>Macat® AO-14</b>	Myristamine Oxide	Liquid/30%	A naturally plant derived myristyl (C14) dimethylamine oxide in water that provides viscosity control, and is an outstanding foam booster.	Creams, lotions, conditioners, and shampoos
<b>Macat® BD</b>	Behenamidopropyl Dimethylamine	Pastille/100%	Naturally derived Behenamidopropyl Dimethylamine, offering superior conditioning performance and detangling ability, without causing build up on hair	Creams, lotions, conditioners, and rinses
<b>Macat® AO-16</b>	Palmitamine Oxide	Liquid/30%	A naturally plant derived cetyl (C16) dimethylamine oxide in water that provides viscosity control, and is an outstanding foam booster.	Creams, lotions, conditioners, and shampoos
<b>Macat® AO-18:1</b>	Oleamine Oxide	Liquid-Gel/30%	A naturally plant derived oetyl (C18:1) dimethylamine oxide in water that provides viscosity control, and is an outstanding foam booster.	Creams, lotions, conditioners, and shampoos
<b>Macat® MCO</b>	C12-18 Alkyldimethyl Amine N-Oxides	Liquid/30%	Naturally plant derived myristyl/cetyl (C12-18) dimethylamine oxide in water that provides viscosity control, and is an outstanding foam booster.	Creams, lotions, conditioners, and shampoos
<b>Macat® Ultra CDO</b>	Cocamidopropylamine Oxide	Liquid/32%	Naturally plant derived coco amidopropyl dimethylamine oxide in water, and is based on the renewable vegetable lipid found in coconut oil.	Shampoo, conditioners, rinses
<b>Macat® AO-12-2</b>	Dihydroxyethyl Cocamine Oxide	Liquid/30%	Provides viscosity control, and is an outstanding foam booster and foam stabilizer. Biodegradable, solvent and VOC free.	Conditioners, creams, shampoo
<b>Macat® AO-12</b>	Lauryl Dimethylamine Oxide	Liquid/30%	Rheology modifier, emulsifier, and cleansing agent with excellent foam boosting/stabilizing characteristics	Shampoo, body wash, bubble bath, cleansers
<b>Macat® Ultra LMDO</b>	Lauramidopropylamine Oxide	Liquid/30%	Naturally plant derived lauryl (C12) amidopropyl dimethylamine oxide in water that provides effective wetting, outstanding foam boosting, grease cutting and thickening properties at low pH.	Shampoos, conditioners, rinses, and skin cleansers
<b>Caloxamine® CPO</b>	Cocamidopropylamine Oxide	Liquid/32%	Caloxamine® CPO is fully compatible with anionic, nonionic and amphoteric surfactants. Provides excellent foam stabilization, copious foam and foam-boosting properties. Offers good viscosity-building and emulsification characteristics. Stable in low and high pH formulations. Biodegradable and derived from renewable vegetable resources.	Bubble bath, facial cleansers, syndet bars, sulfate-free products, baby wash, shampoos, body wash
<b>Caloxamine® LO</b>	Lauramine Oxide	Liquid/30%	Caloxamine® LO is similar to Caloxamine® CPO in applications. It offers great cleansing and good emulsification and viscosity-building characteristics. Fully compatible with anionic, nonionic and amphoteric surfactants. Provides outstanding foam volume, good foam stabilization and foam-boosting properties. Stable in low and high pH formulations. Biodegradable and derived from renewable vegetable resources.	Bubble bath, facial cleansers, syndet bars, sulfate-free products, baby wash, shampoos, body wash

# Personal Care



## Personal Care Cleansers

Betaines/Sultaines				
Biodegradable viscosity building thickeners offering mild and naturally derived foam boosting, enhancing, and stabilizing characteristics built to enhance your Personal Care product line. Available in various alkyl chains and active levels. Compatible with a wide range of primary surfactants.				
Product	INCI Name	Physical Form/Activity	Features/Benefits	Application
<b>Macat® Ultra CG</b>	Cocamidopropyl Betaine	Liquid/30%	Classic zwitterion surfactant, used as an exceptionally mild cleansing agent, skin conditioner, foam booster and thickener, and is based on the renewable vegetable lipid found in coconut oil, retaining the natural humectancy of glycerin.	Shampoo, conditioners, and rinses
<b>Caltaine® C-35</b>	Cocamidopropyl Betaine	Liquid/30%	Caltaine® C-35 is a mild, viscosity-building and foam-boosting agent typically used as a secondary surfactant in numerous personal care applications. Fully compatible with anionic, nonionic and amphoteric surfactants. Provides outstanding foam, foam stabilization and viscosity-building properties. Biodegradable and derived from renewable vegetable resources.	Bubble bath, facial cleansers, syndet bars, sulfate-free products, baby wash, shampoos, body wash
<b>Macat® LB</b>	Lauryl Betaine	Liquid/30%	Naturally plant derived lauryl (C12)dimethyl betaines in water that provides good detergency and coupling performance, with exceptional mildness to skin.	Shampoos, conditioners, rinses, and skin cleansers
<b>Caltaine® L-35</b>	Lauramidopropyl Betaine	Liquid/30%	Caltaine® L-35 is a mild, amphoteric surfactant with foam stabilizing, foam boosting and viscosity building properties. It offers an excellent lather profile and foam with soft, creamy feel. It is compatible with quats and can be used in 2 in 1 conditioning shampoos that utilize quats as hair conditioners. Biodegradable and derived from renewable vegetable resources.	Bubble bath, facial cleansers, syndet bars, sulfate-free products, baby wash, shampoos, body wash
<b>Macat® LFB</b>	Capryl/Capramidopropyl Betaine	Liquid/30%	Naturally plant derived caprylic/capric (C8/10) amidopropyl dimethyl glycine (betaine) in water that provides good detergency and coupling performance, with exceptional mildness to skin.	Shampoos, conditioners, rinses, and skin cleansers
<b>Macat® CB</b>	Cetyl Betaine	Liquid/34%	Naturally plant derived cetyl (C16)dimethyl betaines in water that provides good detergency and coupling performance, with exceptional mildness to skin.	Shampoos, conditioners, rinses, and skin cleansers
<b>Macat® OB</b>	Oleyl Betaine	Liquid/28%	Naturally derived oleyl (C18:1) dimethyl betaine in water that provides good detergency and coupling performance, with exceptional mildness to skin.	Shampoos, conditioners, and creams
<b>Macat® CAP-HS</b>	Cocamidopropyl Hydroxysultaine	Liquid/44%	Derived from coconut oil, commonly used as a replacement for cocamidopropyl betaine. Biodegradable, and contains no solvents or VOCs.	shampoo, body wash, and rinses



## Preservatives & Preservative Alternatives

Preservatives & Preservative Alternatives				
Cost effective preservatives that are stable in a wide range of pH and temperature conditions. Pilot's Personal Care preservatives are compatible with surfactants, emulsifiers, and proteins.				
Product	INCI Name	Physical Form/Activity	Features/Benefits	Application
<b>Enhansys® CG-100</b>	Caprylyl Glycol	Liquid/Solid 100%	Widely regarded as an effective emollient base, that functions as a conditioning ingredient, wetting agent, viscosity modifier and biological stabilizer. Stabilizing and pH control in place of traditional preservatives. Typically used in combination with phenoxyethanol and chloroxylenol.	Hair & skin conditioner and personal care formulations
<b>Enhansys® M-100</b>	Glycereth-2 Cocoate & Benzoic Acid	Liquid/100%	An effective moisturizer and thickener; benzoic acid is useful in pH control. Stabilizing and pH control in place of traditional preservatives. The efficacy of the benzoic acid is enhanced in the presence of proplene glycol	Shampoo, body wash, liquid hand soap, and other personal care formulations
<b>Maguard® H-55</b>	DMDM Hydantoin	Liquid/55%	Versatile and cost effective preservative that provides a high level of antimicrobial activity, inhibiting the growth of bacteria, yeasts and molds. Fully compatible with surfactants, emulsifiers and proteins, and stable over wide pH and temperature ranges for use as a cosmetic preservative.	Shampoos, conditioners, personal scrubbing and cleansing wipes, creams and lotions, sunscreens, raw materials and baby products

## Emollient / Thickener

Specialty Products				
Pilot's specialty Personal Care emollients and thickeners produce mild, thick emulsions, while improving performance across a wide range of applications.				
Product	INCI Name	Physical Form/Activity	Features/Benefits	Application
<b>Masurf® Emulsifying Wax NF</b>	Nonionic Emulsifier	Pastille/100%	Nonionic emulsifier based on mild ingredients that produces thick emulsions without the addition of stiffening waxes at concentrations as low as 5-10%, and shows excellent compatibility in anionic, cationic and nonionic systems, and produce stable emulsions at pH 3-13.	Creams, lotions, conditioner, pomades, sunscreen, ointments, and other emulsions
<b>Macare® OP</b>	Ethylhexyl Palmitate	Liquid/100%	A vegetable derived cosmetic ester designed to impart unique conditioning, emolliency, moisturization, emulsification, thickening, slip, gloss and superfatting in skin and hair care applications. Improves the rub-out, spreading, solubilization and skin feel properties for most cosmetics and pharmaceutical ingredients, as well as influence viscosity and dispersion characteristics.	Creams, lotions, makeup, baby care, sun care preparations, conditioners, deodorant sticks, bath oils, massage oil, hot pour products such as lipsticks, hair care and ethnic hair care.
<b>Macare® G-2C, 7C, 17C</b>	Glycereth Cocoate	Liquid/100%	Non-irritating, thickeners, foam booster/stabilizer, solubilizer, emulsifier, conditioner and emollient free of diethanolamine and nitrosamine.	Liquid soaps, lotions, body washes, shower gels, shampoos, facial cleansers, bubble baths and decorative cosmetics

# Personal Care



## Hair Styling Polymer

Specialty Products				
Specialty Hair Care polymer that imparts volume, soft feel, and dry combability, while providing flexible hold performance and curl retention with humidity resistance with no residue or build up.				
Product	INCI Name	Physical Form/Activity	Features/Benefits	Application
<b>Macare® HP-230</b>	Acrylates Copolymer	Liquid/100%	A low viscosity acrylic emulsion polymer when neutralized delivers a crystal-clear, practically colorless film forming solution that imparts volume, soft feel and dry combability. In addition it provides flexible hold performance and curl retention with humidity resistance and good wash-out removability for no residue or buildup. The emulsion form allows very low viscosities in high water formulations, with molecular weights optimized for humidity resistance, imparting a light, cushiony feel and an enhanced tactile experience in use.	Pump and aerosol mousse hair fixative and styling products, hair sprays, hair gels and styling mousse products.

## Hair Conditioning Quats

Alkyl Trimethyl Ammonium Chlorides				
Pilot's naturally derived cationic surfactants are available in a wide range of active levels, both in flake and liquid form, and impart exceptional conditioning, emulsifying, and emollient properties.				
Product	INCI Name	Physical Form/Activity	Features/Benefits	Application
<b>Maquat® CETAC-30%</b>	Cetrimonium Chloride	Liquid/30%	Naturally plant derived cetyl trimethyl ammonium chloride in water with excellent substantive and anti-static properties that imparts exceptional conditioning, and detangling.	Conditioners, rinses, skin creams and lotions
<b>Maquat® BTMC-25</b>	Behentrimonium Chloride	Flake/25%	Naturally plant derived behenyl trimethyl ammonium chloride offered as a 25% active flake with cetearyl alcohol that imparts exceptional conditioning, wet-comb, detangling, softening, suspending and emulsification.	Conditioners, rinses, skin creams and lotions
<b>Maquat® BTMC-85</b>	Behentrimonium Chloride	Flake/80%	Naturally plant derived behenyl trimethyl ammonium chloride offered as an 80% active flake that imparts exceptional conditioning, wet-comb, detangling, softening, suspending and emulsification.	Conditioners, rinses, skin creams and lotions
<b>Maquat® C-15</b>	PEG-15 Cocomonium Chloride	Liquid/95%	Naturally plant derived cocoalkylmethyl PEG-15 ammonium chloride that provides anti-static, dispersing, hydrotrope, solubilizing and foaming properties	Conditioners and skin creams and lotions
<b>Maquat® OAC</b>	Olealkonium Chloride	Liquid/50%/80%	Naturally derived oleyl dimethylbenzyl ammonium chloride in water/ethanol that provides substantive conditioning, emulsifying and emollient properties.	Conditioners, mousses, styling gels, lotions and creams
<b>Maquat® SC18</b>	Stearalkonium Chloride	Paste/Flake/25%/85%	Naturally plant derived stearyl dimethylbenzyl ammonium chloride in water/ethanol that provides substantive conditioning, emulsifying and emollient properties.	Conditioners, mousses, styling gels, lotions and creams
<b>Maquat® SC1632</b>	Cetearyl Alcohol, PEG 40 Castor Oil, Stearalkonium Chloride	Flake/14%	Naturally plant derived stearalkonium chloride with cetearyl alcohol and PEG 40 Castor Oil that provides substantive conditioning, emulsifying and emollient properties.	Conditioners, Lotions and Creams

## Conditioners

Specialty Products				
Unique conditioning agents, available in a variety of active levels, that impart detangling properties and build volume to enhance a wide range of Personal Care applications.				
Product	INCI Name	Physical Form/Activity	Features/Benefits	Application
<b>Maquat® PQ-100 Series</b>	Polymethacrylamidopropyl Trimonium Chloride	Liquid/30%	An anti-static agent and film former that imparts conditioning, detangling, improved dry comb and fly away, build volume and sheen properties	Conditioners, relaxers, conditioning volumizing shampoos, skin lotions, and styling gels, mousses and sprays
<b>Maquat® PQ-200 Series</b>	Polyquaternium 37	Liquid/30%	An anti-static agent and film former that imparts conditioning, detangling, improved dry comb and fly away, build volume and sheen properties	Conditioners, relaxers, conditioning volumizing shampoos, skin lotions, and styling gels, mousses and sprays
<b>Maquat® SOY-QSX</b>	Soy Trimethoxysilylpropyltrimonium Chloride	Liquid/80%	A unique naturally derived "deep-conditioning" agent that provides a true "Heat Activated" hair conditioning treatment for deep, long lasting conditioning with outstanding curl retention.	Hair straighteners, hair curling and perm formulations, hair conditioners and pet and animal grooming products
<b>Maquat® SL-5</b>	Dihydroxypropyl PEG-5 Linoleammonium Chloride	Liquid/40%	Naturally plant derived dihydroxypropyl PEG-5 linoleammonium chloride in water that has unique substantive, lubricating, detangling, anti-static and anionic compatible foaming properties	2-in-1 shampoos, restorative conditioners, conditioning haircolor, creams and lotions
<b>Mason® CS-445, CS-448</b>	Didecyltrimonium Chloride	Liquid/50%/80%	Naturally plant derived didecyl dimethyl ammonium chloride for use as a cationic surfactant to impart antistatic and conditioning properties.	Conditioners, creams and lotions
<b>Masurf® FS-1620</b>	C4-18 Perfluoroalkylethyl Thiohydroxypropyltrimonium Chloride	Liquid/20%	An ultra efficient stabilizer, hair and skin conditioning agent with superior wetting activity and fast acting antimicrobial, self-preserving activity in nonionic and cationic formulations	Conditioners

Oil Resistant Specialty Products				
Pilot's oil resistant specialty products impart oil and grease resistance, while enhancing conditioning, wetting, and lubricity properties.				
Product	INCI Name	Physical Form/Activity	Features/Benefits	Application
<b>Masurf® FS-115, FS-130</b>	DEA-C8-18 Perfluoroalkylethyl Phosphate	Liquid/15%/30%	Fuoroaliphatic phosphate esters in an aqueous solution that impart oil, grease and sebum resistance, conditioning, wetting and lubricity properties	Make-up, mascara, shampoos and conditioners
<b>Masurf® FS-130A</b>	Ammonium-C6-16 Perfluoroalkylethyl Phosphate	Liquid/30%	Fuoroaliphatic phosphate esters in an aqueous solution that impart oil, grease and sebum resistance, conditioning, wetting and lubricity properties	Make-up, mascara, shampoos and conditioners

# Personal Care



## Alcohol Foamers

Specialty Products		Specialty alcohol and polar organic solvent foamers recommended for a variety of Personal Care foaming applications.		
Product	INCI Name	Physical Form/Activity	Features/Benefits	Application
<b>Masurf® AF-110DE</b>	DEA-C8-18 Perfluoroalkylethyl Phosphate	Liquid/7%	Optimized for foaming alcohol and polar organic solvents. MASURF AF-Series products are recommended for a range of foaming applications.	Alcohol-based hand sanitizers, shampoos, personal cleansers, make-up removers, sunscreen, insect repellent foams, analgesic rubs, antiperspirants, and pet grooming products
<b>Masurf® AF-410TE</b>	TEA-C8-18 Perfluoroalkylethyl Phosphate	Liquid/7%	Optimized for foaming alcohol and polar organic solvents. MASURF AF-Series products are recommended for a range of foaming applications.	
<b>Masurf® AF-110DI</b>	Alcohol Foaming Surfactant	Liquid/7%	Optimized for foaming alcohol and polar organic solvents. MASURF AF-Series products are recommended for a range of foaming applications.	







Leadership. Service. Flexibility. Success. **We're going further.**

## Pilot Operations

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