



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

Personal Care Product Catalog





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Charting Your Course with Innovative Chemical Solutions

Pilot Chemical's customized manufacturing solutions have spanned the globe for more than 70 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 | Calfoam® sodium laureth sulfates are biodegradable anionic surfactants that have great cleansing properties with water hardness tolerance. They are excellent foamers with high flash foam and high viscosity response using amides, betaines and salts. | | | |
|----------------------|---|------------------------|---|---|
| Product | INCI Name | Physical Form/Activity | Features/Benefits | Application |
| Calfoam® ES-301 | Sodium Laureth Sulfate (1 Mole EO) | Liquid/26% | <ul style="list-style-type: none">Sodium laureth sulfates are compatible with high pH formulations.Higher moles of EO may increase skin mildness and flash foaming properties.Calfoam® ES-603 contains ethanol as a solvent.Calfoam® ES-702, and ES-703 offer cost savings over lower active products, but require special handling and storage capabilities.Calfoam® ES-562 is a high active product with the ease of handling of a low active product and does not contain alcohol. | Shampoos, personal and pet cleansers, liquid hand soaps, baby wash, bubble bath, facial cleansers |
| Calfoam® ES-302 | Sodium Laureth Sulfate (2 Mole EO) | Liquid/27% | | |
| Calfoam® ES-302 LD | Sodium Laureth Sulfate (2 Mole EO) | Liquid/27% | | |
| Calfoam® ES-303 | Sodium Laureth Sulfate (3 Mole EO) | Liquid/28% | | |
| Calfoam® ES-562 | Sodium Laureth Sulfate | Liquid/55% | | |
| Calfoam® ES-702 | Sodium Laureth Sulfate (2 Mole EO) | Liquid/70% | | |
| Calfoam® ES-702 LD | Sodium Laureth Sulfate (2 Mole EO) | Liquid/70% | | |
| Calfoam® ES-703 | Sodium Laureth Sulfate (3 Mole EO) | Liquid/70% | | |
| | | | | |
| 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">Calfoam® ALS-30 should be used with formulations having a pH of 7.0 or below.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. | Shampoos, personal and pet cleansers, liquid hand soaps |
| Calfoam® TLS-40 | TEA Lauryl Sulfate | Liquid/40% | | |

Personal Care



Personal Care Cleansers

| 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® 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. | |

| 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 |
| CalBlend® CLEAR | 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 |
| CalBlend® DF | Sodium Laureth Sulfate, Sodium Lauryl Sulfate, Cocamidopropyl Betaine, Cocamide MIPA | Liquid/33% | DEA alternative blend that produces formulations which easily build viscosity levels, while yielding premium instant flash foam. CalBlend® DF is environmentally friendly, VOC alternative, and solvent alternative. Offers deep cleansing and leaves a silky afterfeel. | Shampoo, body wash, liquid hand soap, and pet shampoo |
| CalBlend® ECO-1 | 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 |
| CalBlend® MILD | 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 alternative, and VOC alternative. | Baby shampoo, baby bath, puppy shampoo, ultra-mild personal and pet care applications |
| CalBlend® PXS | Sodium Laureth Sulfate, Sodium Lauryl Sulfate, Glycol Stearate, Cocamidopropyl Betaine, Cocamide MIPA, PEG-46M | Liquid/36% | CalBlend® PXS is a DEA alternative, ready-to-use pearlescent, high-foaming performance blend with good foam stability, excellent lather, flash foam, and great cleansing properties. All surfactants in CalBlend® PXS are biodegradable. | Pearlescent body wash, shampoos, and hand soaps |

Personal Care Cleansers

| Sulfonates | | | | |
|--|--|------------------------|--|--|
| Calsoft® sulfonates produce economical, sulfate alternative 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 |
| Calsoft® AOS-40 | Sodium C14-16 Olefin Sulfonate | Liquid/40% | Olefin sulfonates produce sulfate alternative 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 |
| Calsoft® T-60 | 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 alternative formulations. They are biodegradable and derived from natural vegetable resources. | | | | |
| Product | INCI Name | Physical Form/Activity | Features/Benefits | Application |
| Calinate® LE | 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 alternative 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 alternative products, baby wash, shampoos, body wash |
| Masoteric™ 160C-30 | Sodium Lauriminodipropionate | Liquid/30% | A salt alternative, 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 |
| Masamide® REP | Caprylyl/Capryl Glucoside / Cocamidopropyl Betaine / Lauramine Oxide | Liquid/36% | A mild, high foaming blend of DEA alternative, dioxane alternative and alkanolamide alternative blend of surfactants that can be used for viscosity building and foam stability in personal cleansing formulas such as shampoo, body wash, facial cleanser, and hand soap. Can be used as a replacement for Alkanolamides (particularly Cocamide DEA and other DEA amides listed on Prop. 65) and other thickeners / viscosity builders in personal cleansing products. | Body Wash, Shampoo, Facial Cleansers, Hand Soap |

Personal Care



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 |
| Caloxamine® LO | Lauramine Oxide | Liquid/30% | Caloxamine® LO 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 alternative products, baby wash, shampoos, body wash |
| Macat® AO-12 | Lauryl Dimethylamine Oxide | Liquid/30% | Rheology modifier, emulsifier, and cleansing agent with excellent foam boosting/stabilizing characteristics. | Shampoo, body wash, bubble bath, cleansers |
| Macat® AO-12-2 | Dihydroxyethyl Cocamine Oxide | Liquid/30% | Provides viscosity control, and is an outstanding foam booster and foam stabilizer. Biodegradable, solvent and VOC alternative. | Conditioners, creams, shampoo |
| Macat® AO-14 | 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 |
| Macat® AO-18:1 | 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 |
| Macat® BD | 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 |
| Macat® MCO | 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 |
| Macat® Ultra CDO | 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 |
| Macat® Ultra LMDO | 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 |

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 |
| Caltaine® C-35 | 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 alternative products, baby wash, shampoos, body wash |
| Caltaine® L-35 | 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 alternative products, baby wash, shampoos, body wash |
| Macat® CAP-HS | Cocamidopropyl Hydroxysultaine | Liquid/44% | Derived from coconut oil, commonly used as a replacement for cocamidopropyl betaine. | shampoo, body wash, and rinses |
| Macat® LB | 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 |
| Macat® LFB | 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 |
| Macat® LHS | Lauryl Hydroxysultaine | Liquid/44% | Naturally plant derived lauryl (C12) hydroxysultaine in water that provides effective wetting and detergency, outstanding foam stabilization, and is stable in strongly acid and alkaline systems. | skin conditioners, shampoos, soaps, cosmetics, and baby products. |
| Macat® Ultra CG | 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 |

Personal Care



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 |
| Enhansys® CG-100 | 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 |
| Enhansys® M-100 | 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 |
| Maguard® H-55 | 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 |
| Macare™ G-2C, 17C | 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 |
| Masurf® Emulsifying Wax NF | Cetyl Alcohol/Polysorbate 60 or Cetyl Alcohol/Stearyl Alcohol/ Polysorbate 60 | 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 |

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 |
| Macare™ HP-230 | 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 |
| Maquat® BTMC-35 | Behentrimonium Chloride | Flake/35% | Naturally plant derived behenyl trimethyl ammonium chloride offered as an 35% active flake that imparts exceptional conditioning, wet-comb, detangling, softening, suspending and emulsification. | Conditioners, rinses, skin creams and lotions |
| Maquat® BTMC-85 | 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 |
| Maquat® C-15 | 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 |
| Maquat® CETAC-30 | 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 |
| Maquat® OAC | 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 |
| Maquat® SC-1632 | 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 |
| Maquat® SC18-25 Maquat® SC18-85 | 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 |

Personal Care



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 |
| Mason® CS-445, CS-448 | Didecyldimonium 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 |
| Maquat® SL-5 | 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 |

Index By Name



| Product Name | Type | INCI/Chemical Name | Physical Foam/Activity | Page Number(s) |
|-------------------|---|--|------------------------|----------------|
| Calamide® C | Alkanolamide | Cocamide DEA | Liquid/100% | 3 |
| Calamide® MC | Alkanolamide | Cocamide MEA | Flake/100% | 3 |
| CalBlend® CLEAR | Performance Blend | Sodium Laureth Sulfate (and) Cocamidopropyl Betaine (and) Cocamide DEA | Liquid/35% | 3 |
| CalBlend® DF | Performance Blend | Sodium Laureth Sulfate, Sodium Lauryl Sulfate, Cocamidopropyl Betaine, Cocamide MIPA | Liquid/30% | 3 |
| CalBlend® ECO-1 | Performance Blend | Sodium Lauryl Sulfate (and) Sodium Laureth Sulfate (and) Cocamidopropyl Betaine (and) Cocamide MEA | Liquid/35% | 3 |
| CalBlend® MILD | Performance Blend | Sodium Laureth Sulfate, PEG-80 Sorbitan Laurate, Lauramidopropyl Betaine, PEG-150 Distearate | Liquid/30% | 3 |
| CalBlend® PXS | Performance Blend | Sodium Laureth Sulfate, Sodium Lauryl Sulfate, Glycol Stearate, Cocamidopropyl Betaine, Cocamide MIPA, PEG-46M Betaine | Liquid/36% | 3 |
| Calfoam® ALS-30 | Alcohol/Ether Sulfate | Ammonium Lauryl Sulfate | Liquid/30% | 2 |
| Calfoam® ES-301 | Alcohol/Ether Sulfate | Sodium Laureth Sulfate (1 Mole EO) | Liquid/26% | 2 |
| Calfoam® ES-302 | Alcohol/Ether Sulfate | Sodium Laureth Sulfate (2 Mole EO) | Liquid/27% | 2 |
| Calfoam® ES-303 | Alcohol/Ether Sulfate | Sodium Laureth Sulfate (3 Mole EO) | Liquid/28% | 2 |
| Calfoam® ES-562 | Alcohol/Ether Sulfate | Sodium Laureth Sulfate | Liquid/60% | 2 |
| Calfoam® ES-702 | Alcohol/Ether Sulfate | Sodium Laureth Sulfate (2 Mole EO) | Liquid/70% | 2 |
| Calfoam® ES-703 | Alcohol/Ether Sulfate | Sodium Laureth Sulfate (3 Mole EO) | Liquid/70% | 2 |
| Calfoam® TLS-40 | Alcohol/Ether Sulfate | TEA Lauryl Sulfate | Liquid/40% | 2 |
| Calinate® LE | Mild Specialty | Disodium Laureth Sulfosuccinate | Liquid/40% | 4 |
| Caloxamine® LO | Mild Specialty | Lauramine Oxide | Liquid/30% | 5 |
| Calsoft® AOS-40 | Sulfonate | Sodium C14-16 Alpha Olefin Sulfonate | Liquid/40% | 4 |
| Calsoft® T-60 | Alkyl Benzene Sulfonate | Triethanolamine Dodecylbenzene Sulfonate | Liquid/60% | 4 |
| Caltaine® C-35 | Mild Specialty | Cocamidopropyl Betaine | Liquid/30% | 6 |
| Caltaine® L-35 | Mild Specialty | Lauramidopropyl Betaine | Liquid/30% | 6 |
| Enhansys® CG-100 | Preservative and Preservative Alternative | Caprylyl Glycol | Liquid/Solid 100% | 7 |
| Enhansys® M-100 | Preservative and Preservative Alternative | Glycereth-2 Cocoate & Benzoic Acid | Liquid/100% | 7 |
| Macare™ G-2C, 17C | Specialty | Glycereth Cocoate | Liquid/100% | 7 |
| Macare™ HP-230 | Specialty | Acrylates Copolymer | Liquid/100% | 8 |
| Macat® AO-12 | Amines | Lauryl Dimethylamine Oxide | Liquid/30% | 5 |
| Macat® AO-12-2 | Amines | Dihydroxyethyl Cocamine Oxide | Liquid/30% | 5 |
| Macat® AO-14 | Amines | Myristamine Oxide | Liquid/30% | 5 |
| Macat® AO-18:1 | Amines | Oleamine Oxide | Liquid-Gel/30% | 5 |
| Macat® BD | Amines | Behenamidopropyl Dimethylamine | Pastille/100% | 5 |
| Macat® CAP-HS | Betaines/ Sultaines | Cocamidopropyl Hydroxysultaine | Liquid/44% | 6 |
| Macat® LB | Betaines/ Sultaines | Lauryl Betaine | Liquid/30% | 6 |
| Macat® LFB | Betaines/ Sultaines | Capryl/Capramidopropyl Betaine | Liquid/30% | 6 |

| Product Name | Type | INCI/Chemical Name | Physical Foam/Activity | Page Number(s) |
|------------------------------------|---|--|------------------------|----------------|
| Macat® LHS | Betaines | Lauryl Hydroxysultaine | Liquid/42% | 6 |
| Macat® MCO | Amines | C12-18 Alkyldimethyl Amine N-Oxides | Liquid/30% | 5 |
| Macat® Ultra CDO | Amines | Cocamidopropylamine Oxide | Liquid/32% | 5 |
| Macat® Ultra CG | Betaines/ Sultaines | Cocamidopropyl Betaine | Liquid/30% | 6 |
| Macat® Ultra LMDO | Amines | Lauramidopropylamine Oxide | Liquid/30% | 5 |
| Maguard® H-55 | Preservative and Preservative Alternative | DMDM Hydantoin | Liquid/55% | 7 |
| Maquat® BTMC-35 | Alkyl Trimethyl Ammonium Chlorides | Behentrimonium Chloride | Flake/35% | 8 |
| Maquat® BTMC-85 | Alkyl Trimethyl Ammonium Chlorides | Behentrimonium Chloride | Flake/80% | 8 |
| Maquat® C-15 | Alkyl Dimethyl Benzyl Ammonium Chlorides | PEG-15 Cocomonium Chloride | Liquid/95% | 8 |
| Maquat® CETAC-30 | Alkyl Trimethyl Ammonium Chlorides | Cetrimonium Chloride | Liquid/30% | 8 |
| Maquat® OAC | Alkyl Dimethyl Benzyl Ammonium Chlorides | Olealkonium Chloride | Liquid/50%/80% | 8 |
| Maquat® SC-1632 | Alkyl Dimethyl Benzyl Ammonium Chlorides | Cetearyl Alcohol, PEG 40 Castor Oil, Stearalkonium Chloride | Flake/14% | 8 |
| Maquat® SC18-25 Maquat® SC18-85 | Alkyl Dimethyl Benzyl Ammonium Chlorides | Stearalkonium Chloride | Paste/Flake/25%/85% | 8 |
| Maquat® SL-5 | Specialty | Dihydroxypropyl PEG-5 Linoleammonium Chloride | Liquid/40% | 9 |
| Masamide® R-4 | Alkanolamides | PEG-4 Rapeseedamide | Liquid/90% | 3 |
| Masamide® REP | Performance Blend | Caprylyl/Capryl Glucoside / Cocamidopropyl Betaine / Lauramine Oxide | Liquid/36% | 4 |
| Masoteric™ 160C-30 | Specialty | Sodium Lauriminodipropionate | Liquid/30% | 4 |
| Mason® CS-445 / CS-448 | Specialty | Didecyldimonium Chloride | Liquid/50%/80% | 9 |
| Masurf® Emulsifying Wax NF | Specialty | Cetyl Alcohol/Polysorbate 60 - or - Cetyl Alcohol/Stearyl Alcohol/Polysorbate 60 | Pastille/100% | 7 |



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