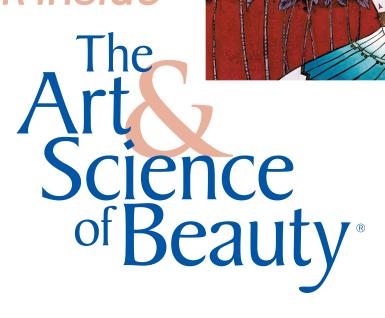
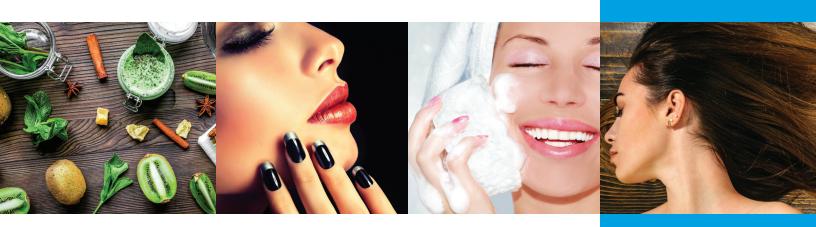




A Look Inside





PRODUCT CATALOG 2019





Phoenix Chemical, Inc. was founded in 1982 with a corporate charter to develop proprietary and unique chemical technology and products for the cosmetic, personal care and OTC pharmaceutical industries.

We are a high-technology industry and customer-oriented company dedicated to product and market development. **Phoenix Chemical Inc.** has grown into a multinational organization with agents worldwide, allowing the company to serve customers internationally.

In January 2017, **Phoenix Chemical, Inc.** relocated its Corporate Research & Development Center to Branchburg, New Jersey. This relocation enabled Phoenix to expand of its offices, organic synthesis, process development, application, analytical and polymer laboratories. The move also encompasses the construction of a kilo laboratory, in-house manufacturing and greatly expanded warehousing capability. Our thrust continues to remain the development unique, innovative and performance driven chemistry.

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PELEMOL® & BIOGEL® 100% Vegetable Derived Esters

Innovative. Sustainable. Vegetable Derived. These products can directly replace and improve upon petroleum based ingredients and provide cosmetics with a real functional edge in the marketplace.

Product	INCI Name	Description
Pelemol 3G22	Polyglyceryl-3 Behenate	Improves rinse off in cleansers. Imparts friction to creams & lotions.
Pelemol 6GPR	Polyglyceryl -6 Polyricinoleate	Pigment wetting and grinding aid for lipsticks.
Pelemol 10GH0	Polyglyceryl-Hexaoleate	Contributes to shine and water resistance in leave-on-conditioners.
Pelemol BB	Behenyl Behenate	Builds viscosity, imparts richness and adds emolliency.
Pelemol BE	Behenyl Erucate	Builds viscosity, imparts richness and adds emolliency.
Pelemol CCC	Coco-Caprylate/Caprate	Leaves skin with soft, luxurious, slightly waxy feel.
Pelemol CP	Cetyl Palmitate	Emollient, thickener for creams, lotions and lipsticks.
Pelemol CCT	Caprylic/Capric Triglyceride	Light viscosity resulting in a smooth, silky emollient feel to skin.
Pelemol CR	Cetyl Ricinoleate	Very lubricious, melts at skin temperature.
Pelemol D3GP	Dimerdilinoleyl Dinlinoleate & Propanediol Dicaprylate/Caprate & Polygylceryl-3 Behenate	Functional equivalent to animal based cholesteryl/ lanosteryl esters used in lipstick.
Pelemol D5R-V	Propandiol Dicaprylate/Caprate & Diisostearyl Malate	Replacement for Cyclomethicone D5. Identical flow, spreadability, softness and cushion on rub-in.
Pelemol DD	Dimer Dilinololeyl Dimer Dilinoleate	Tasteless, odorless and glossy polyester. Excellent for lipsticks.
Pelemol DISD	Diisostearyl Dimer Dilinoleate	Exhibits considerable playtime. Useful in color cosmetics.
Pelemol DO	Decyl Oleate	Leaves a cushion & light waxy residue to leave skin soft & supple.
Pelemol DP-144B	Dipentaerythrityl Tetrabeheante/ Polyhydroxstearic Acid	Holds 3 times its weight in water. Superior lipstick ester.
Pelemol EA	Ethyl Arganate	Extremely dry ester and exhibits spreadability & wetting on skin.
Pelemol EC	Ethyl Canolate	Exhibits a distinct silicone-like feel on skin and much like cyclomethicone D5 and low viscosity silicone fluids.
Pelemol EE	Octyldodecyl Erucate	Dry ester. Very emollient.
Pelemol GMB	Glyceryl Behenate	Emulsifier for creams & lotions. Imparts richness, builds viscosity.
Pelemol GLMA	Glyceryl Laurate	Functions as a conditioner and emulsifying agent.
Pelemol GMR	Glyceryl Ricinoleate	Functions as an emollient, conditioner and emulsifying agent.
Pelemol GTB	Tribehenin	Used in oil phase of creams & lotions. Adds richness & emolliency.
Pelemol GTHS	Trihydroxystearin	Hydrogenated castor oil with no odor or taste.
Pelemol GTIS	Triisostearin	Lubricious, emollient. Good cushion, substantive to the skin.
Pelemol II	Isostearyl Isostearate	Provides shine, spreadability and emolliency to the skin.
Pelemol ISA0	lsostearyl Argan Glycerides	Imparts an elegant texture to skin, non-greasy.
Pelemol ISB	Isostearyl Behenate	Extremely emollient. Melts at skin temperature.
Pelemol ISHS	lsostearyl Hydroxystearate	Mildly occlusive emollient. Glossy. Melts at body temperature.
Pelemol JEC	Triisostearin(and)Glyceryl Behenate	Lubricious soft paste.
Pelemol MM	Myristyl Myristate	Very lubricious emollient, soft wax like ester effectively used to build creaminess and viscosity.
Pelemol MOR-1	Dilinoleic Acid/Propanediol Copolymer (and) Propanediol Dicaprylate/Dicaprate	Ester blend to mimic solubility, viscosity and sensory properties of mineral oils.
Pelemol MOR-3	Dilinoleic Acid/Propanediol Copolymer (and) Propanediol Dicaprylate/Dicaprate	Ester blend to mimic solubility, viscosity and sensory properties of mineral oils.

$PELEMOL^{\circledR} \ \& \ BIOGEL^{\circledR} \ \ 100\% \ Vegetable \ Derived \ Esters$

Product	INCI Name	Description
Pelemol MOR-4	Coco-Caprylate/Caprate(and) Dimer Dilinoleyl Dimer Dilinoleate	Ester blend to mimic solubility, viscosity and sensory properties of mineral oils.
Pelemol MOR-5	Coco-Caprylate/Caprate(and) Dimer Dilinoleyl Dimer Dilinoleate	Ester blend to mimic solubility, viscosity and sensory properties of mineral oils.
Pelemol 0E	Oleyl Erucate	Jojoba oil substitute. Light emollient having good dry down & spreadability.
Pelemol OL	Oleyl Lactate	Alpha-hydroxy acid ester. Leaves skin soft and supple on rub-in.
Pelemol P3D	Dilinoleic Acid/Propanediol Copolymer	Slightly tacky, substantive, glossy and has no taste or odor. Ideal lipsticks and lip balms.
Pelemol P-99	Propanediol Dipelargonate	Water white dry emollient ester. Used as extraction solvent.
Pelemol P-810	Propanediol Dicaprylate/Caprate	Extremely dry ester. Odorless, colorless. Replacement for many synthetically derived esters.
Pelemol P-1263	Polygyceryl-10 Hexaoleate & Polyglyceryl-6 Polyricinoleate	Polymeric water-in-oil emulsifier for creams and lotions.
Pelemol PHS-8	Polyhydroxstearic Acid	Liquid polyester. Substantive, glossy and moisturizing to skin.
Pelemol SB	Stearyl Behenate	Useful in the oil phase of creams and lotions to impart stability, build viscosity, impart richness.
Pelemol Sn0	Stearyl Caprylate	Crystalline solid. Extremely broad solubility range. Occlusive.
Pelemol SR-100	Coco-Caprylate/Caprate(and) Dimer Dilinoleyl Dimer Dilinoleate	Ester replacement for silicone fluids with improved stability and higher refractive index.
Pelemol SR-350	Coco-Caprylate/Caprate(and) Dimer Dilinoleyl Dimer Dilinoleate	Ester replacement for silicone fluids with improved stability and higher refractive index.
Pelemol SR-1000	Coco-Caprylate/Caprate(and) Dimer Dilinoleyl Dimer Dilinoleate	Ester replacement for silicone fluids with improved stability and higher refractive index.
Pelemol SS	Stearyl Stearate	Oil soluble flake, provides richness while building viscosity
Pelemol T-91854	Triisostearyl Trilinoleate	Dark, amber, viscous liquid. Strong properties as a pigment dispersant.
Pelemol TEC	Triethyl Citrate	Silicone-like silkiness feel on the skin. Rubs in to dryness.
Pelemol TISC	Triisostearyl Citrate	Has a degree of hydrophobicity facilitating emulsification and wettability.
Pelemol VL	Dimer Dilinoleyl Dimer Dilinoleate and Triisotearin	Replacement to lanolin oil. Tactile and solubility properties make it suitable as a lanolin replacement.
BIOGEL Argan Butter	Hydrogenated Argania Spinosa Kernal Oil	Delivers intense moisturization. Quick absorption and exquisite feel.
BIOGEL Canola Butter	Hydrogenated Canola Butter	Used as a diluent in soap bars. Ideal emollient for skin conditioning.
BIOGEL Canola Butter/FH	Hydrogenated Canola Oil	White flake. Used as a diluent in soap bars.
BIOGEL Castor/FH	Hydrogenated Castor Oil	Fully hydrogenated flakes.
BIOGEL Moringa Butter	Hydrogenated Moringa Oleifera Seed Oil	Known for its high oxidative stability. Exhibits antibacterial activity.
BIOGEL Olive Butter	Hydrogenated Olive Oil	Excellent spreadability on the skin. Ideal as a massage butter.
BIOGEL VLHS	Dimerdilinoleyl Dimer Dilinoleate (and) Triisostearin (and) Hydroxystearic Acid	Spreads easily on skin resulting in a glossy emollient non-tacky coating.

PELEMOL® Synthetic

Multifunctional properties include pigment wetting, gloss, emolliency, superior cushion, lubricious substantivity, spreadability and moisturization.

Product	INCI Name	Description
Pelemol 89	Ethylhexyl Isononanoate	Very dry emollient. Rubs in to dryness on skin.
Pelemol 108	Isodecyl Ethylhexanoate	Dry, highly branched ester. Resin plasticizer for skin and hair.
Pelemol 168	Cetyl Ethylhexanoate	Very light ester, imparts velvety silky feel to skin.
Pelemol 187	Stearyl Heptanoate	Low melt ester. Provides an emollient cooling effect to skin.
Pelemol 256	C12-15 Alkyl Benzoate	Good wetting agent and solvent.
Pelemol 899	Isononyl Isononanoate(and) Ethylhexyl Isononanoate	Low viscosity ester. Dry feel and light cushion. Reduces tack and improves spreadability.
Pelemol 2014	Octyldodecyl Myristate	Tasteless, odorless and extremely emollient.
Pelemol 2022	Octyldodecyl Behenate	Its silkiness makes it ideal for all color cosmetics.
Pelemol BIP-PC	Butylphthalimide(and) Isopropylphthlaimide	Solvent for avobenzone and oxybenzone. Also functions as a plasticizer for nail lacquers.
Pelemol C25EH	C12-15 Alkyl Ethylhexanoate	Very light, dry ester. Useful for spray fragrances, after shaves.
Pelemol CA	Cetyl Acetate	Very light ester. Ideal for skin preparations.
Pelemol CL	CetylLactate	Provides slip to tacky polymers.
Pelemol D-2000	PPG-26 Dimer Dilinoleate Copolymer	Extremely substantive to skin. Ideal for very transfer resistant products.
Pelemol D5R-1	Ethylhexyl Isononanoate (and) Cetyl Dimethicone	Mimics sensory properties of D5. Has similar solubility characteristics.
Pelemol D-899	PPG-26 Dimer Dilinoleate Copolymer (and) Isononyl Isononanoate (and) Ethylhexyl	Very substantive without the tack, extremely glossy, exhibits outstanding cushion.
Pelemol DIA	Diisopropyl Adipate	Dry, synthetically derived, water white.
Pelemol DIPS	Diisopropyl Sebacate	Hydrophobic, clear, odorless, low viscosity ester.
Pelemol DISA	Diisopropyl Adipate	Oil soluble, light and emollient
Pelemol DISM	Diisostearyl Malate	Light silky emolliency, substantive to the skin, odorless.
Pelemol DP-72	Dipentaerythrityl Tetrahydroxystearate/ Isostearate	Hydrophobic, extremely substantive. Produces glossy lustrous films. Excellent lanolin substitute.
Pelemol G7A	Glycereth-7 Triacetate	Water soluble emollient. Good solvent for esters. Functions as a co-solvent or coupler agent.
Pelemol G7B	Glycereth-7 Benzoate	Blooms heavily in water. Ideal for bath products. Soluble in anionic detergents adding emolliency.
Pelemol G45L	Glycereth-5 Lactate	Coupler for hydro-alcoholic fragrance systems allowing inclusion of water while maintaining clarity.
Pelemol GTAR	Glyceryl Triacetyl Ricinoleate	Highly lubricious, excellent pigment wetting ester. High shine.
Pelemol GTO	Triethylhexanoin	Light, very emollient non tacky ester with light cushion.
Pelemol HCO	Hydrogenated Castor Oil	Used in applications as thickener, pacifier and structurant in stick products.
Pelemol ICB	Isocetyl Behenate	Medium to dry, very emollient ester. Odorless, tasteless.
Pelemol ICO	Isocetyl Ethylhexanoate	Dry emollient ester.
Pelemol ICIS	lsocetyl Isostearate	Dry emollient ester.
Pelemol ICS	Isocetyl Stearate	Lubricious, non-greasy emollient ester. Pigment dispersant.
Pelemol ID0	Isodecyl Oleate	Medium viscosity ester. Imparts sheen to hair.

PELEMOL® Synthetic

Product	INCI Name	Description
Pelemol IN-2	Isononyl Isononanoate	Dry, non-oily, emollient with excellent spreadability.
Pelemol IPIS	lsopropyl lsostearate	Light, almost waxy feel on rub-in and is highly suited for use in massage oils.
Pelemol IPM	Isopropyl Myristate	Colorless, odorless. Ideal for hair preparations and sunscreens.
Pelemol ISHS	lsostearyl Hydroxystearate	Mildly occlusive. Melts at body temperature. Good gloss.
Pelemol ISNP	Isostearyl Neopentanoate	Dry to semi-dry ester. Imparts pleasantly silky feel to skin.
Pelemol I-1816	Isostearyl Palmitate	Excellent aesthetic properties. Produces non-greasy tack free films. Promotes slip with silky after feel.
Pelemol MAR	Methyl Acetyl Ricinoleate	Useful as a light-feel moisture barrier. Low viscosity.
Pelemol ML	Myristyl Lactate	Non-oily, soft waxy, emollient. Low melt point. Velvety feel.
Pelemol NGDIS	Neopentyl Glycol Diisostearate	
Pelemol NPGDD	Neopentylglycol/Dicaprate/ Dicaprylate	Water white, odorless, low viscosity, dry liquid that leaves the skin with a soft after feel with a matte finish.
Pelemol NGDO	Octyldodecyl Ricinoleate	Light emollient ester/solvent. Used as solubilizer and plasticizer for nail enamels.
Pelemol OPG	Ethylhexyl Pelargonate	Very dry emollient. Reduces tackiness in antiperspirant sticks.
Pelemol P-49	Pentaerythrityl Tetraisononanoate	Extremely silky ester, tasteless, odorless, glossy.
Pelemol PTIS	Pentaerythrityl Tetraisostearate	Rapidly absorbed ester. Possesses cushion with slight drag. Extremely bland taste.
Pelemol PTL	Pentaerythrityl Tetralaurate	Soft paste, very hydrophobic, lubricious, substantive to skin.
Pelemol PTO	Pentaerythrityl Tetraethylhexanoate	Clear, silky. Is oil soluble and water insoluble.
Pelemol SP0	Cetearyl Ethylhexnoate	Very emollient, has a broad solubility, leaves skin luxurious.
Pelemol TDE	Tridecyl Erucate	Very light oily feel. Replacement for mineral oil.
Pelemol TGC	Trioctyldodecyl Citrate	Viscous, excellent cushion, pigment wetting & dispersant.
Pelemol TMPIS	Trimethylopropane Triisostearate	Extremely emollient with superior cushion. Modifier for plasticity/melt point of high melt esters.
Pelemol TMP0	Trimethylopropane Triethylhexanoate	${\it Medium to light emollient with exceptional playtime. Hydrophobic \& non-tacky.}$

$\begin{array}{cc} PECOSIL^{\tiny{\circledR}} & \text{Silicone Phosphates} \end{array}$

Product	INCI Name	Description
Pecosil PS-100	Dimethicone PEG-7 Phosphate	Anionic primary o/w emulsifier. Provides manageability and sheen to hair
Pecosil PS-100K	Potassium Dimethicone PEG-7 Phosphate	Potassium salt of PS-100 with more cushion. Primary o/w emulsifier.
Pecosil PS-112	Dimethicone PEG-7 Phosphate	High molecular polymeric analog of PS-100. Contains 12 ionizable phosphate groups.
Pecosil F-112	Perflourononylethyl Carboxydecyl Dimethicone PEG-7 Phosphate	Water soluble oleophobic flourosilicone fluid. Exhibits foaming in water. Useful in shampoos.
Pecosil PS-11220	Dimethicone PEG-20 Phosphate	High molecular weight analog to PS-112. Has 20 Ionizable phosphates.
Pecosil WDS-124	Dimethicone PEG/PPG-12/4 Phosphate	Anionic, can complex with cationic sites on conditioned hair for enhanced sheen. Pigment wetter and dispersant.

$PECOSIL^{\circledR} \quad \text{Silicone Quaternaries \& Panthenol Copolymers}$

Product	INCI Name	Description
Pecosil 36PS	Dilinoleamidopropyl Dimethylamine Dimethicone PEG-7 Phosphate	Functions as an emulsifier for high molecular weight silicone fluids in shampoos.
Pecosil PAN-12	Potassium Dimethicone PEG-7 Panthenyl Phosphate	Provides sheen, manageability, and softness, and also serves to ease both wet- and dry-combing.
Pecosil PAN-1218Q	Steardimonium Hydroxypropyl Panthenyl PEG-7 Dimethicone Phosphate Chloride	Reduces combing forces for both wet and dry hair as well as forming a glossy, light reflective film for added shine. Adds volume to hair.
Pecosil PAN-400	Potassium Dimethicone PEG-7 Panthenyl Phosphate	Suitable for anhydrous systems such as lipsticks, nail treatment and hot oil treatments.
Pecosil PAN-418	Steardimonium Hydroxypropyl Panthenyl PEG-7 Dimethicone Phosphate Chloride	Tetra-panthenol, tetra-quaternary silicone that provides enhanced substantivity, body and sheen to the hair.
Pecosil PSQ-1218	Steardimonium Hydroxypropyl PEG-7 Dimethicone Phosphate Chloride	Provides manageability and superior comb thru properties. Has a strong affinity to hair and skin. Contains 12 phosphate groups.
Pecosil PSQ-418	Steardimonium Hydroxypropyl PEG-7 Dimethicone Phosphate Chloride	Has a strong affinity to hair and skin. Superb conditioning to hair and skin. Superior comb thru properties.
Pecosil SPP-50	Potassium Dimethicone PEG-7 Panthenyl Phosphate	Provides hydration, conditioning and improved wet/dry-comb characteristics to hair.

PECOSIL®

Silicone Gels

Series of gels to deliver a luxurious satin feel and impart a pronounced silky, powdery, satin elegance to the skin. Effective as a lubricant to improve mold release for deodorant sticks, lipsticks and soap bars.

Product	INCI Name	Description
Pecosil G	Dimethicone(and)Cyclomethicone(and) Phenyl Trimethicone(and) Trimethylsiloxysilcate	Clear silicone gel, extraordinary lubricious properties. Tack free, leaves skin satiny, soft.
Pecosil G-5	Dimethicone(and)PhenylMethicone (and)Poly(C30-45)Olefin	Clear silicone gel, extraordinary lubricious properties. Tack free, leaves skin satiny, soft.
Pecosil G-10	Dimethicone(and) Isododecane(and) Trimethylsiloxysilicate(and) Ethylhexyl Hydroxystearate and Poly(C30-45 Olefin	Imparts unique silky, lubricious feel to skin. It's film forming properties make it very suitable for use in massage products.

PECOSIL® Silicone Gels

Product	INCI Name	Description
Pecosil G-62BD	Cyclopentasiloxane(and)Dimethicone/ Vinyl Dimethicone Crosspolymer(and) Behenyl Dimethicone/Bis Vinyldimethicone Crosspolymer	Provides luxurious emolliency, spreadability, and cushion to all skin products. Leaves the skin with a pronounced silky, powdery, light waxy elegance.
Pecosil G-600	Isododecane (and) Vinyl Dimethicone/ Lauryl Dimethicone Crosspolymer (and) Dimethicone (and) Lauryl Dimethicone	Leaves the skin with a pronounced silky, powdery, light waxy elegance. Acts as a moisture barrier that contributes to softness in all make-up, skin and sunscreen products.

$PECOSIL^{\circledR} \quad \text{Silicon Esters and Pigment Coatings}$

 $Hydrophobic \ and \ occlusive \ humectants \ desirable \ in \ skin \ and \ make-up \ formulations.$

Product	INCI Name	Description
Pecosil D3B	Hydroxpropyl Dimethicone Behenate	Provides occlusive barrier on skin to prevent moisture loss. Matte finish for color and promotes transfer resistance.
Pecosil DB	Dimethiconal Behenate	Extremely lubricious and emollient silicone ester.
Pecosil DCL	Dimethicone PEG-7 Lactate	Water soluble, alpha-hydroxy silicone ester. Ideal for bath products.
Pecosil DCU	Dimethicone PEG-7 Undecylenate	Soluble in water and castor oil. Very useful in lipsticks as a coupling agent.
Pecosil C8ES	Octyltriethoxy Silane	Reactive to pigments, providing an alkysilicone hydrophobic coating. Improves pigment dispersibility in organic media.
Pecosil SH-25L	Dimethicone/Methicone Copolymer	Reactive silicone that will bond to pigment surfaces resulting in a covalently bound hydrophobic silicone coating.

PECOSIL® Silicone Fluids

This hydrophobic polydimethylsiloxane wax based series leaves the hair with a shiny, glistening barrier to the hair.

Product	INCI Name	Description
Pecosil ARS-09	Phenyl Isopropyl Dimethicone	Hydrophobic silicone wax. Eliminates syneresis, as lubricants improve mold release for lipstick and soap bars, bonding agents for hot pour or pressed powder and applications where "slip" is desirable, imparting barrier properties to enhance moisturization.
Pecosil ARS-12	Lauryl Phenyl Isopropyl Dimethicone	Liquid hydrophobic silicone wax. Improves mold release.
Pecosil AS-16	Cetyl Dimethicone	Liquid hydrophobic silicone wax. Improves mold release.
Pecosil AS-18	Stearyl Dimethicone	Liquid paste hydrophobic silicone wax. Improves mold release.
Pecosil AS-22	Behenyl Dimethicone	Gel hydrophobic silicone wax. Imparts mold release.
Pecosil AS-26	Cerotyl Dimethicone	Soft hydrophobic silicone wax. Imparts mold release.
Pecosil DCF-12	PEG-12 Dimethicone	Polymeric dimethicone copolyol fluid. Functions as a wetting agent, emulsifier & foam builder.
Pecosil DCF-1818	PEG/PPG-18/18 Dimethicone	Emulsifier, wetting agent for hair conditioners.
Pecosil FST-412	Perflourononylethyl Carboxydecyl Lauryl Dimethicone	Hydrophobic and oleophobic flourosilicone wax.
Pecosil S0-9	PEG-9 Dimethicone/PEG-9 Olive Phosphate	Water soluble moisturizing and conditioning emollient system.

PECOSIL® Flouro Silicone Fluids

Product	INCI Name	Description
Pecosil FDM-30	Perflourononylethyl Carboxydecyl PEG-10 Dimethicone	Water soluble flourosilicone fluid.
Pecosil FSH-150	Perflourononyl Dimethicone	Preferably used in sunscreens for sweat proof products (oil repellency), shampoos and conditioners for sebum control and quick drying. Excellent anti-frizz agents. Promotes lustrous light hair conditioning.
Pecosil FSH-300	Perflourononyl Dimethicone	Excellent anti-frizz agents. Promotes lustrous light hair conditioning
Pecosil FSH-1500	Perflourononyl Dimethicone	Excellent anti-frizz agents. Promotes lustrous light hair conditioning
Pecosil FSL-150	Perflourononyl Dimethicone	Excellent anti-frizz agents. Promotes lustrous light hair conditioning
Pecosil FSL-300	Perflourononyl Dimethicone	Excellent anti-frizz agents. Promotes lustrous light hair conditioning
Pecosil FSU-150	Perflourononyl Dimethicone	Excellent anti-frizz agents. Promotes lustrous light hair conditioning
Pecosil FSU-300	Perflourononyl Dimethicone	Excellent anti-frizz agents. Promotes lustrous light hair conditioning

$\label{eq:constraint} \textbf{DICOPAMINE}^{\circledR} \ \text{Silicones-Organofunctional}$

Product	INCI Name	Description
Dicopamine PC-35	Cetrimonium Chloride & Dimethicone PEG-7 Phosphate	Extremely mild conditioning complex.

PHOENOMULSE® Emulsions and Emulsion Aids

Product	INCI Name	Description
Phoenomulse 100	Water(and)Polyhydroxystearic acid(and) Isononyl Isononanoate(and)Ethylhexyl Isononanoate(and)Sodium Cocamidopropyl PG-Dimonium Chloride Phosphate	Oil-in-water emulsion aid.
Phoenomulse CE-1	Polyhydroxystearic acid (and) Isononyl Isononanoate (and) Ethylhexyl Isononanoate (and) Sodium Cocamidopropyl PG-Dimonium Chloride Phosphate (and) Methyl Perfluorobutyl Ether (and) Methyl Perfluoroisobutyl Ether	CE-1 miscelle destabilizes releasing the fluoro component causing the surfactants in the products base to produce a continuous self-foaming effect. Foam character can be adjusted with surfactant blend modifications.
Phoenomulse CE-5	Water(and) Decafluoropentane (and) Polyhydroxystearic Acid (and) Sodium Cocamidopropyl PG-Dimonium Chloride Phosphate (and) Isononyl Isononanoate (and) Ethylhexyl Isononanoate	CE-5 miscelle destabilizes releasing the fluoro component causing the surfactants in the products base to produce a continuous self-foaming effect. Foam character can be adjusted with surfactant blend modifications.

$PECOGEL @ \ Polymeric \ Cosmetic \ Hydrogels$

Forms a flexible, non-tacky film when dry and the film is slippery when wet. Substantivity to hair and skin while maintaining excellent film properties. Exhibit low solution viscosities and non-pituitous flow behavior.

Product	INCI Name	Description
Pecogel H-12/A	VP/Polycarbamyl Polyglycol Ester	Polymer solution in water. Forms a flexible, non-tacky film. Once film is dry the polymer resists removal when wet. Has fragrance holding and slow release properties when mild heat and moisture are present.
Pecogel H-115/A	VP/Polycarbamyl Polyglycol Ester	Same as H-12/A. Has greater water resistance.
Pecogel H-1220/A	VP/Polycarbamyl Polyglycol Ester	Same as H-115/A. Has greater water resistance.
Pecogel GC-310/A	VP/Dimethylaminoethylmethacrylate/ Polycarbamyl Polyglycol Ester	Silicone based cosmetic hydrogel.
Pecogel GC-1110/A	VP/Dimethylaminoethylmethacrylate/ Polycarbamyl Polyglycol Ester	Same as GC-310/A with greater water resistance.
Pecogel S-1120/A	VP/Dimethiconylacrylate/Polycarbamyl Polyglycol Ester	Nonionic aqueous solution of inter polymers of unique silicone containing copolymers. Exhibits low solution viscosities an non-pituitous flow behavior.
Pecogel S-2120/A	VP/Dimethiconylacrylate/Polycarbamyl Polyglycol Ester	Same as S-1120/A, but has more Dimethiconylacrylate.
Pecogel HS-501/A	VP/Dimethiconylacrylate/ Polycarbamyl Polyglycol Ester	Silicone based film-former. Film is flexible and non-tacky when wet and thicker than other Hydrogels.

GIOVAREZ® & PECOREZ® Polymers

Product	INCI Name	Description
Giovarez 1800	Polyvinyl Stearyl Ether	A film forming waxy polymer. Useful for color development, gloss in lipstick and volumizer in mascara.
Giovarez AC-34M	Isododecane(and)AcrylicAcid/Isobornyl Methacrylate/IsobutylMethacrylate Copolymer	Clear liquid, dries to a continuous, glossy, hard, continuous insoluble film. Transfer resistant.
Giovarez AC-5099M	lsododecane (and) Acrylates Copolymer	Useful in non-transfer make-up, lipstick and mascara.
Giovarez ACW-372	Acrylic Resin(and) Triethylammonium Salt	Forms a clear glossy film. Ideal for water based nail enamels.
Giovarez BTB-50	Isododecane(and)Behenyl Methacrylate/ t-Butyl Methacrylate Copolymer	Glossy, clear, continuous, hard but flexible, water-insoluble film. When formulated into cosmetic products, the polymer film becomes more flexible due to oils and esters present in the formulated product which act as plasticizers for the acrylic film.
Giovarez P-0580	Polyurethane 21	Water based polyurethane
Pecorez AC-50	Butyl Acetate (and) Acrylate Copolymer	Forms a clear, hard, smooth, glossy, non-yellowing film. Ideal for nail enamels.
Pecorez AC-50E	Ethyl Acetate (and) Acrylate Copolymer	Forms a clear, hard, smooth, glossy, non-yellowing film. Ideal for nail enamels.

CATEMOL® Amidoamines

Product	INCI Name	Description
Catemol 220	Behenamidopropyl Dimethylamine	Adds body to hair and builds viscosity
Catemol C-120	Cocamidopropyl Dimethylamine	Similar to 220, lower molecular weight and improves dry-comb.
Catemol S-180	Stearamidopropyl Dimethylamine	Builds viscosity and functions as a hair conditioner
Catemol 360	Dilinoleamidopropyl Dimethylamine	Ideal for rinse-off and leave-in conditioners.

CATEMOL® Quaternaries & Cationic Organic Salts

Product	INCI Name	Description
Catemol HBC-18	Hydroxypropyl Bisstearyldimonium Chloride	Hair conditioner. Paste.
Catemol I-18-ES	lsostearamidopropyl Ethyldimonium Ethosulfate	Functions as an anti-static agent and an oil emulsifier and a viscous liquid hair conditioner.
Catemol MMM	Cocamidopropyl Trimonium Chloride	Excellent hair conditioner. Anti-stat to mitigate static flyaway. Superior viscosity thickening.
Catemol WPL	Lapyrium Chloride	Hair and skin conditioner. Substantive with excellent after feel on hands and skin.
Catemol WPC	Steapyrium Chloride	Hair and skin conditioner. Substantive with excellent after feel on hands and skin.
Catemol 1825L	Stearamidopropyl Dimethylamine Lactate	Emulsifier and viscosity builder for conditioners.
Catemol 220B	Behenamidopropyl Dimethylamine Behenate	Superior cationic conditioner and viscosity builder. Dissolves in oils upon warming and gels upon cooling.
Catemol S180-S	Stearamidopropyl Dimethylamine Stearate	Similar to Catemol 220-B.

PHOENAMID® & PHOENAMIDE®

Product	INCI Name	Description
Phoenamid 70 Extra	Cocamide MEA	Used in color hair systems at levels of 28-30% gives firm gel with no drip or running which significantly reduces dye staining on scalp.
Phoenamide LMEA	Lactamide MEA	Humectant for skin and hair dye products. Smooth, non-greasy skin feel. Adds sheen and to dull and over treated hair.

NEOPRO® Proteins & Proteins Derivatives

Product	INCI Name	Description
Neopro EW	Albumin	Helps build viscosity and boosts foam in shampoo and body washes. Restores luster to hair.
Neopro HEW	Hydrolyzed Albumin	Enzymatically hydrolyzed egg whites. Promotes shine and adds volume to hair. Builds viscosity and lather.
Neopro W-40	Hydrolyzed Wheat Protein/PEG-20 Acetate Copolymer	Substantive film forming conditioner. Repairs split ends, helps moisturize and hydrate dry hair.

$PHOENOXOL ^{\circledR} \, {\sf Alkoxylated} \, {\sf Alcohols}$

Product	INCI Name	Description
Phoenoxol BD-10P	PPG-10 Butanediol	Lightens heavy greasy feel of heavier emollients. Ideal for lotions, foundations and antiperspirants
Phoenoxol G-7	Glycereth-7	Emulsifier, water soluble emollient
Phoenoxol G-26	Glycereth-26	Emulsifier, solubilizer
Phoenoxol L-2	Laureth-2	Emulsifier
Phoenoxol L-4	Laureth-4	Emulsifier
Phoenoxol L-7	Laureth-7	Emulsifier
Phoenoxol L-9	Laureth-9	Emulsifier
Phoenoxol L-10	Laureth-10	Emulsifier
Phoenoxol L-23	Laureth-23	Emulsifier, solubilizer
Phoenoxol OL-3	Oleth-3	Emulsifier
Phoenoxol OL-5	Oleth-5	Emulsifier
Phoenoxol OL-10	Oleth-10	Emulsifier
Phoenoxol PW	Cetearyl Alcohol Polysorbate 60	Emulsifier
Phoenoxol STA-2	Steareth-2	Emulsifier
Phoenoxol STA-20	Steareth-20	Emulsifier
Phoenoxol STA-2050	Steareth-20	Emulsifier, 50% water solution
Phoenoxol T	Cetearyl Alcohol & Steareth 30 & Ceteth-10	Emulsifier

PHOENOXIDE® Alkoxylated Acids

Product	INCI Name	Description
Phoenoxide CO-5	PEG-5 Castor Oil	Emulsifier
Phoenoxide CO-25	PEG-25 Castor Oil	Fragrance solubilizer & emulsifier
Phoenoxide CO-40	PEG-40 Castor Oli	Fragrance solubilizer & emulsifier
Phoenoxide E-400	PEG-400	Humectant, solvent, emulsifier
Phoenoxide HCO-16	PEG-16 Hydrogenated Castor Oil	Emulsifier
Phoenoxide HCO-40	PEG-40 Hydrogenated Castor Oil	Superior fragrance solubilizer
Phoenoxide NP-4	Nonoxynol-4	Emulsifier
Phoenoxide NP-9	Nonoxynol-9	Emulsifier
Coscap G7-MC	Glycereth-7 Trimethyl Ether	Produces light dry, silky emolliency. Is stable over a wide pH range

PHOENATE® PEG Esters

Product	INCI Name	Description
Phoenate 150 DSA	PEG-150 Distearate	Efficient thickener for shampoos, facial cleanser & transparent body washes
Phoenate 3 DSA	PEG-3 Distearate	Forms fine, highly aesthetic pearl in shampoos and other surfactants systems
Phoenate DL-4	PEG-4 Dilaurate	Water dispersible emollient emulsifier
Phoenate DL-8	PEG-8 Dilaurate	Water dispersible oil soluble emulsifier and emollient
Phoenate DO-8	PEG-8 Dilaurate	Water dispersible oil soluble emulsifier and emollient
Phoenate GC-7	PEG-7 Glyceryl Cocoate	Emulsifier & emollient. Useful in both aqueous and anhydrous systems
Phoenate GC-30	PEG-30 Glyceryl Cocoate	Liquid emulsifier for o/w emulsions
Phoenate MO-8	PEG-8 Oleate	Emulsifier & emollient. Useful in both aqueous and anhydrous systems
Phoenate MO-12	PEG-12 Monoleate	Emulsifier & emollient. Useful in both aqueous and anhydrous systems

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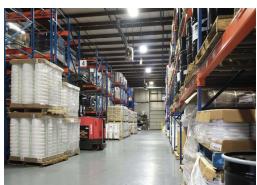
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